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# Preface

Observability is an emerging concept in the era of cloud computing. Although not a new concept, it was previously used to ensure system stability through monitoring before entering the field of computer software. Few people mentioned observability in computer science until recently.

To effectively monitor a computer system, the monitored object must generate observable metrics and other data. Monitoring the data generated by the computer is the premise for monitoring. The value and significance of monitoring will decrease if there are few observable metrics or data. For example, if we can only monitor the status of a server, we cannot observe the state of the operating system above it. If we want to monitor the application, each application must be observable.

Monitoring is an action whose prerequisite is observability. More observable data means better control of the entire system. With the development of the Internet, we are about to face more Internet device access, such as the Internet of Things and the Industrial Internet under IoT technology. As a result, more new cloud technologies and data technologies will appear, and these devices and new technologies also need to be observable and have monitoring products to manage them. Monitoring and observability will continue to evolve to ensure the success of these complex systems.

Guance is an observability platform in the cloud era launched by cloud-based technology. It was created to meet the needs of users and keep up with the historical trend.

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# Overview

Guance is a cloud service platform designed to solve the problem of cloud computing and build **full-link observability** for every complete application in the cloud native era system. Shanghai Guance Information Technology Co., Limited has been developing the product since 2018 to provide services for the vast number of **cloud-based development project teams** in China.

Compared to complex and changeable open source products such as ELK, Prometheus, Grafana, and Skywalking, Guance not only provides a monitoring product, but also offers overall observability services. This includes **integration of the underlying storage and system architecture**, as well as complete analysis and deconstruction of all the technology stacks related to cloud computing and cloud nativity. Any project team can easily use our products without investing too much energy to study or transform immature open source products.

Guance collects fees in the form of service, according to demand and quantity, and completely according to the amount of data generated by users, without hardware investment. For paying customers, we also establish a professional service team to help build **a core guarantee system based on data**.

# System Architecture

Infrastructure Monitoring Application Monitoring User Experience Link Tracking Log Monitoring Intelligent Inspection Kubernetes										
DF - Studio	DF-Admin	DF-DataProccess	NSQ	GuanceDB						
DF-Core	DF-Core-Inner	DF-Kodo-Inner	Redis	Elasticsearch						
DF-Kodo-X	Message-Desk	Function	Му	SQL						
DataWay DataKit DataKit	DataKit	Kodo (Collect-GateWay) DataWay API Zabbix Pro	methe DataKit	DataWay						

# **Product Architecture**

Unified Mo	I/Hybrid Cloud 🛛 🖕 IT nitoring	Infrastructure Monitor	ing Tracing and Performand	d Application	User Experience	e Monitoring	og Unified Storage and lanagement	• • •
				+				
			= Produ	ct Architecture				
			K85	Micro-service				
	Guance C	loud Studio			DataFlux f(x)		Guance Cloud Ac	lmin Console
Real Time Insight	Association An Analysis Det	omaly Tracking tection Cause	Future Prediction	Data Processing	Defined Function	Online Publishing	Zone Management	Authority Management
Real-time	Data Storage Engine	Real-time I	Data Processing Engir	ne An	omaly Detection	Engine	Function Er	ngine
	+			+			+	
	DataWay			DataWay			DataWay	
				1			1	
*	<b>†</b>							

Guance platform architecture is generally divided into four layers:

- Data collection layer: Guance's data collection supports various data collectors, including the official DataKit, open-source Telegraf and Prometheus, etc. Users can also develop custom collectors through WDF and DataWay API. Guance data collector can collect various data types such as cloud, infrastructure, applications, me09o-ilitrics, logs, links, Web, App, and applets, meeting the requirements of real-time and high-frequency data collection.
- **Data gateway layer:** Guance's data gateway layer is based on the self-developed DataWay gateway, which can realize the functions of data proxy reporting and data cleaning.
- Data analysis and processing layer: Guance's data analysis and processing layer is divided into three modules: Guance data analysis and insight platform, Guance data processing development platform, and Guance management background. Guance realizes real-time insight, association analysis, anomaly detection, and cause tracking of data based on a time-series data storage engine and an anomaly detection engine. Guance data processing development platform realizes the development and online publishing of data processing functions based on a real-time data processing engine and a function calculation engine.
- API Gateway layer: Guance is based on K8S micro-service architecture, which meets the needs of enterprises to develop custom data applications through the scalability provided by Inner API.

# **Product Advantages**

#### Unified Storage

Guance adopts a unified storage scheme, and the bottom layer adopts a multi-mode data lake form. We store data structures such as time series, logs, objects, links, and events in a unified way, realizing consistent, efficient, and low-latency writing through a unified Dataway interface through the Line Protocol. The self-developed query language DataFlux Query Language (DQL) carries out unified query and analysis.

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#### Powerful and Secure Data Collection Scheme

We provide a powerful data collection terminal DataKit independently developed, which integrates comprehensive data collection capabilities, including hosts (cloud hosts), containers, processes, middleware, databases, message queues, applications developed in various languages, network access performance, black box dialing tests, security inspections, etc. We are also compatible with open-source mainstream data collection schemes, such as Prometheus, Telegraf, etc. Compared with these schemes, besides collecting the corresponding index data and log data of the corresponding technical stack, the most powerful part is that it can effectively build a unified relationship between all the data, which is convenient for users to quickly find the relationship between metrics.

#### Full-link Observability

Based on powerful data collection capabilities, Guance is built for infrastructure, container, middleware, database, message queuing, application link, front-end access, system security, network access performance, providing full-link observability. Based on our standard products, when users correctly configure DataKit, they can quickly realize the complete observability construction of their own projects. At the same time, based on the Line Protocol and our scene construction ability, users can also customize the metrics they need to observe and integrate them conveniently to achieve further observability.

### User-friendly Interface

As a complete technical product oriented to observability, Guance has many technical thresholds. Compared with various open-source schemes, we strive to reduce the learning cost of using our products and improve the ease of use for users from the beginning. We reduce the configuration difficulty of users, conforming to the habits of most programmers and operation and maintenance engineers, and improve the ease

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of use and professionalism of the UI. This way, users can quickly understand the users of products and the value they bring.

#### Powerful Technology

Throughout the entire product construction process of Guance, we have accumulated a robust technical system and strength. In addition to Datakit, which has high performance and can be completely cross-platform, DataWay data gateway has powerful data processing capabilities, an independent query language DQL, a self-developed log text data batch script pipeline, a script model Scheck that can perform complete security inspections, and a powerful algorithm development platform Function.

#### Service-Based

Guance, as a DevOps-oriented platform, helps project teams build complete and observable products. In addition to providing product abilities, we also provide all-around services for our commercial customers, including a technical service team for each customer. During the usage process, we assist every user in commercial customers, whether programmers, test engineers, or operation and maintenance engineers, in effectively obtaining real benefits from the use of Guance.

# Key Technology

As a system observability platform in the cloud era, Guance includes five key technologies:

#### 1. Data storage technology based on time series and column data

Time series and column databases have a high compression ratio and superior writing and query performance, which can meet massive and high-frequency data writing requests at the data writing end and realize flexible multi-dimensional query and association analysis at the data reading end.

#### 2. Compatible with multiple text analysis engines

Support text analysis engine databases such as OpenSearch and Elasticsearch, realize the unified storage of log, object, link, event, and other data structures. Through the unified Dataway interface, it realizes the consistent, efficient, and low-delay writing through the Line Protocol. The self-developed query language Debug Query Language (DQL) carries out unified query and analysis.

#### 3. Low-intrusive bypass data collection technology

Data collection is the initial link of data analysis on the big data platform. Most data collectors of Guance realize the function of data collection based on bypass technology, which can complete the task of data collection without affecting the business system as much as possible.

#### 4. Data consistency assurance and high system reliability

On the whole link from data collection to data cleaning to data processing, Guance ensures the consistency of data based on message queue technology and multi-attempt mechanism, and makes up for the weakness of time series and column number databases. At the same time, based on k8s and Alibaba Cloud's highly available time series database products, we ensure the reliability of the entire system.

#### 5. Cloud native

The entire platform is based on cloud-native products in the selection of underlying technical modules and the overall architecture, which achieves high cost performance on the premise of ensuring the integrity of functions and the reliability of technical architecture.

# **Function Introduction**

### Data Collection

Guance has the ability of global data collection and supports the collection of various data sources, such as machine data, log data, link tracking data, business data, cloud platform data, and industry public data. The data collection of Guance has the characteristics of real-time. Besides the standard data collector DataKit developed by the government, we also support third-party data collectors such as Telegraf and Prometheus Exporter.

### DataWay

DataWay is a data gateway deployed in the user environment, which has two main functions:

- Receiving the data sent by the collector, and then reporting the data to the Guance center for storage.
- Processing the collected data and then sending it to the Guance center for storage.

### DataKit Collector

DataKit is a real-time data collector developed by the government, which supports the collection of hundreds of kinds of data, covering most data types. Configuration tutorials and instructions for all data sources can be found in the **Integration** of the Guance studio.

After collecting data, DataKit needs to send it to DataWay data gateway, and DataWay gateway will finally report the data to the Guance center for storage. DataKit needs to be deployed into the user's own IT environment and supports multiple operating systems. Users can log in to the **Integration > DataKit** page of the Guance studio to view and use the DataKit installation instructions.

LIIIUX	Windows	🎼 MacOS	Kubernetes	🔕 Kubernetes (Helm)	Offline Install	DataKit U	pgrade	
stall on I	Linux							
requisites:	Linux 2.6.23 or highe	r, support ARM, x86	6 full architecture installa	ition				
Select	t DataWay data ga	teway address	0					
Op	enWay https://o	penway quance cor	n			~		
		pennaj.gaa.ee.ee.						
Denlo	v scrint installatio	n automatically	0					
Depioj	y sonpe motunate							
DCpioj	DATAWAY="https:/	/openway.guance	e.com?token=tkr_		)" bash −c "\$(cu	irl -L		
DK_E http	DATAWAY="https:/ ps://static.guan	/openway.guanco ce.com/datakit,	e.com?token=tkr_ /install.sh)"		o" bash −c "\$(cu	irl —L		
DK_E http	DATAWAY="https:/ ps://static.guan	/openway.guance ce.com/datakit,	e.com?token=tkr_ /install.sh)"		⊃" bash -c "\$(cu	irl -L		
DK_E http	DATAWAY="https:/ ps://static.guan pu need to define so arated by Space	/openway.guanco ce.com/datakit, me DataKit config	e.com?token=tkr_ /install.sh)" uration during the insta	illation phase, add environmen	)" bash −c "\$(cr t variables in the installati	on command, m	ultiple environment variables are	[2] View more variables
DK_L http fryosepi C	DATAWAY="https:/ ps://static.guan bu need to define so arated by Space	/openway.guancc ce.com/datakit, me DataKit config	e.com?token=tkr_ /install.sh)" uration during the insta	Illation phase, add environmen	י" bash –c "\$(כנ t variables in the installati	irl –L on command, m	ultiple environment variables are	<sup>[2]</sup> View more variables

DataKit supports remote administration through DCA (DataKit Control APP). DCA facilitates the management of installed and configured collectors, and supports functions such as viewing collector operation, collector configuration management, Pipeline management, blacklist management and collector document help.

To view the installation steps of DCA in the Guance workspace, click **Integration** > **DCA**.

Integrations DataKit Extension DCA Mobile
DCA is the DataKit online management platform that supports viewing DataKit operation and unified management of configuring collectors, blacklists, and pipelines.
Offline Installation
Only Docker image installation is currently supported
1 Download mirror
Download the DCA image via docker pull
docker pull pubrepo.guance.com/tools/dca
Create and start the DCA container with the command docker run. The container default exposed access port is 80.
docker run -dname dca -p 8000:80 pubrepo.guance.com/tools/dca
<ul> <li>-d # Means running in the background</li> </ul>
name # Name of the created container
• -p 8000:80 # Port mapping, i.e. mapping local port 8000 to port 80 inside the container
After execution, you can use your browser to access to initialize the operation interface
Additional supported installation variables are as follows, and can be custom configured, separate multiple environment variables with spaces
DCA_INNER_HOST: The auth API address of the Guance, the default value is https://auth-api.guance.com
DCA_FRONT_HOST: The console API address of the Guance, the default value is https://console-api.guance.com
DCA_LOG_LEVEL: Log level, take the value of NONE   DEBUG   INFO   WARN   ERROR, if you do not need to record logs, you can set to NONE
DCA_LOG_ENABLE_STDOUT: default is false, logs will be output to a file, located under /usr/src/dca/logs. If you need to write logs to stdout, you can set it to true
Example:
docker run -dname dca -p 8000:80 -e DCA_LOG_ENABLE_STDOUT=true -e DCA_LOG_LEVEL=WARN pubrepo.guance.com/tools/dca

### Scenes

In Guance, users can build different insight scene instrument versions, take notes, and customize explorers according to different perspectives to meet the scene requirements and data analysis of different businesses.

### Dashboards

In **Scenes**, users can create multiple dashboards to build data insight scenarios. Users can build different dashboards according to different business requirements, such as infrastructure and application monitoring, Nginx, JVM, Docker monitoring, etc.

- Support exporting dashboards as reports and sending them to relevant personnel via email on a scheduled basis based on different time dimensions.
- Support modifying, exporting, and deleting existing dashboards.
- Support filtering dashboards through Favorites, Import Projects, Creations, and Frequently Read.
- Support grouping and filtering dashboards using tags.

- Support setting viewing permissions for dashboards as public or private (only visible to oneself).
- Support carousel display of multiple related business dashboards.
- Support creating Issues, saving snapshots, and saving inner views for the current dashboard.
- Support switching to view chart information for authorized workspaces.
- Support for setting workspace level home Dashboard

shboards Service Manag		ment Maw Notes Explorers Inner View	🕄 Regular Report	Carousel List
		Q. Search dashboard name		
88 All Dashboards	538	Dashboard Name	Last Modified Time	Operate
Screen		🗌 🙆 Kubernetes Monitor View 🔒	2023/10/23 11:10	🞯 ☆ 🗄
S Frequently read	0	🗌 📚 DataKit Monitor View 🔒 Host	2023/10/23 11:10	🞯 ☆ :
☆ Favorites	0	Redis Monitor View	2023/10/23 11:09	🥶 🏠 🗄
Creations	18	CPU Monitor View 🔒 Host	2023/10/23 11:08	🞯 🏠 🗄
Q₂ Just me	12	Disk Monitor View 🔒 Host	2023/10/23 11:08	🥶 🏠 🗄
	74	Pod Overview 6	2023/10/23 11:08	🞯 ☆ :
2 importa	1.7	Linux Host Overview	2023/10/23 11:06	🞯 🏠 :

### Create Dashboards

After entering **Scenes**, click **Create** in **Dashboards** to select the dashboard template you want to create. You can create a blank dashboard and customize the charts in the dashboard, import custom view templates, or select a inner template from the template library.

- Blank Dashboard: Create a blank dashboard and subsequently customize the charts in the dashboard.
- Custom Templates: Import custom view templates.
- Inner template library: Include system provided view templates and user-defined created view templates, no configuration required, ready to use.

Dashboa	rds > Create Dasht	oard	
	+ Create		-> Import template
Template	library		
System	View User View	Q Please ent	er Template name
🔶 AF	M Overview		
🔶 Gi	tlab CI Overview		
🈝 Je	nkins CI Overview		
🏟 Co	ontainer Overview		
🚺 Lir	nux Host Overview		
🗯 Ma	ac Host Overview		
Po	d Overview		
🧞 Pr	ocess Overview		
T Wi	ndows Host Overview		
🕜 Mi	niapp Overview		
💻 We	eb Overview		
🚺 Se	curity Check Overview	1	

## Regular Report

Regular report supports exporting dashboards as reports in different forms, and sending them to relevant personnel on a regular basis according to different time dimensions such as daily, weekly, and monthly.

To create a scheduled report, follow these steps:

- Go to the Scenes section.
- Click on Dashboards.
- Select the desired dashboard.
- Click on Regular report.

			Q Search		
Report Name	Dashboard Name	Report Cycle	Notification recipients	Operate	
CPU Monitoring	CPU Monitor View	By Week	<b>(1)</b>	🞯 💽 🖉 🗊	
Kubernetes Monitor V	Kubernetes Monitor View	Once	<b>(1)</b>	🞯 <b>()</b> 🖉 🗇	

## Service Management

Service Management supports accessing and viewing key information from all services within the current workspace from a global perspective. By linking with repositories and documents, it allows for quickly identifying the code location and problem-solving solutions for urgent issues.

After entering Scenes, click on Service Management > Add Service List to create a new service. Once created, it can be viewed from three perspectives: service inventory list, performance list, and service topology diagram.

#### 1. Service Inventory

ashboards Service Manageme	ent New Notes Explorers	s Inner View				C	Add Service L
E × Q Search Service	ce						
All ~	Service List Performance	total 6 services (Autodiscover last u	odate time: 2023/10/23	11:00:13)			
> Create Type	Service	Application	Team	Contact Info.	. Repositor	Do	Operate
> Team	☆ Springboot-server	-	-	🗳 🔮 🖼	es (0)	( <del>0)</del>	S' SYS
> Service Type	☆ ■ demo-k8s-log	-	-	🗳 🔮 🖼	(0)	(O)	STSYS
	☆ Se browser	-	-	🖾 😵 🏪	(O)	(O)	STSYS
	☆ S mysqli	-	最佳	🖴 😒 🖶	(O)	<b>(1)</b>	STOCY
	☆ ∎ zabbix	-	-	🖾 🕫 🆶	(O)	(O)	STSYS
	☆ 8ª ruovi-08-auth	2	最佳	🖬 😒 🌞	<ul><li>(0)</li></ul>	( <u>0</u> )	GOCY

Click on any service to view its related information.

Env · ·	Version *	Resource Ca	II Log Trac	e	minutes	\$ <b>1 € 11 </b> ▶ 30s ∂ ,
Service span co 187	Service error s	sp Service	e log N/A	Service error log	Abnormal event	Unrecovered ev N/A
Sevice requests	10 seconds ~ 18:36 18:38 18:40	Request respons	10 seconds V	Request response time d	P90	10 seconds ∨ P99
Error requests (	10 seconds ~	400 µs 200 µs 0 ns 18:28 18:30 18:32 Avg P90 Max	18:34 18:36 18:38 18:40 P99	50 μs 177 μs 3 <b>Metric</b> P50 P75 P90	334.27 µs 476.4 µs 636.3 µ	με 796.2 με 956.1 με Value 148 με 177 με 336.4 με

#### 2. Performance

*		st 15m Past 15 minutes	Add Service L	Notes Explorers Inner View	Service Management NEW N	Ser	ards	ashbi
					Q Search Service	5, ×	r C	Ξ
				st Performance total 2 services	Service List	e	vice Type	> Se
ne P99 Re	P75 Response Time	Average Response Time	Average Number of Requests	vice	Servic	nt	/ironment	> En
46.64	46.64 ms	46.27 ms	0.02 req/s	) zabbix	☆ <b> </b> ⊕ z		sion	> Ve
1.04 m	179 µs	201.24 µs	0.26 req/s	t mysqli	☆ <b>I</b> ≣ r		ject	> Pn
	179 µs	201.24 µs	0.26 req/s	zabbix ; mysqli	다   ⊕ z ☆   ≘ r		oject	> Pn

#### 3. Service Map

Dashboards	Service Management NEW	Notes	Explorers	Inner View		15m	Past 15 minutes		*	9
= r 6	V Q Search				Ŷ	Fi	II Requests			~
total 2 services							Distinguish between er	nvironment and ve	ersion 🔿	
									-0- D	Desc
				zabbix						
				mysqli						
							Requests		<b>\$</b> >>	
							0.01	0.11	0.21	
								5362103	8.000	

## Notes

In **Scenes**, you can create multiple notes for summarizing reports, storing abnormal data analysis, and helping with problem tracing, locating, and solving.

- Supports inserting real-time visual charts for data analysis, and inserting text documents for explanations, combining charts and documents for data analysis and summary reports.
- Supports setting viewing permissions for notes as public or private, by setting public notes to be shared with all members in the workspace.

- Supports modifying and deleting existing notes.
- Supports filtering notes through "My Favorites" and "My Creations".

Dashboards Se	rvice Manager	ment New Notes Exp	lorers Inner Vie	N			
⑦ Create		Q. Search note name					Default ~
8 All Notes	21	How to use notes		Review of the meeting		Operations and N	aintenance Report 2023
☆ Favorites	0	10/23/2023		10/23/2023		10/23/2023	
A Creations	4	GCY	☆ :	CO	☆ :	GCY	☆ :

### **Create Notes**

After entering the Scenes, click Create in Notes to add notes for editing.

ebooks > Review	of the meeting	Public > Done :	15m Past 15 minutes	44 11
	Review of the meeting			
	This meeting will focus on the problems of the last ma	function that occurred.		
	Create Chart		5 seconds ~	
	Add New Chart:	chart Bar chart	11:32 11:34 11:36	

## Explorers

In **Scenes**, you can quickly build multiple custom explorers in collaboration with space members to meet specific viewing needs.

- Supports modifying, exporting, and deleting existing dashboards.
- Supports adding the current explorer to infrastructure, metrics, logs, application performance monitoring, real user monitoring, synthetic tests, security check, and CI visibility navigation menus.

- Supports dashboard filtering through "My Favorites," "Imported Projects," "My Creations," and "Frequently Read."
- Supports setting viewing permissions for explorers as public or private.
- Supports grouping and filtering explorers using tags.
- Supports creating Issues and saving snapshots for the current explorer.
- Supports switching explorer information for authorized workspaces.

	Q Search explorer name			
23	Explorer Name	Data Type	Last Modified Time	Operate
	Nginx	Log	10/23 11:40	🥶 🏠
0	MySQL	Log	10/23 11:39	💿 🏠
0	cicd job	Log	10/23 11:39	💿 🟠
5	cicd pipeline	Log	10/23 11:39	💿 🏠
0	Kubernetes Event	Log	10/23 11:38	💿 🖒
	Redis	Log	10/23 11:38	in the
	23 0 0 5 0	23  Explorer Name Nginx MySQL Cicd job Cicd pipeline Kubernetes Event Bedis	Explorer Name     Data Type       Nginx     Log       MySQL     Log       cicd job     Log       cicd pipeline     Log       Kubernetes Event     Log       Redis     Log	Explorer Name         Data Type         Last Modified Time           Nginx         Log         10/23 11:40           MySQL         Log         10/23 11:39           cicd job         Log         10/23 11:39           cicd pipeline         Log         10/23 11:39           Kubernetes Event         Log         10/23 11:39           Bedis         Log         10/23 11:39

### Create Explorers

After entering Scenes, click Create in Explorers and complete the custom explorer

name and label to create a new explorer.

- Blank Explorer: Create a blank explorer that can be customized later.
- Custom Template: Import a custom explorer template for use.
- Inner Explorer Templates: explorer templates provided by the system, ready to use without any configuration.

Explorer > Create Explorer	
+ Create	→ Import template
Inner custom template	
Q Please enter Template name	
MySOI	
Nyoqe	

# Inner View

Inner view displays all view templates of the current workspace, including system view and user view. You can view and edit it in the workspace **Scenes > Inner View**.

- Support creating dashboards in the scene selection with inner view template library
- Support exporting to dashboard from inner views
- Support manually binding inner views in the explorer

ashboards Service Manageme	nt Network Notes Explorers	Inner View		
System view User view Q S	earch			
Linux	ú	kubernetes	$\overline{\mathbf{e}}$	Microsoft
Linux Host Overview	Mac Host Overview	Pod Overview	Process Overview	Windows Host Overview
Ø		Service2 Service2 Service3		<b>∢EROSPIK</b> <del>E</del>
Miniapp Overview	Web Overview	APM Overview	ActiveMQ Monitor View	Aerospike Namespace Over
<pre><b>∢EROSPIKE</b></pre>	APACHE	Amazon ELB	Amazon EC2	Amazon ELB
Aerospike Monitoring Stack	Apache Monitor View	AWS Application ELB Monit	AWS EC2 Monitor View	AWS Network ELB Monitor

# View Variable

Add view variables in the dashboard and enter the view variable configuration page. After the view variable configuration is completed, use view variables in the chart to complete the dynamic screening of the chart.

- View variables support multiple selections, and multiple default values are supported during configuration;
- The data sources supported by view variables include DQL, PromQL, Metrics, Basic Object, Custom Object, Log, Application Performance, User Access, Security Check, and Custom.

	Data Source		Variable Queries				Default Value @	Variable Name @	Display Name @	Hidden @	Operate
:	DQL	~	show_tag_value(from=['d	lisk'], kej	/in=['host'])[5m]	11	Please select 🗸 🗸	host	Host Name		11 亩
	Metric	~	Measurment	~		~	Please select 🗸 👻	Variable Name	Display Name		11 面
	Basic Obj	~		~	Attributes / Tags	~	Please select 🛛 🐱	Variable Name	Display Name		11 面
	Log	~	Source	Ý	Property	~	Please select 🗸 👻	Variable Name	Display Name		11 団
	APM	~	Property			~	Please select 🗸 👻	Variable Name	Display Name		11 亩
	RUM	~	Data Classification	~	Property	~	Please select 🗸 🗸	Variable Name	Display Name		11 団
							+Add View Variables				

Object view variables support attribute mapping function. After setting according to the following steps, you can view the set variable names in the view and display them in the chart with the display format of **Mapped Field (Original Field)**.

- First define a view variable based on the object class fields
- Select the fields to be mapped for the object category in **Object Mapping**
- Group the mapped labels in the Chart Query
- Enable Field Mapping in Settings

Dashboards > Linux Host Overview Defau	t v Add chart D Add chart	minutes 🖈 🕶 11 🕨 30s 😌
= Host Name i 🖌 🖌		
<b>cpu load</b> 0.6 0.4 0.2 0.2 0 13:18 13:20 13:22 13:24 13:26 13:28 13:30	<b>cpu usage</b> 30 % 25 % 15 % 5 % 13.18 13.20 13.22 13.24 13.26 13.28 13.30	memory used           7.46 08           5.59 08           3.73 08           1.86 08           08           13.18         13.20           13.22         13.24         13.26         13.30
memory usage	disk read&write bytes/s	disk read&write time/s
disk used 46.57 GB 37.25 GB 27.24 GB 9.21 GB 9.21 GB 0 B 13.18 13.20 13.22 13.24 13.26 13.28 13.30	network traffic	network packets           15 ppe 12 ppe 9 ppe 9 ppe 9 ppe 13 ppe 13 ppe           13 ppe 13 ppe           13 ppe

# Visual Chart

On the chart adding page, you can choose chart type, query method and chart setting.

• Chart query methods include simple query, expression query, PromQL query and DQL query.

 Chart types include time sequence chart, overview chart, pie chart, histogram, SLO, ranking list, dashboard, scatter chart, bubble chart, table chart, rectangular tree chart, funnel chart, China map, world map, honeycomb chart, log flow chart, object list chart, alarm statistical chart, text, video, picture, command panel and IFrame. Users can select the corresponding chart presentation mode according to the content they need to query and support grouping and combination chart presentation.

### Chart Query

Visual charts in the dashboard support three types of queries: simple queries, expression queries and DQL queries. A chart supports multiple queries at the same time. Chart query supports selecting different labels for grouping display, selecting multiple labels for data filtering at the same time, adding functions for data collection, and modifying aliases for queries.

#### 1. Simple query

Different data sources can be selected for query, and chart display can be adjusted through functions, grouping, labels, etc. Data sources include metrics, logs, basic objects, custom objects, events, application performance, user access, security check, network, Profile, etc.

- A chart supports multiple query statements at the same time.
- Support grouping queries by selecting multiple tags.
- Support adding functions to query for data calculation.
- Support modifying aliases for queries.
- Support hiding a query result on the chart.
- Support presetting query field values for queries.



#### 2. DQL query

DQL is a language specially used for Guance data query. You can manually enter DQL for query according to DQL syntax and click <> between simple query and DQL query.

cpu usage	Le Timeseries V 15m Past 15 minutes	S	44 11 >> X
5% 4% 3%	MMW	Basic Setting	Advanced Setting
2 % V V		Title     Title     cpu usage	
15:14         15:16         15:19         15:20         15:22         15:24           Query         JSON         Link         Event Association	15:26 15:28	Description @ Please enter	
<pre>H::'cpu':(AVG('usage_system') AS 'system') { 'host' = '#{host}' } Display only 20</pre>	(小 〇 〇 〇 〇	✓ Unit Global	Custom
+ Add Query + Add Expression + Add PromQL Query ③		system v F	Percent 0 - 100 V
		Color	Modify Cancel

#### 3. PromQL query

PromQL is a kind of query language used in Prometheus to query its time series data

cpu usage	∠ Timeseries ∨ 15m Past 15 minut	les	<b>4   </b> ▶ ×
5 %		Basic Setting	Advanced Setting
4% Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	MMM	Line chart	rt Bar chart
man and a handland handland	<i>—</i>	<ul> <li>▼ Title</li> </ul>	
Mithe Bos Mith Manag	Am	Title cou usage	
0 % 15:18 15:22 15:24           Query         JSON         Link         Event Association	15:26 15:28	Description @	
∷ usage_system	☐ ● Ⅲ	- Unit	
Display only 20 v for each query		Global	Custom
+ Add Query + Add Expression + Add PromQL Query ③		system v P + Add unit	Vercent 0 - 100 🗸 🗐
		• Color	
			Modify Cancel

#### 4. Expression

Add expression evaluation on the basis of simple query and DQL query.

cpu usage	l∠ Timeseries ∨ 15m Pa	st 15 minutes	44 <mark>11</mark> >> ×
12		Basic Setting	Advanced Setting
* MMMMMMMM		Line chart	Area chart Bar chart
2		✓ Title Title	۲
0		cpu usage	
10.10 10.16 10.20 10.22 10.24 10.20	10.20 10.31	Description @	
Query JSON Link Event Association		Please enter	
III 100-A +Add Query	AS 🗇 🛛	<b>m</b>	
A Metric v cpu v usage idle v Avg v by label v 7	7 fx 🖉 🖓	→ Unit	
		Global	Custom
Display only 20 v for each query			
+ Add Query + Add Expression + Add PromQL Query ③		system	<ul> <li>V Percent 0 - 100 ~ 団</li> </ul>
		+ Add unit	
		+ Color	
			Modify Cancel

#### 5. Datasource

Filtering, searching, aggregating and analyzing data attributes stored in the database.



# JSON

When editing charts, each correct query corresponds to a JSON text, support copy and paste. It supports editing JSON and linking with query/setting, checking the input JSON and displaying error message if there is any error.

cpu usage	∠ Timeseries ∨ 15m Past 15 minu	tes	<b>44    </b> ▶ ×
12		Basic Setting	Advanced Setting
MMMMMMMM	Mary	Line chart	rt Bar chart
2		<ul> <li>▼ Title</li> <li>Title</li> </ul>	
0		cpu usage	
15:18 15:20 15:22 15:24 15:26	15:28 15:30		
Query JSON Link Event Association		Description @	
K	- 0		
<pre>"name": "cpu usage",     "queries": [     {         "datasource": "dataflux",         "qtype": "dql",         "gtype": "dql",</pre>	0	- Unit Global	Custom
<pre>udury : "eval(100-A, A=\"M::`cpu`:(AVG(`usage_idle`))\")", "funcList": [] }, "checked": true, "uuid": "016a5710-7176-11ee-b2d8-9d8940eb7bf7",</pre>		system ~ F + Add unit	Percent 0 - 100 V
"name": "", "color": "", "type": "sequence", "unit": ""		Color	

# Links

Links can realize jumping from the current chart to the target page. It supports adding internal links and external links of the platform and modifying the corresponding

variable values in the links through template variables to transfer data information to complete data linkage.

spu usage	🗠 Times	eries ~	15m Past 15 mir	nutes 📢 🔢 🕨
2 8 8 9	M	$\sim$	~~~	Basic Setting     Advanced Setting       Image: Setting     Image: Setting
	16 15-00	15.02		- Title Cpu usage
Query JSON Link Event Association	10.20	10.34	<ul> <li>Using help</li> </ul>	Description  Please enter
Link List	Name	Show	Add Link     Operate	- Unit
	View Related logs		<u>0</u> 0	Global Custom
Ø /objectadmin/docker_containers?routerTabActive=ObjectadminDocker&time=#{TR}&query=	View Related containers		<u>2</u> 0	system v Percent 0 - 100 v
/objectadmin/host_processes?routerTabActive=ObjectadminProcesses&time=#{TR}&query	View Related processes		<u>e</u> 0	+ Add unit
$\label{eq:rescaled} \overline{\mathcal{P}}  / tracing/link/all?time=\#\{TR\}\&query=\#\{T\}$	View Related Trace		<u>e</u> 0	+ Color
				Modify Cance

#### Custom Link

Guance supports adding custom links to charts. On the basis of text box input, the final chart association link address is generated through free combination of parameter configuration to view relevant data. After adding custom links, it will be displayed by default, and relevant links can be displayed directly in chart preview.

Add Link		×	The link can help you jump from the current chart to the target page and transfer the data information thr ough the template variables to complete the data lin				
log		3/256	kage. Observation Cloud supports 3 types of templa te variables, namely tag variables, time variables and view variables, just enter the template variables after				
* Link URL		Open in new page ∽	the URL of the link.				
/logIndi/log/all?time=#{T	R}&query=#{T}	h	for example: https://console.guance.com/logIndi/lo g?time=#{TR}&query=host:#{T.host} env:#{V.env}				
time	#{TR}	<del>.</del>	Learn more »				
query	#{T}	Đ	Template variables (Click variable to copy)				
+ Add params		Confirm Cancel	#(TR)       #(timestamp.start)       #(timestamp.end)         View variable       #(V)       #(Vhost)				

## **Event Association**

Event association can detect whether there are related events during data fluctuation while viewing trends, which helps to locate problems. In the sequence chart event association, the abnormal events related to the selected fields are matched by adding filter fields. After the addition is completed, if there are event records, shadow highlights will be marked on the sequence chart; Click to view the exception events related to the selected field.

cpu usage 🗠 Timeseries 🗸 15m Past 15 m	nutes 📢 🔢 🔛
12 % 10 % 8 % 6 % 2022/10/23 15:26:41	Basic Setting     Advanced Setting       Image: Setting of the set of the
4 % 2 % 0 % 15.22 15.24 15.26 15.28 15.30 15.32 15.34 15.38	Title      Tub      Title      Description
Add filter to matching event           bott/2/u61/maleaster/bit/share         Disconsider	Please enter
Total matches to 13 events	Global Custom 100 - A V Percent 0 - 100 V
	+ Add unit  Color  Add solven Modify Concel

# Chart Analysis

Guance suppors in the analysis mode of time series charts, through similar trend analysis, root cause analysis, drill-down analysis, further analyze and troubleshoot indicator data, quickly discover problems.

Note: Currently, root cause analysis supports two metrics, disk usage and memory usage.

milar Trends Analysis	Root Cause Analysis				5m	2023/10/23 15:2	6:51 ~ 2023/10/23 15:31:59	44 PP	
35 %		2023/10/23 15:28:10 ~ 20	023/10/23 15:29:13						
30 %									
30 10									
25 %									
20 %		4							
15 %		<b>P</b>	Щ.						
10 %									
5 %									
0 %									
15:27	15:27:30 15:28	15:28:30	15:29	15:29:30	15:30	15:30:30	15:31 1	5:31:30	
vent Overview									
Detection Object: 12	f5z								
Abnormal Description: A	memory usage abnormality was for	ound on host iz	5z when	inspecting the memo	ry usage of hosts in the	current workspace.			
		CONTRACTOR OF MERICAN		M204303000000000000000000000000000000000					

## Timeseries

Timeseries are commonly used to show changes in data over equal time intervals, and can also be used to analyze the effects and interactions among multiple groups of metric data. Chart types supported include line charts, bar charts, and area charts.

20 Usage	🗠 Timeseries 🛛 🗸	15m Past 15 minu	ites	∢
M			Basic Setting	Advanced Setting
WWWWW		$\sim\sim$	Line chart	Bar chart
s.		N.	✓ Title Title	•
* 15:26 15:28 15:30 15:32 15:34 CPU Usage	15:36 15:	38	CPU Usage	
			Description @	
Query JSON Link Event Association			Please enter	
100-A +Add Query	AS × CPU Usage	AS 🗇 🐵 🛱		
A Metric V cpu V usage_idle V Avg V by label	∨ זγ fx		<ul> <li>✓ Unit</li> </ul>	
Display only 20 v for each query			Global	Custom
+ Add Query + Add Expression + Add PromOL Query ①			CPU Usage v Pe	ercent 0 - 100 🗸 ți
			+ Add unit	

#### 1. Line chart

#### 2. Area chart

CPU Usage	🗠 Timeseries 🗸 🛛 15m Past 15 minu	ites	44 <b>11</b> 🕪 🛛 🛛
10 % 8 % 6 %	~~~~~~	Basic Setting	Advanced Setting
4 % 2 % 5 % 15.26 15.28 15.30 15.32 15.34 15.36 CPU Usane	15:38 15:40	Title     Title     CPU Usage	
Query         JSON         Link         Event Association           II         100-A         + Add Query         AS >	CPU Usage AS 🗇 🐵 🗒	Description @ Please enter	
A     Metric     v     cpu     v     usage_Idle     v     Avg     v     by     label     v     Y       Display only     20     v     for each query	fx 🗘 🗇 🗊	• Unit Global	Custom
+ Add Query + Add Expression + Add PromOL Query ③		CPU Usage ~ + Add unit	Percent 0 - 100 🗸 🗒
		• Color	Modify Cancel





# Query Value

The query value can clearly show the result value of a metric. Users can set thresholds, colors and mapping values. At the same time, it supports mixed display with line charts, which helps users know the metric trend while querying the current metric value.

Memory	98 Query Value 🗸	15m 2023/	10/23 15:13:47 ~ 2023/10/23 15:28:47	~ • • •		
			Basic Setting	Advanced Setting		
			Memory			
	_		Description @			
	h					
	N		- Unit			
			Global	Custom		
Query JSON Link			Data Size b	~		
Metric     mem     active     Aug     by     label     Y     fx       # To Expression     # Switch To PromQL		4	Color     Font color      Background color			
			Data Accuracy     Decimals			
			2 decimals	~		
			Thousands separator			
				Modify Cancel		

# Pie Chart

Pie charts are generally suitable for showing the comparison of data groups. Guance supports three pie chart style settings:

### 1. Pie chart

Show the comparison of data groupings and is more commonly used in sceces with fewer sample metrics.

Disk Usage	() Pie chart $\checkmark$ 15m Past 15 minu	tes 📢 🔢 🏎 🛛
		Basic Setting Advanced Setting
		Pie chart Doughnut chart Rose diagram
Name avg(used)	Value 10.35 Gb (51.43%)	Disk Usage
avg(free)	9.77 Gb (48.57%)	Description @
Query JSON Link		Please enter
II Metric V disk V used V Avg	y by label ∨ \$\$ fx AS  () € ⊕	- Unit
iii Metric V disk V free V Avg	✓ by label ✓ Y fx AS (/) □ ⊕ ⊕	Global Custom
Display only Top      Z0     Add Query + Add Expression + Add PromQL Query (2)	✓ for each query	Data Size b v  Color  + Add colors
		Modify Cancel

### 2. Doughnut chart

Disk Usage	(9 Pie chart v 15m Past 15 minutes 4 11 >> ×
Name	Basic Setting     Advanced Setting       Pie chart     Doughnut chart       • Title     • Title
avglused) avg(tree)	10.35 Gb (51.43%) Disk Usage 9.77 Gb (48.57%) Description @
Code y Joon Link	Please enter
Iii     Metric     v     disk     v     used     v     Avg     v     by     label     v	ix AS ψ □ ∞ ⊕ - Unit
Image: Metric v disk v free     Avg v by label v	X AS      Custom
Display only Top V 20 V for each query	Data Size b v
+ Add Query + Add Expression + Add PromQL Query	Color     + Add colors
	Modify Cancel

It is more suitable to reflect the proportion of each part of multiple sample metrics.

#### 3. Rose chart

The size of the arc radius indicates the size of the data, which is suitable for reflecting scenes with too many classifications and scenes with similar numerical values.

Disk	Usage										() Pie chart ~	15m Past 1	5 minutes			e II 🍉 🛛 🗙
													1	Basic Setting	Adv	anced Setting
													- Data	a Display		
													Value	e Select 🗸	%	display other
	Name											v	• Tim Lock	<b>e</b> time		
	avg(used)											10.35 Gb (51.4	-3%)			
	avg(free)			_			_					9.77 Gb (48.5	7%) Time	slice Ø		
	Query JS0	ON	Link													
	Matria diak		unod		Aug		Inhal			fu	46		> Fiel	d Mapping 🛛		
	Metric V UISK	č	useu		Avg	~ D	y	Ť	4	IA	AS	<>> □ ◎ □	J → Dat	a Authorize 🙆		
	Metric ~ disk	~	free	~	Avg	~ b	y label	~	Ŷ	fx	AS	() () () ()	Ì			
+	Display only	Top ression + Ad	> 20	0		~	for each	n query								
															Modi	fy Cancel

# Bar Chart

Bar chart is generally applicable to realizing the changes in data over a period of time and the comparison between variables, supporting two chart styles.

### 1. Bar Chart



### 2. Bar Chart



# Histogram

Histogram, also known as quality distribution chart, is a common statistical chart. Generally, the horizontal axis represents the data interval and the vertical axis



represents the distribution. The shape of the chart is similar to that of a histogram. The higher the column, the greater the number of columns falling in the interval.

# SLO

SLO can directly select the set monitoring SLO for SLO data display.

SLO	15m Past 15 min	ites	4 II 🕨 🗡
Past 15 minutes 100 % Burndown: 0 minutes Budget: less than 1 minute Target: 99 % Year SLA: 100 %		Basic Setting	Advanced Setting
Query         JSON         Link           SLO List         Ruoyi08-System         ✓		Burndown <table-cell> Budget</table-cell>	Vear SLA
			Modify Cancel

# Top List

The Top List is a reflection of the objective strength of a related similar thing, which simply shows the ascending and descending order of Top N or Bottom N.

op List	1≓ Top list ∨ 18	6m Past 15 min	utes	<b>44   </b> >>
izhr 5z			Basic Setting	Advanced Setting
	1		- Title	
ihai			Title	
	0.9		Top List	
0.43			Description @	
lufqZ			Please enter	
0.06				
0			✓ Unit	
Query JSON Link			Global	Custom
Metric ~ cpu ~ load5s ~ Avg ~ by host ×	∽ Ÿ fx			
Show Top V 10 V results			* Color	
			Chart color	
to Expression				
			- Data Accuracy	
			Decimals	
			2 decimals	~
				Modify Canc

# Gauge

Gauge can clearly show the range of metric data values.

1. Minimum value: Set the minimum value of the instrument panel, i.e., the leftmost value in the chart;

2. Maximum value: Set the maximum value of the instrument panel, i.e., the sum of the leftmost and rightmost values in the chart;

3. egmentation threshold: Set the segmentation threshold value and dial color for numerical value. Click + and - to increase and delete corresponding thresholds;

Dashboard	⑦ Gauge ∨	15m Past 15 minu	ites		<b>44    </b> ≫	×
			Basic • Title Title	Setting	Advanced Sett	ting
			Dashboard Description  Please enter			
Query JSON Link			Segmentation Threshold     max min     100 0			
Metric       v       mem       v       Lucation       by       Lubel       V       fx         et       To Expression       et       Switch To PromQL	AS	Result <= Result <= Result <=	20 80 100			
			- Unit	Global	Custom	
					Modify Ca	ancel
### Scatter Plot

Scatter plot shows the general trend of dependent variable changing with independent variable, from which the trend can be fitted with an appropriate function for empirical distribution, and then the functional relationship between variables can be found. It can be used to observe the distribution and aggregation of data.



### Bubble

Bubble can be used to show the relationship between three variables. Similar to the scatter chart, it is divided into horizontal and vertical axes, and variables representing size are added for comparison. It represents the general trend of dependent variables changing with independent variables, from which the appropriate function can be selected to fit the empirical distribution, and then the functional relationship between variables can be found. It can be used to observe the distribution and aggregation of data.

ubble		% Bubble ∨	15m Past 15 min	utes	44 11 >>>
				Basic Setting  Title	Advanced Setting
				Title Bubble	
				Description @ Please enter	
•••	2 3	4		- Unit	
Query JSON Link				Global	Custom
x Metric ~ cpu ~ us	age_system v Avg v by host ×	~ \\$\frac{1}{2} fx	AS > :	Select	~
y Metric ~ cpu ~ us	age_user > Avg > by host ×	~ 𝔅 fx	AS	- Color	
size Metric ~ cpu ~	usage_total ~ Avg ~ by host ×	✓ Y fx	AS >	+ Add colors	
				<ul> <li>Alias</li> <li>+ Add alias</li> </ul>	
					Modify Cano

## Table

Table has the characteristics of visually displaying the attributes of statistical information and reflecting the relationship between data. Users can set the jump target page of the current chart through links and transmit data information through template variables to complete data linkage.图表类型支持分组和时序两种类型。

Table			Table ~ 15m Past 15 minu	tes 📢 🔢 🕨	×
host	avg(usage_system)	avg(usage_user)	avg(usage_total)	Basic Setting Advanced Setting	
S	4.26	15.91	20.53		
i f5z	1.69	8.77	10.59		
a	0.5	2.22	3.02	Group table Time table	
a )1	0.35	0.91	1.31		
i ıqZ	0.1	1.96	2.08		
Query JSON	Link			Title     Title     Table	
🗄 Metric 🗸 cpu	✓ usage_system ∨ Avg	✓ by host × ✓	AS ⟨/> ① ⊕ ₪	Description @	
ম্ fx				Please enter	
II Metric ~ cpu	✓ usage_user ∨ Avg	✓ by host × ✓	AS	← Unit	
প fx				Global Custom	
II Metric ~ cpu	✓ usage_total ✓ Avg	✓ by host × ✓	AS  () ① ④ 箇		
भ fx				Select	1
Sort by usage_system	~ Top ~	20 ~		- Alias	
+ Add Query + Add Expression	+ Add PromQL Query ③			+ Add alias	
				Modify Cancel	

## Tree Map



Tree map is used to show the visualization of the proportion distribution of metric data under different groups.

## Funnel

Funnel is generally applicable to process analysis with standardization, long cycle and many links. By comparing the data of each link with the funnel, problems can be compared intuitively. In addition, the funnel chart is also suitable for website business process analysis, showing the final conversion rate of users from entering the website to realizing purchase and the conversion rate of each step.

Fun	nel								E Funnel V 15m Past 15 minutes	44 11 >> X
0	avg(load15)			avg(load5)					a1) - Title	Advanced Setting
0.2 0.3 0.4				105.469	6				Funnel Description @ Piease enter	
0.5	Query	JSON	Link						- Unit Global	Custom
	Metric ~	system	<ul> <li>load15</li> </ul>	v	Avg	~	Ŷ	fx	AS 🗘 🗊 👁 🗑 Select	~
	Metric ~	system	<ul> <li>load5</li> </ul>	Ý	Avg	~	7	fx	AS   AS    > D   • Color	
:: +	Metric ~	system Add Expression +	V load1	∨ Query ⑦	Avg	~	9	fx	AS () () () () () () () () () () () () ()	
										Modify Cancel

## China Map

Guance supports the display in the chart form of the China map. Users can customize the color block level, range, and color displayed.

Jser Session By Country	🕲 China Map \vee 15m Pa	st 15 minutes	44 <mark>  </mark> >>
	Area     Sessions ↓       ●     Shangha     15       ②     Beijing     8       ●     Gauangdong     8       ●     Schuan     7       5     Zhejlang     5	Basic Setting    Title  Title  User Session By Country  Description @  Piease enter   Color	Advanced Settin
Query         JSON         Link           #:         R::session:(count_distinct('session_id') as 'Sessions') { 'app_id' = '#{app. {env}' and 'version' = '#{version}' and 'country' = 'CN' and 'sdk_name' = 'd' 'province' slimit 50	id)' and `env` = '# f_web_rum_sdk' } by	Gradient interval auto Custom Gradient color scheme Levels	
Match regions by province      , match colors by Sessions     Add Query + Add Expression + Add PromOL Query ()	✓ values	3	- 199 - 499

# World Map

Guance supports the display in the form of a chart of the world map. Users can customize the color block level, range and color displayed.

World Map	🕲 World Map 🛛 🗸	15m Past 15 minu	tes	ee 11 >> >>
	Area count Crn	response_time) 🗢	Basic Setting Title Title World Map Description  Please enter	Advanced Setting
1 ~ 30 K ● 30 K ~ 120 K      Cuery JSON Link      Log ~ default ~ http_dial_testing ~ response_time ~ Count ~      by country × ~ 77 fx	AS 4		Color Gradient interval auto Custom Gradient color scheme Levels	v
Match regions by country v , match colors by response_time v value + Add Query + Add Expression + Add PromOL Query (*)	les		2 1 30000	- 29999 - 119999
			Aliae A	Modify Cancel

## Honeycomb

Honeycomb shows the data under different groups, which can be used to monitor assets and infrastructure.

Basic Setting Advanced Setting   • Title Title   Heneycomb Description @   • Description @ Please enter   • Color Gaident interval • Color Gaident interval • Color Gaident color scheme • Color •	Honeycomb × 15m Past 1	5 minutes 🛛 📢 🔢 🕨 🗡
Image_total       v       usage_total       v       AS (/)       Image_total       v         Image_total       v       value       v       value       v       v         + Add Query       + Add Expression       + Add PromQL Query       Image_total       v       v         Add Query       + Add PromQL Query       Image_total       v       v       v	64 166.5 269 Query JSON Link	Basic Setting Advanced Setting
	Metric v cpu v usage_total v Count by host v AS (A) 🗇 <table-cell> 1</table-cell>	max min  Legend Alias @ + Add elias

# **Topology Chart**

In order to enhance the visualization of the dashboard, Guance is componentized according to the existing service topology and resource call graph.

### 1. Service Map

kodo	15m Past 15 mir	inutes 📢 🔢 🍉 🛛 🗙
kodo-daily (6) kodo.nsq.producer	s 236 ms	Basic Settings
Query		Legend     Position
Service Map. V		Hidden Bottom
Color P99 Response Time ~		• Time Lock time @
		Edit Cancel

#### anypath 11h 2024/04/01 00:00:00 ~ 2024/04/01 11:15:43 \*\* \* × Basic Settings • Title Title anypath Description @ /c 0.02 req/s | 30.58 ms ≪6 c 0 Color Gradient color s max 17.5 ms 4 ms 31 ms • Legend Positio Query Hidden Bottom Resource Map • Time Service any Lock time @ × /anypath Past 30 minutes 0 ~ P99 Response Time Color ✓ × Ÿ = 🗸 prod env Edit Cancel

### 2. Resource Map

## Sankey Diagram

A Sankey diagram is a special type of flow diagram used to display the flow of data or energy. For example, it can show the flow of users from one page to another, or the energy transfer between different parts of a system. With a Sankey diagram, you can quickly understand the flow and distribution of data.



### Logs Stream

Guance supports adding log streams to the view, which can display the collected log data and can filter the data through tag filtering and keyword search before displaying it.

ogs Stream													15m	Past 15 mir	nutes		44	11 >>
ime ≑		,	Message												B	asic Setting	Advan	ced Setting
10/23 16:58:4	13.497		2023-10-	23T16:58:3	7.980+0800 INF	0 loggi	.ng/pan_1	tailer/	tailer_	single.g	o:121 cl	losing:	file	e /roo	Title			
10/23 16:58:3	88.494		2023-10-3	23 <b>T16:58:</b> 3	7.978+0800 INF	0 loggi	.ng/pan_1	tailer/	tailer_	single.g	o:307 fi	ile /ro	ot/33	3.log	The			
10/23 16:58:3	88.494		2023-10-3	23T16:58:31	7.927+0800 INF	0 loggi	.ng/pan_4	tailer/	tailer_	single.g	o:121 cl	losing:	file	e /roo	Title			
10/23 16:58:3	38.494		2023-10-	23T16:58:3	7.925+0800 INF	0 loggi	.ng/pan_4	tailer/	tailer_	single.g	o:307 fi	ile /ro	ot/66	.log	Log	is Stream		
10/23 16:58:3	88.494		2023-10-	23T16:58:30	5.978+0800 INF	0 loggi	.ng/pan_1	tailer/	tailer_	single.g	o:134 se	et posi	tion	90743				
10/23 16:58:3	37.493		2023-10-3	23T16:58:30	5.977+0800 INF	0 loggi	.ng/pan_1	tailer/	tailer.	go:232 r	ew loggi	ing fil	e /ro	ot/33	Desc	ription Ø		
10/23 16:58:3	37.493		2023-10-	23T16:58:30	5.925+0800 INF	0 loggi	ng/pan_4	tailer/	tailer_	single.g	o:134 se	et posi	tion	70052	Ple	ase enter		
10/23 16:58:3	87.493		2023-10-	23T16:58:30	5.924+0800 INF	0 loggi	.ng/pan_4	tailer/	tailer.	go:232 r	ew loggi	ing fil	e /ro	oot/66				
10/23 16:58:3	87.493		2023-10-3	23T16:58:34	4.936+0800 INF	0 loggi	ng/pan_3	tailer/	tailer_	single.	o:121 cl	losing:	file	e /roo				
10/00 10.00.0	DE 400		10.10	DOT16.00.0	4 034.000	1.1.1		+	+	cinala a	DAT 44	1. /	~+ /E 0	1	* Unit			
Query																Global	C	ustom
Log 🗸	default	~	datakit_k	og ~	Enter the DQL of	query	Please :	select •		Please s	elect 🗸	×	7		Sel	ect		
Column	message	e Me	ssage :	Enter column														
																		_
																	Modify	Cance

# Object List

Guance supports adding object lists to the view and can filter the data to view the data

under the corresponding object classification.

Object List				15m	Past 15 min	utes	44 II »> ×
Name		Category	Message			Basic Setting	Advanced Setting
al	L_3	host_processes	{"cmdline":"php-fpm: pool www","cpu":{"cpu":"cpu","use	er":0	,"syst	* Title	
al	l_3	host_processes	{"cmdline":"nginx: worker process","cpu":{"cpu":"cpu",	"use	r":15		
al	L_3	host_processes	{"cmdline":"nginx: worker process","cpu":{"cpu":"cpu",	"use	r":55	litie	
al	L_3	host_processes	{"cmdline":"nginx: master process /opt/rh/rh-nginx116/	root	/usr/s	Object List	
al	L_3	host_processes	{"cmdline":"php-fpm: pool www","cpu":{"cpu":"cpu","use	er":0	,"syst	04 112512 0011	
al	L_3	host_processes	{"cmdline":"(kworker/1:1)","cpu":{"cpu":"cpu","user":@	0.21,	"syste	Description @	
al	l_1	host_processes	{"cmdline":"/usr/bin/python3 /root/python/aa.py","cpu"	':{"c	pu":"c	Please enter	
al	L_1	host_processes	{"cmdline":"/usr/sbin/CROND -n","cpu":{"cpu":"cpu","us	ser":	0,"sys		
al	L_2	host_processes	{"cmdline":"/usr/bin/dockerd-currentadd-runtime doc	cker-	runc=/	* Linit	
Query		hast processor	relation/limeted fl. Hanully Manully Hanully		H.A.H.	Global	Custom
Basic O v	host_processe	s v Enter the DQL query	Ŷ				~
Column	name Name :	class Category : message :	Enter column				
							Create Cancel

### Event

Event supports to add anomaly detection alarm events to the view and filter data through label filtering and keyword search. The alarm statistical chart is divided into two parts, namely statistical chart and alarm list. 1. Statistical chart: Group events according to levels and count the number of events in each level and support clicking the statistical chart to jump to query the details of events;

ıt	15m Past 15 minutes	44 II >>>
Critical Error Warning 107 107 12	Basic Setting  Title  Title  Event	Advanced Setting
ok C	Description  Please enter	
al 472 events	<ul> <li>→ Display items</li> <li>Display items</li> <li>All</li> </ul>	
a Event		
3 17:00:00.000 主机 izb PU 使用率过高	1	
vent ∨     Enter the DQL query     Please select ∨     ≥     Please select ∨     ×     Y		

2. Alarm list: Display unrecovered alarm events within the selected time range.

## Text

Text is typically used for providing hints and explanations. You can add text, images,

hyperlinks to the text. The text here is in Markdown	format.
--	---------

	15m	Past 15 minu	tes	44 <mark>  </mark> >	×
est editing effect unordered list unordered list 1. ordered list 2. ordered list 3. ordered list			Basic Setting  Title Title Text Description  Please enter		•

## Video

Videos can generally be used for tutorials, instructions, and other purposes. They are easy to embed - simply fill in the video address.



# Picture

Pictures are generally used to display images, and you can add picture addresses to display the corresponding pictures.

Picture			15m Past	15 minutes	4 II 🕨 🛛 🗙
6				Basic Setting   Title  Picture	٥
9		uur	ICE	Description @ Please enter	
				<ul> <li>Display items</li> <li>Type</li> </ul>	
Picture	Link			Adaptation	~
Picture URL	https://stati	tal/vider			
					Create Cancel

## **Command Panel**

The command panel is composed of command buttons, which allow you to click and jump to specified scenes and views, open specified links, execute specified commands, and perform interactive actions in views. You can adjust the position for typesetting by dragging and dropping buttons.

Command Panel				15m F	Past 15 minut	es		* ×	
Scene View Link		•				Basic Setting  Title Command Panel  Description  Please enter		C	]
Button	Command	Configuration	Back Font	Border					
Scene	Open link	https://www.guance.com/	•		ŧ				
View	Open link	https://www.guance.com/	•		⊕				
Link	Open link	https://www.guance.com/			创				
		+ Add command							
							Modify	Cancel	

### IFrame

IFrame supports the configuration of https or http link address and supports the adjustment of URL address parameters through a variable form.

Iframe		15m Past 15 minu	tes	44 II >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
Explorers Pipelines Generate Metrics = 15m Past 15	minutes 🖈 🕇	<b>(]]</b> → 30s ∂	Basic Setting	
Index default > 🖪 > Q	⟨/> ∑i Group Pi	ease enter analy 🗸	▼ Title Title	C
✓ Status Distribution 4 K		30 seconds $\vee$	Iframe	
2 K 0 17.00.13 17.01.13 17.02.13 17.02.13 17.04.13 17.05.13 17.06.13 17.07.13 17.	7:08:13 17:09:13 17:10:13 17:11:13 17:12:13	17:13:13 17:14:13	Please enter	
Filter 🕲 🖉 Edit 🔃 Hidden total 20.18k results All logs	Pattern	Column		
Settings				
IFrame URL(Use HTTPS URLs or configure your browser to allow unsecured content.)	Link	View help docs >		
/logindi/log/all?time=#(TR)&query=#(T)	Guance supports URL parameter adjustment b Currently, Guance supports 2 types of template Time Variable (qTTR) and Vew Variable (qTV) entering the corresponding template variables link. Example: https://console.guance.com/log (TR)Atags=#(V). Currently available template variables #(TR) G #(V) G #(V.host) G	y means of variables, • variables, namely which can be used by after the URL of the Indi/log?time=#		
				Create Cancel

## **Combination Graph**

Combination charts are generally used to combine multiple charts with different result values of a metric to help users understand the comparison results of metrics.

Different types of charts can be combined at will.



### Events

Guance supports one-stop viewing and auditing of all event data, including alarm events triggered by monitors, alarm events triggered by intelligent inspection, SLO events, system audit events, and user-defined reporting events.

### Unrecovered Event

In the list of unrecovered events, you can see all the unrecovered events continuously triggered in the space, and the data volume statistics and alarm information details of unrecovered events under different alarm levels. It supports querying event data by searching keywords and filtering, saving and viewing historical snapshots, and viewing metric data trends in the last 6 hours through window functions.



# All Events

In all event lists, users can search, multi-label filter, aggregate statistics by monitor group and quick filter. It supports data export, and supports saving and viewing historical snapshots.

Explorers Intelligent Monitoring	BETA					1	5m Past 15 mir	nutes		я	+ <b>II</b> ⊳	30s O
<u>ili</u> = <b>G</b> × Q									¶a G	roup Pleas	e enter analysis dir	mens 🗸
Filter 🧷	Distribution											
> Fault Status	300		1									
> Event Status	0											
> Alarm Policy	15:21:40	15:23	15:24:20	15:25:40	15:27	15:28:20	15:29:40	15:31	15:32:20	15:33:40	) 15:35	15:36:2
> Monitor Name											total 2,108 result	ts ©
	Time ≑			Even	t Title							
> Monitor Type	04/07 15:35:0	0.000		labe	l cn-h:		31					
> Detection Type	04/07 15:35:0	0.000		主机	cn-ha j		12 内存使用	率过高				
, potosion type	04/07 15:35:0	0.000		【重》	更] 检测对象	df_monitor_	checker_id:r	ul_06fe		2988	48c6 存在数据断	档
> Host	04/07 15:35:0	0.000		labe	l iZu							
	04/07 15:35:0	0.000		主机	iz		z 内存使用率过	這				

## **Event Aggregation**

In all event list analysis columns, multi-dimensional analysis based on label field is supported to reflect aggregated event statistics under different analysis dimensions.

Explorers Intelligent Monitoring	BETA		15m Past 15 n	ninutes	🖈 📢 🔢 🕨 30s 😌
<u>u</u> ≡ <b>B</b> × Q				Group	Monitor ID ~
Filter 🖉					total 47 results
> Fault Status	Time 🝦	Event Title			counts
	04/07 15:46:00.000	监控器日志聚合株	anager		> 264 aggregation events
> Event Status	04/07 15:46:00.000	主机检测维度cpu过高cn-ha	1		> 49 aggregation events
> Alarm Policy	04/07 15:46:00.000	主机检测维度mem过高iz	Z		> 70 aggregation events

## **Event Details**

Click **Event** or **Aggregate Event** to view the basic information, status & trend, alarm notification, history and related events of the corresponding event in the Event Details page. You can export and jump to monitor configuration.

c ut-rix       ret ry	an h		中方体田家过言					
Image: stand Fields Alert Notice History Records Related Events Related SLOs (0)   ection Dimensions ection Metric ©	, cn-n	32	內仔使用率过高					
ection Dimensions ection Metric ©  cmm::(LAST(used_percent)) BY 'host'  torical Trends  Cat chart query statem 2024/04/07 14:40:00 ~ 2024/04/07 15:38: 40  Cat chart query statem 2024/04/07 14:40:00 ~ 2024/04/07 15:38: Cat chart query statem 2024/04/07 15:28: Cat chart query statem 2024/04/07 15:28:28:28:28:28:28:28:28:28:28:28:28:28:	rmation	Extend Fields	Alert Notice	History Records	Related Events	Related SLOs (0)		
sst     cn-       ection Metric @       :mem:(LAST(used_percent)) BY host'       torical Trends     Cet chart query statem       2024/04/07 14:40:00 ~ 2024/04/07 15:38:       205       205       205       205       205       205       205       205       205       205       205       205       206       207	ection Dim	ensions						
Section Metric ©       timem: (LAST(used_percent)) BY 'host'       torical Trends     Get chart query statem       2024/04/07 14:40:00 ~ 2024/04/07 15:38:       20%	ost cn-							
Emeral: (LAST(used_percent)) BY 'hos'     Get chart query statem       2024/04/07 14:40:00 ~ 2024/04/07 15:38:       26 %       26 %       26 %       26 %       26 %       26 %       26 %       26 %       26 %       27 %       28 %       29 %       20 %	ection Met	ric ©						
Corical Trends         Get chart query statem           2024/04/07 14:40:00 ~ 2024/04/07 15:38:           20%           20%           20%           10%           5%           0%           0%	:'mem`:(LAST	'used_percent')) BY 'ho	sť					
2024/04/07 14:40:00 ~ 2024/04/07 15:38: 30 % 26 % 20 % 15 % 5 % 0 % 0 % 10 % 5 %	orical Tren	ds						Get chart query stat
30 %							2024/04/07 14	40:00 ~ 2024/04/07 15:
25 % 20 % 15 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 2	30 %							
20 % 15 % 10 % 5 % 0 % 0 % 10	25 %							
15 % 10 % 5 % 0 %	20 %							
10 % 5 % 0 %	15 %							
5% >0 0%	10 %							
	5 %							
14.40 14.4F 14.FA 14.FA 1F.00 1F.00 1F.00 1F.00 1F.00 1F.00 1F.00	0 %							
	14.40 14.4	1 14:46 14:49 14:50	14-52 14-54 14-56	14:58 15:00 15:02 15:04	15:06 15:08 15:10 15:	12 15:14 15:16 15:18 15:20	15:22 15:24 15:26 15	28 15:30 15:32 15:34 15
פגיפן טפגוע טעגען פאיא אייר פאיא אייר אייא אייר אייר אייר	%	14:45	14:50 14:55 14:52 14:54 14:55	5 15:00	15:05 15:10	15:15 15:20	15:25	15:30 15:35

## Intelligent Monitoring

In the **Events > Intelligent Monitoring** explorer, you can view a complete list of events generated by intelligent monitoring in the current workspace.

- Use a stacked bar chart to count the number of events that occurred at different times and under different rules in the current event explorer.
- Search for events based on tags, fields, and text using keywords, tag filtering, field filtering, and related searches.
- Perform aggregated event analysis by grouping events based on selected fields.

Explorers Intelligent Monitorin	3h 2024/04/07 12:24:22 ~ 2024/04/07 15:24:22 *
<b>E</b> , ~ Q	√ M Group Please enter analysis dimension  ✓
Filter	Distribution
> Host	Time 🗘 Event Title
> Service	04/07 14:20:00.000 来源 kubernetes_events 在过去 10 分钟期间日志数量出现了 1 次异常突增
> Source	04/07 14:20:00.000 来源 worker-1-6 在过去 10 分钟期间日志数量出现了 1 次异常突墙
	04/07 14:20:00.000 来源 kubernetes_events 在过去 10 分钟期间日志数量出现了 1 次异常突增
	04/07 14:20:00.000 来源 worker-1-6 在过去 10 分钟期间日志数量出现了 1 次异常突增
	04/07 14:20:00.000 来源 worker-1-6 在过去 10 分钟期间日志数量出现了 1 次异常突堵
	04/07 14:20:00.000 来源 worker-7 在过去 10 分钟期间日志数量出現了 1 次异常突增
	04/07 14:20:00.000 来源 worker-7 在过去 10 分钟期间日志数量出现了 1 次异常突增
	04/07 14:20:00.000 来源 worker-7 在过去 10 分钟期间日志数量出现了 1 次异常突增

#### **Intelligent Monitoring Details**

In the Intelligent Monitoring event explorer, click on any event to open the event details, including analysis reports, extend fields, alert notice and related events. On the event details page, you can also jump to the monitors associated with the current event and export key event information to PDF or JSON files.

nalvsis report	Extend Fields	Alert Notice	Related Events				
alysis report	Exterior Fields	/ 10/11/00/00	Tiolatod Evolito				
Summary							
ource kubernetes	events						
能监控在 [14:09] 发	;现在过去 10 分钟期间)	日志数量呈现异常突增	1,共出现了 1 次异常				
志数分布							
50					1		
50				(			
50 50 40				[			
50 50 40 30							
60 50 40 30 20							

### Incidents

Guance supports any member in the workspace to define observed anomalies as Issues and manages all Issues generated within the current workspace through the "Channels" of anomaly tracking. By manually creating and collaborating with members, timely identification and effective resolution of ongoing abnormal issues can be achieved.

### Create Issue

An Issue includes information such as title, anomaly source, severity, description, and attachments. Any member of the Guance workspace can create an Issue based on observed anomalies and notify relevant members to track and address them.

There are two ways to create an Issue: manual creation and automatic creation.

#### 1. Manual creation

In Incidents, select a Channel and click New Issue to create one. Additionally, Guance supports manual Issue creation in modules such as the dashboard, viewer, and events.

Incidents			New issue     Configuration management
Channel (3)	🛛 All	R1 Q0	©
# All		Create	·
# FM101		Title	
# FM103	SYS	0/256	
<ul> <li>Add channel</li> </ul>		Channel Default delivery to "All", supports custom addition of other channels Level P1	17.02:01   図 2
	SYS	Description Add email notifications through @, add delivery channels through # 0/3000	
		Upload file	16:02:00 图 5
	SYS		

#### 2. Automatic creation

In Monitoring, select the configuration of Monitors and configure notification members in the event content of event notification. Turn on "Related issues", so that an issue will be created automatically when the monitor generates an alert for an abnormal event. Check "Recover event and related issues", so that the exception tracking issue will be resumed synchronously when the abnormal event is resumed.

Monitor > K8S node disk exception-[T	hreshold Detection]
ID: rul_bd9d3 +0729f6	Status: Enable   Creator: J   Create time: 2023/12/11 11:34:02   Updater: J   Update time: 2023/12/11 11:34:02
S Add Tags	
2 - Event Notice	
* Event Title	K8S node disk exception 23/256
Event Content @	B I H ↔ K ☵ ☵ Œ @ + Link + Variables + Advanced Help   .
	<pre>&gt;Level: {{ df_status   to_status_human }} &gt;Cluster: {{ cluster_name_k8s }} &gt;Occurs count: {{ df_monitor_checker_value }} times &gt;Content: K8s cluster {{cluster_name_k8s}} node disk exception, please check as soon as possible. &gt;Suggestion: Check the disk usage of node system disks and data disks (including Docker and Kubelet logical disks) @cr</pre>
Related issues	No data notification configuration      Synchronously create Issue
	Level P1  Channel FM101  Channel Recover event and related Issues

## Manage Issue

Guance manages all the issues generated within the current workspace through the Channels of anomaly tracking. Based on channels, you can customize the scope of issues to subscribe to, view subscribed members or notification recipients, use time controls, or reply to issues to achieve member collaboration.

In Incidents, on the left side of the current page, below the channel list, click on Add Channel to enter the channel name and create a new channel.

Incidents		New issue     Configuration management
Channel (3)	AII 81 40	۵
# All	Start Time To End Time Q. Filter, search	~
# FM101	6V5 SYS @ Monitor 2023/10/24 11:23:41	
<ul> <li>Add channel</li> </ul>	Open         The CPU usage of Host         is too high.           >Level: warning            >Host: [            >Content: System CPU usage is 7.46%            Source: The CPU usage of Host {[ [2]]         Updater:	
	SYS       Monitor       2023/10/24 11:21:02         Open       The CPU usage of Host       ion_app01 is too high.         >Lawel: warning       app01         >Content: System CPU usage is 2.82%.          Source: The CPU usage of Host ([ [2]])       Update: []	

## Infrastructure

Guance supports viewing all infrastructure data collected in the workspace, including hosts, containers, processes, networks and custom objects

### Host

Guance supports collecting host data, searching hosts, multi-label screening, multi-dimensional analysis statistics, and quick screening in the host list of Infrastructure, data export, adding display columns, saving and viewing historical snapshots and only show online hosts.

Hosts Containers Proces	ses Network Custom			1d 04/02 15:37:34 ~	• 04/03 15:37:34 🕥 🤤
≣ <b>%</b> E, ∽ Q					∑ 관 Analysis
Filter 🖉				total 4 results	Column 🛞
Only show online hosts ②	Host 🜩	OS	Cpu Usage 🔘	Mem Used Percent @	Load @
> Project	Δ U	linux	11.28	34.55%	1.12
> Cloud Provider	A iz hqZ	linux	1.04%	31.17%	0.04
> Region ID	🛕 a1 1	linux	2.8%	43.73%	0.14
> OS	E DE	windows	0.55%	49.77%	0
> Datakit Version					



You can switch to the host topology chart to visually display the host list.

Click on the host to view the details of the host, including host status, host name, basic attributes, associated logs, processes, events, containers, networks, security inspections, metrics, and bound inner views. The basic attributes include label attributes, integrated operation, system information, cloud vendor information, and more. By clicking on the collector under integrated operation, you can view the corresponding view and error reporting information.

<mark>∆</mark> ali, _ · · ·	^1						4	Mute host	đ	×
Information	Attributes	Metrics	Logs (99+)	Processes (99+)	Event (17)	Container (0)	Network	Sec	≡ ⊙	)
label 🛛 🖉										
Integrations @	DataKit Version:	1.20.1 ( Updat	e 🛨 ) Last Report	ed Time: 2024/04/03 15:3	35:40					
container 11. cpu	ddtrace II di	altesting 🔒 d	isk <b>"I.</b> diskio <b>"I.</b>	dk ebpf host_proces	ses hostobject	jaeger logging II.	mem 🔒 net	II. nginx		
II. opentelemetry	I. postgresql	proxy rum d	swap II. system							
System Information	on									
> I Basic Infor	mation(1) ali	p(	01							
> @ CPU(1) A	MD EPYC 7H12	64-Core Proce	ssor							
> 🗷 Memory(1)	3.56 GB									
> 🖹 network(1)	172									
> 🕀 Dist(1) 39	9.25 GB									
> % Connection	n Tracking									
> 🗳 File										
Cloud Provider In	formation									
Cloud Provider	(-) alivun			Instance	Name aliv					
Instance ID	i-2	vfv		Region	cn-beij	ing (Beijing)				
Instance Type	ecs.c6a.large			Available	e Area cn-beij	ing-h				
Network Type	vpc			Paid Typ	e -					
Main Private IP	17			Security	Group 0					0]

## Container

### Explorer

Guance supports the collection of container data. On **Infrastructure > Container > Explorer**, it is supported to view the data of Containers, Pods, Services, Deployments, Clusters, Nodes, Replica Sets, Jobs, and Cron Jobs collected in the current workspace in the last ten minutes in the form of a list. You can search, multi-label screen, multi-dimensional analysis statistics, and quick screen the data in the list. It is supported to save and view historical snapshots. Click on the container to skid to view container details.

Host Container Process	Network Custom			10m	Past 10 minutes ~	44 <b>11</b> >> -<
Explorer Analysis	Dashboard ~					
≡ 🍰 🖪 × 0.					47	କ୍ର Analysis
Containers	Hidden total 43 results					Column
Kubernetes ~	88 +		主机	CPU 🖞	用車 @ MEM	使用率 @
	🔹 ngi		izbp	01_	01	0.07
e Pods	e met		izbp	01_	0.56%	0.35
evices	e kub		izbp	01_	0.23%	0.78
Beployments	🔵 kub		izbp	01_	85	0.61
@ Chusters	l 🛛 kub		izbp	01_	0%	0.5
() comes	l o kub		izbp	01	1.26%	1.7
Nodes	l 🛛 kub		izbp	01	5.25%	16.
Replica Sets	🖌 🖝 exa		shar		3.04%	2.6
Jobs	🖌 🖝 exa		shar		1.06%	8.7
© Case lake	🖕 exa		shar		2.8%	2.9
iei Cron Jobs	etc		izbp	01_	2.4%	3.6
Baemonset	🛛 💿 dat		izbp	01	57.29%	23.
-	🖌 🖝 dataflux-func_	:380v3brs1rhuwtuq	shar		0.1%	2.87
iter 🕲 🖉 Edit	🖌 🖝 dataflux-func_	lweyf4k6y8xrdkd5j	aliy _	0	0.04%	5.75
> Project	🖆 dataflux-func_	j1daxva9bx@iayv	aliy _	0	0.04%	2.85
kinet	🖕 dataflux-func_	jjghikd45baqj1q	shar		0.09%	0.6
Ploat	🖌 🖝 dataflux-func_	.9jr9emrus6wti92s	shar		0.11%	1.0
> Image name	🖝 dataflux-func_		aliy _	n	0.05%	4.12
Chata	💣 dataflux-func_	iq6o7285tkcrsd8	aliy _	0	0.4%	2.63
/ otale	🖕 👉 dataflux-func_	j2qbv1c20zkm4v0	shar		0.67%	0.68
> Pod	🖝 dataflux-func_	bnwosgut81yl	shar		0.07%	0.74
Contribution	🖌 🖝 dataflux-func_	7j3qbe5h9o@qu	aliy	n	0.04%	10
> Container type	🖝 dataflux-func_	xy98aogs2rt	aliy	0	0.12%	0.00
	🖌 🖝 dataflux-func_	:f2r653mwx1e	shar		0.22%	0.15

On the **Containers > Pods List** page, you can switch to the Container topology, view the Containers and Pods data of the workspace in the form of a distribution diagram, and quickly identify the performance status of Containers / pods based on the size of the populated data.



### Analysis Dashboard

#### On Infrastructure > Container > Analysis Dashboard, it is supported to

comprehensively monitor Kubernetes' data metrics by building a multi-dimensional

🖈 📢 🔢 🕨 30s 😌 🌧

20 seconds ~

Pod capacity

1



data insight scenario.

### Process

16:40

Pods Allocatable

120

100

Guance supports collecting object process data. In the process list of Infrastructure, it supports searching for processes, multi-label filtering, multi-dimensional analysis statistics and quick filtering, data export, adding display columns, saving and viewing historical snapshots, and clicking on processes can sideslip to view process details.

Storage Allocatable

16:40

16:50

40 B

Host	Container	Process	Network	Custom					10m P	ast 10 minutes 🗸	44	>> 0
E, ~	Q							72	Group	Please enter an	alysis dimensi	~
Filter 🕲	3	∠ Edit	Hidden total	947 results							Column	٢
> Proj	ect		Cmdline 🝦			Userna	Host		Cpu Usag	e Ø	Mem Used Per	rc Ø
			sshd: /		listener] 0 of 10-100 startups	root				0%		0.0
> Proc	cess name		sh bin/			root				0%		0.0:
> Hos	t		sh bin/		)st:9876	root				0%		0.0:
			sh /opt		<pre>erver.sh org.apache.rocketmq.namesrv</pre>	root				0%		0.0:
> Stat	e		sh /opt		oker.sh org.apache.rocketmq.broker.B	root				0%		0.0:
> Use	rname		redis-s			polk				0.55%		1.5
			redis-s			polk				0.23%		0.5
> Dire	ctory		redis-s			lxd				0.23%	1	0.1
			qmgr −l			post				0%		0.0

### Network

Network supports views network traffic between the host, Pod, Deployment, and Service. Support to view network traffic and data connection between source IP and target IP based on IP/port, and support to click nodes to view upstream and downstream data connection. Through visual real-time display, it helps enterprises know the network running status of business systems in real time, quickly analyze, track and locate problems and faults, and prevent or avoid business problems caused by network performance degradation or interruption.

Host Container Proc	cess Network	Custom			15	m Past 15 minutes		
Host ~	w 吊 Map						View ne	stwork streaming data
<b>E</b> ~ Q								>         ><
Filter	I Hidden							
> Direction	Bytes Written	Bytes Read		TCP Latency TCP	Jitter	< TCP F	Retransmits TC	P Connection >
> Transport	24.41 KB	~~		21 ms		12	011	٨
> Host	19.53 KB 14.65 KB			15 ms		8		$\Lambda \Lambda /$
> PID	9.77 KB 4.88 KB			9 ms 6 ms 3 ms		6 4 2		
Client	0 B 17:06 17:08	17:10 17:12 17:14 17:	16 17:18 17:20	0 ns 17:06 17:08 17:10 17	:12 17:14 17:16 17:18 17:20	0 17:06 17:08	17:10 17:12 17:14	17:16 17:18 17:20
> IP								
> Port	Network Path (1	otal 15 results )						0
> IP Type	Client		Server		Bytes Written 🜩	Bytes Read ≑	TCP Latency	TCP Retransm
· · · · · · · · ·	izbp	hyf5z	alij		48 B	-	-	0
> Pod Name	izbp	hyf5z	N/A		2.36 MB	14.56 MB	6.68 ms	64
a 1100000000	izbr	hyf5z	gtm-		897.98 KB	1.09 MB	12.24 ms	0
Namespace	aliy	p01	ali		4.78 KB	4.91 KB	3.25 ms	0
> Deployment Name	izbp	hyf5z	ali		1.17 MB	14.95 KB	5.28 ms	0
	aliy	p01	alij		432 B	336 B	-	0
Service Name	izbr	hyf5z	izbj		28.83 MB	16.39 MB	3.02 ms	0
Senver	izbp	hyf5z	alij		151.16 KB	98.29 KB	3.56 ms	2
561761	izbp	hyf5z	ali		48 B	-	-	0
> IP	aliy	p01	dati		467.37 KB	40.76 KB	182.59 ms	0
> Port	izbp	hyf5z	ali		5.13 KB	36.45 KB	12.14 ms	1
	aliy	p01	gtm-		874.09 KB	1005.32 KB	37.54 ms	0
> Domain	aliv	p01	N/A		320.84 KB	125.23 KB	28,18 ms	0

It supports switching to the network list to view network traffic and data connections for hosts, Pods, Deployment and Services.

S Back Network	Streaming Da	ta						15m Pa	st 15 minutes			0
Net Flows HT	TP Flows											
<b>e</b> ~ Q										>	¶a - ⊕ A	nalysis
ilter 🐵	🖉 Edit	Hidden total 404 results									(	Column
Q label		Time 💠	Client I	Server I	Direction	PID	Networ	Family	Source	Source	Source	Source
1. Mar 1. Mar 1.		12/12 17:21:44.859	172.31	100.10	outgoi…	9791	tcp	IPv4	private	-	(m)	-
> Direction		12/12 17:21:44.859	172.31	100.10	outgoi…	1103	tcp	IPv4	private	-	-	-
> Transport		12/12 17:21:44.859	100.64	100.64	outgoi	606	tcp	IPv4	other	N/A	N/A	N/A
		12/12 17:21:44.859	172.31	100.10	outgoi…	9791	tcp	IPv4	private	<u>.</u>	<u>20</u>	-
> Host		12/12 17:21:44.859	172.31	172.31	outgoi	9899	tcp	IPv4	private	-	-	-
> PID		12/12 17:21:44.859	100.64.	100.64	outgoi	606	tcp	IPv4	other	N/A	N/A	N/A
		12/12 17:21:44.859	100.64	100.64	incomi	8184	tcp	IPv4	other	coredn	kube-s	core
lient		12/12 17:21:44.859	172.31	172.31	outgoi…	606	tcp	IPv4	private	-	-	-
> IP		12/12 17:21:44.859	100.64	100.64	incomi	8184	tcp	IPv4	other	coredn	kube-s	core
		12/12 17:21:44.859	172.31	100.10	outgoi	9791	tcp	IPv4	private	-	-	-
> Port		12/12 17:21:44.859	172.31	100.10	outgoi…	9791	tcp	IPv4	private		-	-
> IP Type		12/12 17:21:44.859	100.64	100.64	outgoi…	606	tcp	IPv4	other	N/A	N/A	N/A
-		12/12 17:21:44.859	172.31	100.10	outgoi	9791	tcp	IPv4	private	8	Ξ.	-
> Pod Name		12/12 17:21:44.859	100.64.	100.64	outgoi…	606	tcp	IPv4	other	N/A	N/A	N/A
> Namespace		12/12 17:21:44.859	172.31	100.10	outgoi	9791	tcp	IPv4	private	-	-	-
		12/12 17:21:44.859	172.31	100.11	outgoi…	9791	tcp	IPv4	private	-	-	-
<ul> <li>Deployment Name</li> </ul>		12/12 17:21:44.859	172.31	100.10	outgoi	9791	tcp	IPv4	private	-	-	-
> Service Name		12/12 17:21:44.859	172.31	100.10	outgoi…	1103	tcp	IPv4	private	-	<b>1</b> 2	-
		12/12 17:21:44.859	172.31	100.10	outgoi	9791	tcp	IPv4	private	-	-	-
erver		12/12 17:21:44.859	100.64	100.64	incomi	8210	tcp	IPv4	other	coredn	kube-s	corec
> IP		12/12 17:21:44.859	172,31	172.31	incomi	24815	tcp	IPv4	private	-	-	-

It supports switching to topology to view the upstream and downstream distribution of



Click on the host, Pod, Deployment and Service to view the network details.



### Customize

Guance supports custom collection of object data other than hosts, containers, and processes, such as Alibaba Cloud ECS. In the Custom list of Infrastructure, you can create new object classes and customize object class names and object fields by adding object classes. After adding custom object classification, you can report custom data through API. Support to search the reported data, multi-label screening and multi-dimensional analysis and statistics, support data export, support to add display columns, and click to view details by sideslip.

Host	Container	Process	Network	Custom				2d 10	0/21 17:32:02 ~ 10/23	3 17:32:02 🕚	0
E, ~	a					$\langle \rangle$	肾	Group	Please enter analy	sis dimensi	~
Object t	ype(23)	۲	total 3 results							Column	۲
Q. Sea	arch		Name								
		0	i-	13							
aliyun_	ddoscoo		i-	ĸm							
aliyun	_ecs		i-	βW							
aliyun	_eip										
aliyun	elasticsearch										
aliyun	nat	0									
aliyun_	OSS										
aliyun	slb										

### Metrics

Guance supports viewing all data metric sets, metrics, and labels collected in the current workspace in metrics. You can query and analyze data such as metrics, logs, basic objects, custom objects, events, application performance, user access, security check, network, and Profile.

### Metric Analysis

Enter the Metrics > Metric Analysis page and support users to visually query different data based on Simple Query, Expression Query, PromQL Query, DQL Query and Datasource Query. It supports switching various viewing modes of line chart, area chart, bar chart, and table chart, supports adding query results as key metrics of warroom, supports exporting data in table chart view mode, and table chart supports querying and analyzing in time mode, group mode and query tool.



### Metric Management

After the metric data is collected, you can view all the collected measurements, their metrics and labels, timeline number, data storage policy, and support the workspace owner to set the metric data storage policy in the **Metric Management** of the Guance workspace.

Metric Analysis Metric Management		2024-04-03
Q Search Measurement name		
Measurement Name	Number of Timeline 🔸	Data Storage Strategy
mongodb_atlas	513	7 days
dk	200	7 days
jvm	179	7 days
net	128	7 days
mysql_innodb	118	7 days
postgresql	110	7 days
mem	102	7 days
diskio	91	7 days
mysql	68	7 days
сри	61	7 days

It supports to view all available metrics and labels under the measurement on the details page, support fuzzy search, customize metric units and descriptions on the metric page and view label descriptions on the Tag page.

disk					×
Met	ric (11) Label (5)	)		Q Search	<u>ٹ</u>
	Metric Name		Field Type	Unit	
~	free		float		
	Metric name	free			Save Cancel
	Field Type	float			
	Unit	Data Size B 🛛 🗸			
	Description	Description			
			0/51	2	
>	inodes_free		float		
>	inodes_free_mb		float		
>	inodes_total		float	188	
>	inodes_total_mb		float	1	
>	inodes_used		float		
>	inodes_used_mb		float		
>	inodes_used_perc	cent	float	-	
>	total		float	5 m	
>	used		float	18	
>	used_percent		float	5×	

Metric units and descriptions and label descriptions can be viewed and applied in simple modes of scene chart query, monitor metric detection and DQL query.

饼图	(b) Pie chart $$	tes 🛛 📢 🔢 🍉 🛛 🗙
		Basic Setting Advanced Setting
		Pie chart Doughnut chart Rose diagram
Name	Value	- Title
avg(used)	10.35 Gb (51.39%) 9.79 Gb (48.61%)	饼图
	***	Description Ø
Query JSON Link		Please enter
II Metric V disk V used V	Avg ~ by label ~ Y fx AS (/) D @ D	- Unit
🗄 Metric 🗸 disk 🗸 free A	Avg ∨         by         label ∨         Y         fx         AS         ↓         □         ●         □	Global Custom
Display only     Top     Inodes_free     inodes_free     Add Query + Add Expression + Ad     inodes_total     inodes_total     inodes_total     inodes_total	free  Type: float Unit: B Description No description info	Data Size b    Color  + Add colors
inodes_used_mb		Modify Cancel

## Logs

Log data plays an important role in various aspects, including:

- Data search: Retrieving log information to locate corresponding problems and find solutions.
- Service diagnosis: Analyzing log information statistics to understand server load and service running status.
- Data analysis: Supporting further data analysis.

Guance provides comprehensive log collection capabilities. By configuring log collection, log data can be uniformly reported to the Guance workspace, where it can be stored, audited, monitored, alarmed, analyzed and exported.

## Log Explorer

In the **Log Explorer**, you can search logs, apply multi-label filtering, perform multi-dimensional analysis statistics and quick filtering and view filtering history. It also supports data export, adding display columns, hiding sensitive log data contents or highlighting log data contents that need to be viewed through formatting configuration, saving current display contents, time range and filter conditions to snapshots and view historical snapshots.

Log Explorer supports three viewing modes: All Logs, Clustering, and Multidimensional Chart Analysis.

### 1. All Logs

View and analyze collected raw log data.

Explorers Pipelines Gene	erate Metrics Indexes NEW	Blacklist Data Forward	E 15m Past 15 minutes	*	<b>44   </b> → 30s   €
Index default ~ 🕞 ~ Q.				4	ର ମୁନ୍ଦି Analysis
Filter	Status Distribution				
> Service					
> pod_name	15:47:40 15:48:40 15:49:40	15:50:40 15:51:40 15:52:40 15:	53:40 15:54:40 15:55:40 15:56:40 1	15:57:40 15:58:40 15:59:40	16:00:40 16:01:40
> Container Name	All logs Pattern			total 1,329 results	Column 💿 💥
> Host	Time ≑	内容		source host	status service
	04/03 16:02:40.761498	2024-04-03T16:02:40.036+080	0 INFO logging/pan_1 tailer/ta.	dataki… aliyun…	unknown datakit
> Status	04/03 16:02:40.761498	2024-04-03T16:02:39.035+080	0 INFO logging/pan_1 tailer/ta	dataki… aliyun…	unknown datakit
	04/03 16:02:39.760911	2024-04-03T16:02:39.035+080	0 INFO logging/pan_1 tailer/ta	dataki… aliyun…	unknown datakit
	04/03 16:02:39.760911	2024-04-03T16:02:34.234+080	0 INFO logging/pan_4 tailer/ta.	dataki aliyun	unknown datakit
	04/03 16:02:34.758361	2024-04-03T16:02:34.233+080	0 INFO logging/pan_4 tailer/ta	dataki aliyun	unknown datakit
	04/03 16:02:34.758361	2024-04-03T16:02:33.232+080	0 INFO logging/pan_4 tailer/ta_	dataki aliyun	unknown datakit
	04/03 16:02:34.680535	[GIN] 2024/04/03 - 16:02:30	200   1.003725502s   127.0	dataki aliyun	unknown datakit
	04/03 16:02:33.757963	2024-04-03T16:02:33.231+080	0 INFO logging/pan_4 tailer/ta_	dataki aliyun	unknown datakit

#### 2. Clustering

Fix the current time period according to the time range selected at the top right, obtain 10,000 pieces of data in this time period for cluster analysis, aggregate logs with high approximation, and extract common pattern clustering, which is beneficial to finding abnormal logs and quickly locating problems.

Explorers Pipelines Gen	erate Metrics Indexes	Blacklist	Data Forward	Data Acc =	15m	Past 15 minutes		*	30s 🗧
Index default ~ 🖪 ~ O.								ন্থ	Analysis
Filter 🖉	Status Distribution								
> source	50				-			-	-
> service									
> pod_name	15:50:40 15:51:40 15:5	2:40 15:53:40 15:54:	40 15:55:40 15:56:	40 15:57:40 15:	58:40 15:	59:40 16:00:40 16:01:40	16:02:40 16:03:4	0 16:04	4:40
> container_name	All logs Pattern I	oy message				<b>19</b> pa	atterns total 1,328 re	esults ()	) ()
> host	Count ≑	Pattern							
7 1031	269	2024-04-03T16:05	5:31.851+0800 INFC	logging/pan_3	tailer/1	ailer_single.go:122 clo	osing: file /ro	ot/55.1	log
> status	269	2024-04-03T16:05	5:33.231+0800 INFC	logging/pan_4	tailer/1	ailer.go:252 new loggin	ng file /root/6	6.log v	with s
	269	2024-04-03T16:05	5:33.232+0800 INFC	logging/pan_4	tailer/1	ailer_single.go:136 set	position 7005	28 for	filen
	269	2024-04-03T16:05	5:34.233+0800 INFC	logging/pan_4	tailer/1	ailer_single.go:322 fil	le /root/66.log	has be	een in
	60	2024-04-03 16:05	31.961 CST [1550	7] FATAL: pass	word auth	entication failed for u	iser "postgres"		
	59	2024-04-03 16:05	31.956 CST [1550	6] DETAIL: Con	nection m	atched pg_hba.conf line	87: "host all	all 12	27.0.0

#### 3. Multidimensional Chart Analysis

Group statistics of original log data based on 1-3 labels, to reflect the distribution characteristics and trends of log data in different groups and at different times.

Explorers Pipelines Gene	nerate Metrics Indexes TREVE Blacklist Data Forward Data Acc. = 15m Past 15 minutes	🖈 30s Ə
Index default ~ 🕄 ~ O.	۲٦ دې ۱۲	Analysis
Filter 🖉 📧	ଲୀ Timeseries 🖝 Top list 🔮 Pie chart 👪 Treemap	🖬 🕼 d
> Source	Count v * v - by status × O - slimit 20 v	
> Service		
> pod_name	Style Area ch V	
> Container Name	40	
> Host		
> Status		$\wedge$
	20	
	10	
	10	
	10	
	10 15.48 15.50 15.52 15.54 15.56 15.58 16.00	16:02
	10 15.48 15.50 15.52 15.54 15.56 15.58 16.00 Name Avg Min Max	16:02 Sum Last
	10 15.48 15.50 15.52 15.54 15.56 15.58 16.00 Name Avg Min Max 0 count()(status: unknown) 27.27 4 35	16:02 Sum Last 1.23 K
	Name         Avg         Min         Maxe           count(1)(status: unknown)         27.27         4         35           count(1)(status: info)         4         4         4	16:02 Sum Last 1.23 K 56

### Log Details

Click on a log to view its corresponding details, including all attributes, log contents, extended fields associated with the log. It also supports viewing associated hosts, containers, Pod, links, metrics, etc.

Note: To view the associated host, container, Pod, link and metric in the log details page, you need to match the relevant fields "host", "container\_name", "pod\_name", "trace\_id", "service", "project" and "source", otherwise you cannot view the relevant pages in the log details.

unknown 2024/04/03 16:08:45				х т
Host So dat	urce iakit_log	Service datakit		
Message (121 B)				
1 2024-04-03T16:08:43.231+0800 INF0 /root/66.log	0 logging/pan_4 tail	ler/tailer_single.go:136	set position 700528 for file	name 🗇
Attributes Log Context Host	Network	$\odot$		⇒
Q Search field name or value				🗹 field alias
field name	field value			
create_time Create Time	2024/04/03 16:08:46			
date_ns Date ns	906699			
df_metering_size	1			
filename Filename	log			
filepath filepath	/var/log/datakit/log			
host Host	aliy _ · · ·p01			
index Index	default			
log_read_lines   Log Read Lines	973457			
log_read_offset Log Read Offset	27969126			<b>(</b>
log_read_time   Log Read Time	2024/04/03 16:08:45.004			

## Pipelines

Pipeline supports text parsing of log data in different formats. By writing Pipeline scripts, you can customize and cut structured logs that meet the requirements, and use

the cut fields as attributes. Through the attribute field, we can quickly filter related logs, conduct data association analysis and help quickly locate and solve problems.

Explorers	Pipelines	Generate Metrics	Index NEW	Blacklist	Data Forward	Access NEW		Ø Pipelin	e using he
DataKi matched fi	it Version requir irst, and the Pip	es > = 1.5.0, and Pipelin beline configured elsewh	e will only take eff ere will not take ef	ect in compliar fect.	it DataKit versions. I	the Pipeline path is configu	red in the collector file (for example,	nginx.conf), it	t will be
Oreate	Pipeline P	ipeline Official Library							Import
Q Search F	Pipeline name								
Pipe	eline Name					Status	Last Update Time		Operate
ngin	x default					Enabled	10/23 17:49		2 1
redis	3					Enabled	08/15 16:57		2 1
mys	ql					Enabled	08/15 18:12		2 1
apac	che					Enabled	08/15 11:30		2 1
log						Disabled	06/29 16:06		2 1

### **Custom Pipeline Management**

Guance supports users to create custom Pipeline scripts. In the Guance workspace Log > Pipelines, click Create to create a new Pipeline file. It supports a variety of script functions, and it can directly view their syntax format through the list of script functions provided by Guance, and supports one-click collection of samples for analysis rule testing, adding multiple sample analysis tests and setting default Pipeline scripts.

ersion requirement.	Script Functions @
	✓ Point
Basic Settings	add_key() default_time() drop()
Filter @	drop_key() drop_origin_data()
redis × v	get kev() rename()
Pipeline Name	set measurement() set tag()
redis 5/256	✓ Grok
	add_pattern() grok()
Set as default Pipeline	v Time
Define Parsing Rules @	
1 0	adjust_timezone() datetime()
<pre>2 add_pattern("date2", "%(MONTHDAY) %(HOWTH) %(YEAR)?%(TIME)") 3</pre>	default_time() duration_precision()
<pre>4 grok(_, "\$(INT:pid):\$(WORD:role) \${date2:time} \$(NOTSPACE:serverity) \${GREEDYDATA:msg}") 5</pre>	parse_date() parse_duration()
<pre>6 group_in(serverity, ["."], "debug", status) 7 group_in(serverity, ["."], "gerbase", status)</pre>	timestamp()
<pre>group_in(serverity, ["*], "notice", status) group_in(serverity, ["#], "notice", status)</pre>	✓ Aggregation
10 11 cast(pid_ "int")	agg_create() agg_metric()
12 default_time(time) 13	✓ Other
	append() create_point() delete()
Sample Analysis Test @ Test Get a sample	evit() aroup between() aroup in
1 122:M 14 May 2019 19:11:40.164 * Background saving terminated with success	cond) group_octracent) group_int
	len() mquery_refer_table() nullif()
	query_refer_table() use()
	user_agent()
⊙ Add	
Add	Encode/Decode
Add Return Results	Encode/Decode     b64dec() b64enc() decode
Add Return Results	Encode/Decode      b64dec() b64enc() decode      url_decode() url_parse()
Add  Return Results  ( create_point null point (	<pre>&gt; Encode/Decode b64dec() b64enc() decode url_decode() url_parse() &gt; Turne</pre>
Add       Return Results       {       create_point       point {       dropped       false	<pre>&gt; Encode/Decode b64dec() b64enc() decode url_decode() url_parse() &gt; Type</pre>
Add       Return Results       {       create_point       point {       dropped       false       fields {	✓         Encode/Decode           b64dec()         b64enc()         decode           urt_decode()         urt_parse()            ✓         Type            cast()
Add       Return Results       {       create_point       point {       dropped       false       itelds {       message       122:M 14 May 2019 19:11:40.164 * Background saving terminated with success	✓ Encode/Decode           b64dec()         b64enc()         decode           urt_decode()         urt_parse()            ✓ Type         cast()            ✓ Network
Add       Return Results       (     reate_point       point (        dropped     false       fields (        message     122:M 14 May 2019 19:11:40.164 * Background saving terminated with success       msg     Background saving terminated with success       pid     122	✓ Encode/Decode     b64dec() b64enc() decode     url_decode() url_parse()     ✓ Type     cast()     ✓ Network     old(r) geo() url_decode()
Add     Return Results	<pre>&gt; Encode/Decode b64dec() b64enc() decode url_decode() url_parse() &gt; Type cast() &gt; Network cidr() geoip() url_decode()</pre>
Add     Return Results	✓         Encode/Decode           b64dec()         b64enc()         decode           urt_decode()         urt_parse()            ✓         Type         cast()            Network            oldr()         geoip()         urt_decode()           urt_parse()
O Add          Return Results         (         create_point       null         point {         dropped       false         fields (         message       122:M 14 May 2019 19:11:40.164 * Background saving terminated with success         msg       Background saving terminated with success         pid       122         role       M         serverity       *         status       notice	<pre>     Encode/Decode     b64dec()    b64enc()    decode     urt_decode()    urt_parse()     v Type     cast()     v Network     cidr()    geoip()    urt_decode()     urt_parse()     v String </pre>
<pre>     Add  Return Results  {         create_point null         point {             dropped false             fields {                 message 122:W 14 May 2019 19:11:40.164 * Background saving terminated with success             msg Background saving terminated with success             pid 122             role M             serverity *             status notice         }         reap for role False         role False</pre>	<pre>&gt; Encode/Decode D64dec() b64enc() decode url_decode() url_parse() &gt; Type cast() &gt; Network oldr() geoip() url_decode() url_parse() &gt; String </pre>
<pre>     Add  Return Results  {     create_point null     point {         dropped false         fields {             message 122:W 14 May 2019 19:11:40.164 * Background saving terminated with success             msg Background saving terminated with success             pid 122             role M             serverity *             status notice         }         name redis         tass {         </pre>	<pre>&gt; Encode/Decode D64dec() b64enc() decode urt_decode() urt_parse() &gt; Type cast() &gt; Network oldr() geoip() urt_decode() urt_parse() &gt; String conv_traceid_w3c_to_dd() cover()</pre>
<pre>     Add  Return Results</pre>	<pre>&gt; Encode/Decode D64dec() b64enc() decode urt_decode() urt_parse() &gt; Type cast() &gt; Network cidr() geoip() urt_decode() urt_parse() &gt; String conv_traceid_w3c_to_dd() cover() format_int() lowercase()</pre>
<pre>     Add  Return Results  {         create_point null         point {             dropped false             fields {                 message 122:M 14 May 2019 19:11:40.164 * Background saving terminated with success             msg Background saving terminated with success             pid 122             role M             serverity *             status notice</pre>	✓ Encode/Decode           b64dec()         b64enc()           decode()         urt_parse()           ✓ Type         cast()           < Network
Add     Return Results	✓ Encode/Decode           b64dec()         b64enc()           decode()         urt_parse()           ✓ Type         cast()           < Network
<pre>     Add  Return Results</pre>	✓ Encode/Decode           b64dec()         b64enc()         decode           urt_decode()         urt_parse()           ✓ Type         cast()           cast()         v           v Hetwork         cidr()           cidr()         geolp()         urt_decode()           urt_parse()         ✓         String           conv_traceid_w3c_to_dd()         cover()           format_int()         lowercase()           parse_int()         strimt()         trim()           uppercase()
<pre>     Add      Return Results      (             create_point null             point {             dropped false             fields {                 message 122:M 14 May 2019 19:11:40.164 * Background saving terminated with success             msg Background saving terminated with success             pid 122             role M             serverity *             status notice</pre>	✓ Encode/Decode           b64dec()         b64enc()         decode           urd_decode()         urd_parse()           ✓ Type         cast()           < Network

### Pipeline Official Library

Guance provides Pipeline official script library with inner log parsing Pipeline. In the Guance workspace Log > Pipelines, click Pipelines Official Library to view the inner standard pipeline official website file library, including nginx, apache, redis, elasticsearch, mysql and so on. You can choose to open any pipeline file, and create a

new pipeline file by cloning, which supports testing parsing rules through sample examples provided by Guance.

Basic Settings									
Filter @	Filter @								
jenkins ×									
* Pipeline Name									
jenkins		7/25							
* Define Parsing Bu	ules @								
<pre>grok(_, "%{TI default_time(   group_in(stat   group_in(stat   group_in(stat   3   3   3   3   3   3   3   3   3</pre>	<pre>MESTAMP_ISO8601:time) \\[id=%{GREEDYDATA:id}\\]\t%{GREEDYDATA:status}\t") time) us, ["WARNING", "NOTICE"], "warning") us, ["SEVERE", "ERROR"], "error") us, ["INFO"], "info")</pre>	L							
Sample Analysis Te	st 🕐 Test Sample Examples	Jenkins log							
1 2021-05-18 03 1 plugins	:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained:	Started al							
1 2021-05-18 03 l plugins	:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained:	Started al							
1 2021-05-18 03 1 plugins	:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained:	started al							
1 2021-05-18 03 1 plugins Return Results	:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained:	started al							
1 2021-05-18 03 1 plugins Return Results { create_point	:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained:	started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point { </pre>	<pre>:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null</pre>	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped</pre>	:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {     } }</pre>	:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             id</pre>	:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             message</pre>	:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             message         }     } }</pre>	:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: Started all plugins	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             message             status</pre>	<pre>:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: Started all plugins info</pre>	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             message             status         } </pre>	<pre>:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: Started all plugins info</pre>	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             message             status         }         name</pre>	<pre>:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: Started all plugins info jenkins</pre>	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             message             status         }         name         tags {     } }</pre>	<pre>:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: Started all plugins info jenkins</pre>	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             message             status         }         name         tags {             host         }     } } </pre>	<pre>:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: Started all plugins info jenkins datakit-pl-debug-567bc4ffcd-6h6j5</pre>	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             message             status         }         name         tags {             host         } </pre>	<pre>:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: Started all plugins info jenkins datakit-pl-debug-567bc4ffcd-6h6j5</pre>	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             message             status         }         name         tags {             host         }         time         time</pre>	<pre>:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: Started all plugins info jenkins datakit-pl-debug-567bc4ffcd-6h6j5 1621307338</pre>	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             message             status         }         name         tags {             host         }         time         time_ns     } }</pre>	:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: Started all plugins info jenkins datakit-pl-debug-567bc4ffcd-6h6j5 1621307338 53000000	Started al							
<pre>1 2021-05-18 03 1 plugins Return Results {     create_point     point {         dropped         fields {             id             message             status         }         name         tags {             host         }         time         time_ns     }     run error </pre>	<pre>:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: Started all plugins info jenkins datakit-pl-debug-567bc4ffcd-6h6j5 1621307338 53000000</pre>	Started al							
<pre>1 2021-05-18 03 1 plugins  Return Results  {     create_point     point {         dropped         fields {             id             message             status         }         name         tags {             host         }         time         time_ns     }     run_error }</pre>	<pre>:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false 32 2021-05-18 03:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: Started all plugins info jenkins datakit-pl-debug-567bc4ffcd-6h6j5 1621307338 53000000 null</pre>	Started al							
<pre>1 2021-05-18 03 1 plugins  Return Results  {     create_point     point {         dropped         fields {             id             message             status         }         name         tags {             host         }         time         time_ns     }     run_error }</pre>	<pre>:08:58.053+0000 [id=32] INFO jenkins.InitReactorRunner\$1#onAttained: null false</pre>	Started al							

Note: The official pipeline library file does not support modification.

## Generate Metrics

Guance supports configuring aggregation rules based on log data to generate new metric data, which is convenient for deeper data analysis.

Explorers	Pipelines	Generate Metrics Inc	dex NEW Blacklist Data	a Forward Access NEW		
⊕ Create						
Measurmer	nts	Metrics	Aggregate Method	Dimension	Frequency	Operate
redis_status	Ú.	redis_status_count	count	status	1minute	🔵 晷 ជ 🖉 🗊
service_unk	now	service_unknow_count	count	service	1minute	💽 晷 ជ័ 🖉 🗎
datakit_stati	us	datakit_status	count	status	1minute	💽 🛯 🖬 🖉 🗊
nginx_status	S	nginx_status	count	status	1minute	🚺 🔤 ជ័ 🖉 🗊
dbhost_lock	_time	dblock	max	db_host	1minute	💽 🛯 🛍 🖉 🗊
nginx_error_	log	status	count	host	1minute	🔵 🛯 ជ 🖉 🗊

## Index

Guance supports setting multiple log indexes, filtering qualified logs, and saving them in different log indexes. This helps users save log data storage costs by selecting different data storage policies for log indexes.

Guance supports binding external index data, including the index data of SLS Logstore, Elasticsearch and OpenSearch. After successful binding, you can query and analyze the external index data in the Guance workspace.

Explorers	Pipelines	Generate Metrics		Blacklist	Data Forward	Access NEW		Index using help
Log Index							Bind Inc	lex
Index	Name		Fill	er Condition			Data Storage Strategy	Operate
1 test_1			cor	ntainer_name = n	natch('dataflux.*')		7d	
2 default	L)						3d	

### Blacklist

Guance supports blacklist function, and reduces unnecessary log data reporting by adding log filtering rules.
Explorers	Pipelines	Generate Metrics	Index NEW	Blacklist	Data Forward	Access NEW	<ul> <li>Blacklist using help</li> </ul>
Ocreate							Import
Q Search I	blacklist name						
Sou	irce		Filter condit	ion			Operate
All s	sources		S status in	[ok]			_ ₪
							Total 1 item < 1 > Go to 1

## Data Forward

Guance supports forwarding logs, links, and user access data that meets certain criteria to Guance's object storage and external storage, including Alibaba Cloud OSS, AWS S3, Huawei Cloud OBS, Kafka message queues, etc.

Data Forward >	Forward rules					
total 68 rules				Q Rule nar	ne	Oreate Rule
Forward rul	es	Filter Condition	Data Type		Archive Type	Operate
aws-test01		\	Log		AWS S3	🖸 🗟 🖉 🗇
OSS-test1		Sin source in [mysql]	Log		Alibaba Cloud OSS	💽 🗟 🖉 🗇

## Data Access

Guance supports configuring corresponding log data access query scopes for different member roles within the current workspace. In Logs > Data Access, click Create Rule. In the pop-up new page, select the index, set the filtering criteria, desensitization field, regex and authorize the role object.

Note: If "Show rules impact me" is enabled, only data access rules associated with the current account role will be shown and the log content queried in the log explorer will be synchronized to be affected by it.

Explore	ers Pipelines	Generate Metrics	Indexes NEW	Blacklist	Data Forward	Data Access NEW		
•	Create Only	display rules related to me						
	54.54							
	Index	Query Con	dition	Apply Data	Masking	Role	Member	Options
	index:default	-status_co	de:[ "200" ]	yes		1	46	🍕 💽 💽 🖆
								Total 1 item

## **Application Performance Monitoring**

Guance supports the analysis and management of link data, tracks the time taken by all services to process requests and the status of requests, and can be used to monitor the performance of applications.

- Support reducing application performance data collection through sampling to save storage space.
- Support viewing key performance indicators of services, service call relationship topology, and ownership of different services' teams. Real-time monitoring of service performance indicators, their dependencies, and associated data to quickly identify and resolve service bottlenecks.
- Support querying and analyzing all collected and reported link data. Through flame graphs, intuitively view the context and execution efficiency of each span in the link. Support correlation analysis with user access monitoring and log monitoring to help quickly locate performance issues.
- Support viewing the historical trend and distribution of similar errors in the link to quickly identify error problems.
- Support obtaining associated code execution fragments of link-related spans through collecting profile data, visually displaying performance bottlenecks, and helping developers discover code optimization directions.
- Support generating new metric data based on existing data within the current space, facilitating the design and implementation of new technical indicators according to requirements.

#### Services

The **Service** in **APM** displays the list of all link services in the workspace, and can view the tracking metrics of all services: "average number of requests per second", "average response time", "P75 response time", "P95 response time" and "number of errors", which are sorted in descending order according to "number of errors" by

default. It supports clicking the name of key performance metrics to adjust the sorting display and searching, multi-label filtering and quick filtering, and binding performance view dashboards to display current service performance metrics.

Service O	verview	Traces	Error Tracking Profiling	Generate Metrics Data Forward		15m Past 15 minutes		*
≣ List R	Мар 🖪	• Q S	earch					~
Filter		Œ	Hidden total 16 services					± €
> type			Service	Average Number of Requests	Average Response Time	P75 Response Time	P99 Response Time	Number
> env			Skodo-x-backuplog	0.09 req/s	2.95 s	2.99 s	12.62 s	77(92.77
> version			😂 redis	1.98 req/s	3.57 ms	2.95 ms	20.14 ms	0(0.00%
> project			Kodox.nsq.consumer	160.94 req/s	4.05 ms	47 µs	25.6 ms	0(0.00%
> service			S redis.client	0.02 req/s	2.42 ms	2.19 ms	3.01 ms	0(0.00%
			🖶 kodo	207.81 req/s	4.92 ms	4.58 ms	34.56 ms	0(0.00%
			st pymysql	2.44 req/s	2.53 ms	2.78 ms	15.53 ms	0(0.00%
			🖶 df-front-api	0.29 req/s	333.28 ms	72.43 ms	900.23 ms	0(0.00%
			🕀 df-open-api	0.17 req/s	41.9 ms	44.82 ms	110.23 ms	0(0.00%
			🖶 urllib3	0.12 req/s	742.42 ms	97.77 ms	1.14 s	0(0.00%
			st df_rum_android	0.01 req/s	187.39 ms	209.06 ms	535.2 ms	0(0.00%
			🖶 inner-app	< 0.01 req/s	70.93 ms	81.66 ms	108.05 ms	0(0.00%
			🖶 df-inner-api	0.68 req/s	20.51 ms	21.38 ms	78.46 ms	0(0.00%
			S mysgl	50.96 req/s	2.39 ms	2.19 ms	20.96 ms	0(0.00%

## Service Map

Link service supports switching list to topology diagram mode to view the call relationship between various services. When you hover the mouse over the service node, you can view the "number of requests", "P50 response time", "P75 response time", "P99 response time" and "number of errors" of the service. It supports screening and displaying through different performance metrics, and customizing the color interval of link service performance metrics. It also supports adjusting the distribution map by highlighting, node size, filling items, thumbnails, etc.



## Overview

In the **Overview** of application performance monitoring, it is supported to view the statistics of online service quantity, P90 service response time, service maximum impact time, service error number and service error rate. At the same time, it is also possible to view the Top10 ranking of P90 service, resource and operation response time, as well as the Top10 ranking of service error rate, resource 5xx error rate and resource 4xx error rate.



### Traces

In the Traces for which performance monitoring is applied, it is supported to count the "Span number", "Request number", "Error Span number", "Error request number" and "Response time" of links within the selected time range, and display a list of all traces served. Guance provides three traces filtering viewing lists, namely "All Spans", "Service Top Spans" and "All Traces". It supports trace data search, multi-label filtering, quick filtering, data export, adding display columns and other operations, and also supports saving the current display content, time range and filtering conditions to snapshots and viewing historical snapshots.

Service Overview Trace	S Error Tracking	Profiling	Generate Metrics	Data Forward	15m	2024/04/03 17	:29:10 ~ 2024	/04/03 17:44	4:10 📌	4 ►	De C
<b>e</b> ~ Q										⊕ Ar	nalysis
Filter 🖉 🔟	Number of Span	Requests @	N	umber of Error Span	Error Re	quests @	Respons	e Time			
Q label Service	1 K 0 17:29 17:32:	40 17:36:20 17:	1 40 17:43:-				30 ms 10 ms	M	17:34 17:36 17:5	A	42 17:44
> Resource	count(trace_id	){status: ok}		17:30 1 Number of Error Spa	7:34:40	17:40	Ave	rage 🗧	P75 <b>=</b>	P90	
> Status	- countinee_io	Julaido: energ		Hamber of Endrope			<b>P9</b>	,			
> Host	All Spans Er	itry Span All Tra	ces					total 30.1	8 k results	Column	0
> Duration	Time ≑	Trace	ID	Service		Resource	e		Duration		
	04/03 17:44:10	.131809 241	16	≪c kor	, ÷	r df_		df_m	5.76 ms		
> HTTP Method	04/03 17:44:10	.131323 241	16	eg kor		df_			259 µs		
> HTTP Status Code	04/03 17:44:10	.131033 241	16	⊕ ko		api		a	557 µs		
	04/03 17:44:10	.130994 241	16	⊕ ko		POS .		tric	625 µs		
> HTTP Host	04/03 17:44:10	.118473 816	26	el kor		df_			318 µs		
> HTTP Boute	04/03 17:44:10	.118317 816	26	@ ko		api		а	484 µs		
	04/03 17:44:10	.118275 816	26	⊕ ko	· .	POS		tric	558 µs		
> HTTP URL	04/03 17:44:10	.118233 816	26	es koi	, 3	r df		.df_m	1.54 ms		

#### **Trace Details**

Click on the Trace list to view the details of the trace, including all relevant "attribute labels", "flame", "span list", "waterfall", "service invocation relation" and data such as hosts, logs, networks and code hotspots associated with the trace. It supports filtering Error Spans, searching for resource names or Span IDs, keyword searching and multi-label filtering in associated logs. Click log content to jump directly to log details page, which can combine log details to analyze trace performance, and support binding inner views for association analysis.

#### 1. Flame

Used to clearly show the flow and execution time of each span in the whole trace. At the same time, the corresponding service list and response time are displayed.

Flame  Span List	(4) Waterfull (4)	Service Invocation Re	lation				D Hide service list
🔺 Error Spans (0)	Q Search reso	ource or Span ID				Service -	Execution ① -
<b>350 μs</b>	400 µs	450 µs	500 µs	550 µs	600	🔯 kodox.nsq.c	87.11%
http.request POST /v1/write	a/metric				625 µs	🧾 kodo.nsq.pr	7.35%
apis.apiUploadData					557 µs	🜐 kodo-daily	5.54%
Publish df_metric_gu	ance				259 µs		

#### 2. Span List

Show a list of all the spans in the link, including "resource", "span number", "duration", "execution time" and "execution time percentage". Click **Span Name** to view the corresponding span details.

A 1	Error Spans (0)				
	Resource	Number of …	Duration(avg)	Execute time 🕤	Execution(%)
~	🥶 kodox.nsq.consumer	1	5.76 ms	5.76 ms	87.11%
	<pre>@@ df_metric_guance:df_metric_guance_chan</pre>		5.76 ms	5.76 ms	87.11%
~	📵 kodo-daily	2	591 µs	366 µs	5.54%
	POST /v1/write/metric		625 µs	68 µs	1.03%
	📵 apis.apiUploadData		557 µs	298 µs	4.51%
~	<pre>&amp; kodo.nsq.producer</pre>	1	259 µs	486 µs	7.35%
	<pre>@ df metric guance</pre>		259 µs	486 µs	7.35%

#### 3. waterfall

Switch to the waterfall chart to view the parent-child relationships between various resources. The waterfall chart displays Span data in chronological order based on the start time.

Flame @ Span List (4	) Waterfull (4)	Service Invocation Relation				
🔺 Error Spans (0) 🗌	Q Search reso	ource or Span ID				4
Resource		Execution	0 ns	1.64 ms	3.29 ms	4.93 ms
o 🜐 POST /v1/write/me	etric	1.03%				
👆 🌐 apis.apiUploadD	ata	4.51%				
👇 🔣 df_metric_guar	nce	7.35%				
占 📴 df_metric_gu	ance:df_metric_gu	ance_chan 87.11%	1			5.76 ms

#### 4. Service Invocation Relation

Used to view the invocation relationship between various services.

Flame @ Span List (4) Waterfull (4)	Service Invocation Relation	
Q Search service, resource or span id		
	-O- Desc	
	kodo-daily kodo.nsq.pro kodox.nsq.co	

# **Error Tracking**

In the application of Error Tracking of performance monitoring, it supports a quick view of the historical trend and distribution of similar errors in the link, and helps to

quickly locate performance problems. The error tracking explorer includes two lists: All Errors and Clustering Analysis:

- All Errors: Used to view all link errors that occur in the project application as a whole.
- Clustering analysis: Used to quickly view the most frequent link errors that need to be resolved.

Service Overview Traces	Error Tracking	Profiling Generate Metrics	Data Forward	15m	Past 15 minutes		★ 44 11 ►
<b>e</b> , ~ 0.						>>         >         >> <t< th=""><th>ର Analysis</th></t<>	ର Analysis
Filter 🖉 💽	All errors Pattern				total	385 results	Column
> Service	Time 🝦	Error Type	Service		Error Message	Resource	
> Resource	04/03 17:51:17.15	7488 *fmt.wrapError	es ko		baci it ty	work	:up1
	04/03 17:51:17.154	4768 *fmt.wrapError	eg ko		baci it ty	work	:up1
> Host	04/03 17:51:16.100	5001 *errors.errorString	es ko	÷	bac' ' :t ty	work	·- ˈ:upL
> Duration	04/03 17:51:10.090	0613 *fmt.wrapError	eg ko		baci it ty	work	upl
	04/03 17:51:10.087	7790 *fmt.wrapError	≪g ko		bac' 't ty	work	:upl
> Error Type	04/03 17:51:09.197	7239 *errors.errorString	eg ko	,	bac' 't ty	work	' ':upL
	04/03 17:50:47.649	9026 *fmt.wrapError	≪ ko		bac' : t ty	work	::upl
	04/03 17:50:47.646	5464 +fmt wrapError	I ≪ ko		har' it ty	work	laur

Click on any error link to view error details.

- Error profile: Based on error information error\_message and error type error\_type, the error links with high approximation are aggregated and counted, and according to the time range selected by the error explorer, the corresponding time interval is automatically selected to show the distribution trend of errors, which helps you intuitively view the time points or time ranges where frequent errors occur and quickly locate link problems.
- View Link: You can locate link problems by looking at the upstream and downstream Spans of the flame diagram of the wrong link.



## Profile

Profile supports collecting dynamic performance data of applications running in different language environments such as Java/Python, and helps users to view performance problems of CPU, memory and IO. In the Profile explorer, it supports operations such as searching Profile data, multi-label filtering, quick filtering, data export, adding display columns, etc. It supports saving the current display content, time range and filter conditions to snapshots and viewing historical snapshots.

Service Overview Traces	Error Tracking Profilin	g Generate Me	trics Data 🛛 🚍	15m Past 15 mi	nutes	* 4	<ul> <li>Ⅱ &gt;&gt; 30s €</li> </ul>
<b>G</b> ~ Q						(/) 5	ති Analysis
Filter 🖉 📧	Distribution						
> Service	2						
> Env	0						
> Version	17:27:40 17:28:40 17:29:40	17:30:40 17:31:40	17:32:40 17:33:40	17:34:40 17:35:40	17:36:40 17:37:40	17:38:40 17:39:40	17:40:40 17:41:40
> Host						total 43 results	Column
	Time 🗘	Service	Env	Version	Host	Language	Duration
> Language	04/03 17:41:57.628000	ruoyi-gate	prod-demo	2.0	cn-	java	1 min
	04/03 17:41:41.191000	ruoyi-auth	prod-demo	2.0	cn-	java	1 min
	04/03 17:41:34.876000	ruoyi-syst…	prod-demo	2.0	cn-	java	1 min
	04/03 17:40:57.628000	ruoyi-gate	prod-demo	2.0	cn-	java	1 min
	04/03 17:40:41.191000	ruoyi-auth	prod-demo	2.0	cn-	java	1 min
	04/03 17:40:34.876000	ruoyi-syst…	prod-demo	2.0	cn-	java	1 min
	04/03 17:39:57.628000	ruoyi-gate	prod-demo	2.0	cn-	java	1 min
	04/03 17:39:41.191000	ruoyi-auth	prod-demo	2.0	cn-	java	1 min
	04/03 17:39:34.876000	ruoyi-syst	prod-demo	2.0	cn-	java	1 min

#### **Profile Details**

Click on the Profile list to view the corresponding performance details, including property tags, performance flames, and operational information. Through the performance flame diagram, we can analyze the usage of CPU, memory or IO at the level of different types of code methods, and intuitively understand the execution performance and call of methods. At the same time, Profile provides analysis and view of execution data based on methods, libraries, threads and other dimensions, which shows some methods with large execution more intuitively and locates performance problems faster.

ruoyi-	system	Environment	prod	-demo	Versie	on: 2.0	1			2024/04/03 17:40:34 (3 minutes ago)	山 土 🗙
Perform	mance	Runtime info	移动	力端应用相	既览	Nginx	监控视图	R	edis	Mysql 监控视图 JVM 监控视图	My5 ≡   ⊕
Туре	CPU Time			110 ms	<b>~</b> S	elect				~	I Hide List
CPU	Time: 110 m	15								Dimension method ~	Execute Rate
JVM.	IVM		Thread.	.run()						Monitor::/Wait0	20 ms
JVM.	VM Oper	JVM.JFR	Age	Nio	Stat	Thread	PoolEx	StatsDi	Proces	.women.waity	201115
./usr/	lib/x86	./usr/lib/x86	Age	Nio	Stat	Thread	PoolEx	StatsDi	Proces	CgroupV1Subsystem::cpu_qu	10 ms
.java_	start()	.java_start()	Prof	Coll	Data	Schedu	ledThr	Non	Stat	.DefNewGeneration::unsafe_m	10 ms 📘
.VMT	hread::ru	.WatcherThrea	Prof	Coll	Data	Schedu	ledThr	Non	Thr.		10 mc
.VMT	hread::lo	.Monitor::IWait()	Prof	Has	Data	FutureT	ask.ru	Non	.JV	States (	io ins
.Eve	.Saf		Ope	Link	Data	Execute	ors\$Ru	Thre	.08	Klass::class_loader()	10 ms 📘
	.Saf		Flig	.Opt	Data	Syst	Metr	Thre		JfrPeriodicEventSet::requestU	10 ms 📘
	.NM		Plat	.Kla	.sen	Ope	Stat	Thre		E condică	10 ma
	.Thr.		Plat			Ope	Arra	Thre		Sendio()	
	.Jav		Req			Bas	Lea	.Opt		OopMapSet::find_map_at_offs	10 ms 🚺
	.fra		Req			VM	Lea	.Ins		MetricBucket. <init>()</init>	10 ms
	.Oo		Req			.JV	Buc.,	.Col		- Eventeviller	10 mg
	.00		Req			.0S:	Buc	.Def		Zevents::iogij	iums
			JVM			.Cgr	Metr.				
			.jfr					1.1			
			.Jfr								

## Generate Metrcis

Guance supports generating new metric data based on link data configuration

aggregation rules, which is convenient for deeper data analysis.

Service	Overview	Traces	Error Tracking	Profiling	Generate Metrics			
⊕ Crea	te							
Measurn	nents	Metri	cs	Aggrega	te Method	Dimension	Frequency	Operate
redis_cou	int	redis_	count_status	count			1 minute	🔵 🛯 ជ 🖉 🗊

## Data Forward

Guance supports forwarding logs, links, and user access data that meets certain criteria to Guance's object storage and external storage, including Alibaba Cloud OSS, AWS S3, Huawei Cloud OBS, Kafka message queues, etc.

Data F	orward > Forward rules				
total 68	rules			Q Rule name	Create Rule
	Forward rules	Filter Condition	Data Type	Archive Type	Operate
	aws-test01	¬ <sub>fit</sub> -	Log	AWS S3	西 🖉 🖬
	OSS-test1	Sili source in [mysql]	Log	Alibaba Cloud OSS	💽 🗟 🖉 🗊

# Real User Monitoring

Guance supports the collection of user access data for web, Android/iOS apps, and applets. It provides scenario analysis such as explorer, overview, performance analysis, resource analysis, and error analysis to help you quickly monitor user behavior and identify problems.

- Sampling is supported to reduce data collection for user access and save storage space. The generation of new metric data based on existing data in the current space is convenient for designing and implementing new technical metrics according to requirements.
- When creating applications, custom application IDs can be used as the unique identification of the current workspace, and different workspaces can use the same application ID for uploading and matching SDK collection data.
- Support "local deployment" and "public DataWay deployment" to receive RUM data.
- Access session playback is supported, which generates video records by capturing clicks, mouse movements, and page scrolling. This helps to deeply understand the user's operation experience and locate errors, reproduce, and solve problems in combination with user access performance data.
- Implementation of "browser plug-in" is also supported, using a browser to record user access behavior and create codeless end-to-end tests.

### Explorer

Guance user access explorer supports searching, multi-label filtering, quick filtering, and export viewing analysis of user access data in applications. Custom addition/deletion of display columns is supported. Clicking on session or page data will display details. Snapshotting is supported to save current display content, time range, and filter criteria to view historical snapshots.

Guance user access monitoring explorer includes session, view, resource, action, long\_task and error.

#### Session Explorer

Select **Session Explorer** in the upper left corner to query and analyze the session data when the user accesses. This includes the session duration when the user accesses (that is, the time from opening an application to closing), session type, number of page visits, number of operations, number of errors, initial page visits, and last page browsing by the user. The **Play** button can be clicked to view the session replay of the changed session.

Applications Explorers A	nalysis Dashboard 🗸 Track	ing Genera	te Metrics Data Fo	orw:	024/03/31 18:08:18 ~ 202	4/04/03 18:08:18 9	4 14	P €
Session View Resource	Action Long Task Error					>	<u>ଲ</u> ି ରୁ Ar	nalysis
Filter 2 3	Distribution							
> Env	0 03/31 18:00 0	4/01 06:00	04/01 18:00	04/02 06:00	04/02 18:0	00 04/03	06:00	
> Version	Time 🚖	Time Spent	Session View C	Session Action	Session Error C	Session First Vi	Session La	st Vi
> Session Type	04/03 11:12:25.823	131 ms	1	0	0	/?	/?	
> First View Path Group	<ul> <li>04/03 11:12:21.723</li> <li>04/03 11:10:15.923</li> </ul>	694 ms	1	0	0	/?	/?	
> Last View Path Group	04/02 15:16:11.592	15.23 min	3	1	0	/system/role	/system/r	ole
> OS	• 04/02 12:54:03.205	1.2 s	1	0	0	/?	/?	
> OS Major Version	04/02 12:51:48.764	249 ms	1	0	0	/?	/?	
> Browner	<ul> <li>04/02 09:39:59.944</li> </ul>	16.42 min	4	2	0	/ /system/dict	/ /system/d	lict
> blowser	04/02 09:07:55.313	16.07 min	1	0	0	1	1	
> Browser Major Version	● 04/01 11:00:23.238	1.48 s	1	0	0	/?	/?	
> Device	03/31 20:04:51.227     03/31 20:04:51.227	4.31 s	1	0	0	1	1	

#### View Explorer

Select **Session Explorer** in the upper left corner to query and analyze the session data when the user accesses. This includes the session duration when the user accesses (that is, the time from opening an application to closing), session type, number of page visits, number of operations, number of errors, initial page visits, and last page browsing by the user.

Applications Explorers A	nalysis Dashboard V Trad	cking Generate I	Vetrics Data Forward	∃ 3d 2024/03/31	1 18:08:18 ~ 2024/04/03	s 18:08:18 🖈	4 1	>>	0
<b>G</b> ~ Q						/	ର ପୁନା	nalysis	
Session View Resource	Action Long Task Error								
Filter 🖉 💽	Distribution								
Q label	10								
> APP ID	0								
> Env	03/31 18:00	04/01 06:00	04/01 18:00	04/02 06:00	04/02 18:00	04/03 06	.00		
						total 19 results	Column	1	0
> Version	Time 🝦	View Name	View Loading Type	Loading Time	Time Spent	Brows	ər		
> View URL Path Group	04/03 11:12:25.823000	/:30001	initial_load		131 ms	LBBR0	WSER		
> Loading Type	04/03 11:12:21.723000	/:30001	initial_load	221 ms	694 ms	Chrom	e		
· Louising () po	04/03 11:10:15.923000	/:30001	initial_load		270 ms	Firef	ox		
> OS	04/02 15:16:15.823000	/system/role	route_change	58 ms	15.16 min	Chrom	e		
> OS Major Version	04/02 15:16:14.670000	/system/menu	route_change	45 ms	1.15 s	Chrom	e		
	04/02 15:16:11.592000	/system/role	initial_load	622 ms	3.08 s	Chrom	e		
> Browser	04/02 12:54:03.205000	/:30001	initial_load	194 ms	1.2 s	LBBR0	WSER		

#### Resource Explorer

Select **Resource Explorer** in the upper left corner to query and analyze resource loading performance when the user accesses. This includes the resource address, status code, request mode, resource loading time, and so on.

Applications Explorers A	nalysis Dashboard 🗸 Trac	cking Generate Met	rics Data Forwa	∃ 3d 2024/03/31	18:08:18 ~ 2024/04/03 18:08	:18 🖈	4 14	e 0
B × Q							ତ୍ର Ana	alysis
Session View Resource	Action Long Task Error							
Filter 🖉 📧	Distribution							
Q label	200							
> APP ID	0					-		
> Env	03/31 18:00	04/01 06:00	04/01 18:00	04/02 06:00	04/02 18:00	04/03 06	:00	
> Version					total 2	71 results	Column	0
	Time 🜩	Resource URL Path	View Name	Duration	Resource Status	Resou	ce Type	
<ul> <li>Resource Type</li> </ul>	04/03 11:12:26.678000	/static/css/chun	/:30001	37.1 ms	-	CSS		
> Besource Method	04/03 11:12:26.677000	/static/js/chunk	/:30001	75.1 ms	-	js		
	04/03 11:12:25.958000	/static/js/chunk	/:30001	395 ms		js		
<ul> <li>Resource Status</li> </ul>	04/03 11:12:25.958000	/static/js/app.c	/:30001	355.7 ms	<del></del>	js		
> Resource UBL Path	04/03 11:12:25.957000	/static/js/chunk	/:30001	455.7 ms	-	js		
	04/03 11:12:25.930000	/browser-sdk/v3/	/:30001	4.3 ms	-	js		
<ul> <li>View URL Path Group</li> </ul>	04/03 11:12:25.927000	/static/css/app	/:30001	262.5 ms	<u> </u>	CSS		

### Action Explorer

Select **Action Explorer** in the upper left corner to query and analyze the operation behavior when the user accesses. This includes the operation type, operation content, and operation time when the user accesses.

Applications Explorers A	nalysis Dashboard ~ Tra	acking Generate	e Metrics Data Fo	orw:	24/03/31 18:08:18 ~ 2024/04/	03 18:08:18 🛪		• ••	0
E, × Q							2	Analys	is
Session View Resource	Action Long Task Error								
Filter 🖉	Distribution								
Q label	10								
> APP ID	0								
> Env	03/31 18:00	04/01 06:00	04/01 18:00	04/02 06:00	04/02 18:00	04/03	06:00		
> Version						total 13 results	Colu	mn	٢
	Time ≑	Action Type		Action Name	Vi	ew Name			
> Action Type	04/02 15:16:18.972000	click		admin	/:	system/role			
> Action Name	04/02 15:16:18.752000	click		admin	1	system/role			
7 Petion Hame	04/02 15:16:15.812000	click		角色管理	/:	system/menu			
<ul> <li>View URL Path Group</li> </ul>	04/02 15:16:14.546000	click		菜单管理	1:	system/role			
N 05	04/02 09:55:04.099000	click		收藏	/				
/ 03	04/02 09:55:01.024000	click		购买	1				
> OS Major Version	04/02 09:51:42.687000	click		收藏	1				

### Long Task Explorer

Select **Long Task Explorer** in the upper left corner to query and analyze the resource loading performance when the user accesses. This includes the resource address, status code, request mode, and resource loading time when the user accesses.

Applications Explorers A	Analysis Dashboard 🗸	Tracking Generate	e Metrics Data Fo	rw: <b>≣ 3d 2024</b>	/03/31 18:08:18 ~ 2024/04/	03 18:08:18 🖈		» 0
<b>B</b> ~ Q						>         ><	-ରୁ Ana	dysis
Session View Resource	Action Long Task	Error						
Filter 🖉 📧	Distribution							
Q label	5							
> APP ID	0							
> Env	03/31 18:00	04/01 06:00	04/01 18:00	04/02 06:00	04/02 18:00	04/03 0	6:00	
> Version						total 17 results	Column	0
	Time ≑	View Name			Duration			
View URL Path Group	04/03 11:12:26.7	11000 /:30001			60 ms			
> OS	04/03 11:12:26.4	26000 /:30001			283 ms			
	04/03 11:10:16.8	34000 /:30001			56 ms			
<ul> <li>OS Major Version</li> </ul>	04/03 11:10:16.5	19000 /:30001			312 ms			
> Prowpor	04/03 11:10:16.1	57000 /:30001			53 ms			
/ Drowadd	04/02 15:16:15.8	12000 /system/menu			61 ms			
> Browser Major Version	04/02 15:16:11.9	77000 /system/role			95 ms			

### Error Explorer

#### 1. All errors

Select **Error Explorer** in the upper left corner to query and analyze the code errors when users visit. This includes the page address, code error type, and error content when users visit.

Applications Explorers A	nalysis Dashboa	ard ~ Trac	king Generate N	Metrics Data	1h Past	1 hour		*	44 <u> </u>	l ⊳⊳ 3	10s 🛛 🗧
B, × Q									52	🕤 Ana	lysis
Session View Resource	Action Long	Task Error									
Filter 🖉 📧	Distribution										
Q label	3										
> APP ID	0	2									
> Env	17:20	17:25	17:30 17:35	17:40 17	7:45 17:50	17:55	18:00	18:05	18:10	18:15	ō
> Version	All errors	Pattern						total 5 result	s	Column	0
> Error Type	Time ≑		View Name	Error Type	Error Messa	je					
	04/03 18:	04:33.539000	/objectadmin/	NavigationDup	Avoided re	dundant navig	ation to cu	rrent location	: "/ot	jectadmi	n/
> View URL Path Group	04/03 18:	04:29.525000	/objectadmin/	NavigationDup	Avoided re	dundant navig	ation to cu	urrent location	: "/ot	jectadmi	n/
> OS	04/03 18:	04:01.500000	/objectadmin/	NavigationDup	Avoided re	dundant navig	ation to cu	urrent location	: "/ob	jectadmi	n/
	04/03 17:	47:38.920000	/scene/dashbo	Error	Request fa	iled with sta	tus code 40	94			
<ul> <li>OS Major Version</li> </ul>	04/03 17:	27:32.562000	/scene/dashbo	Error	Request fa	iled with sta	tus code 40	04			
> Browser											

#### 2. Pattern

Support fixed current time period based on the selected time range in the upper right corner. Retrieve 10,000 data points within this time period for cluster analysis. Aggregate errors with high similarity and extract and count common patterns for clustering. This helps quickly discover abnormal links and troubleshoot issues.

Applications Explorers A	nalysis Dashboar	d ~	Tracking	Generate M	etrics D	ata 🔳	1h Past 1 h	our		*	<b>44</b>	▶► 30s	0
E, ~ Q											¶.	-ରୁ Analysis	s
Session View Resource	Action Long T	ask Error											
Filter 🖉 🔣	Distribution												
Q label	1		8										
> APP ID	0	10.05		10.05	10.10	10.15	10.50	10.55		11.05			
> Env	13:20	13:25	13:30	13:35	13:40	13:45	13:50	13:55	14:00	14:05	14:10	14:15	
> Version	All errors	Pattern	by erro	r_message						3 patterns	s total 3 resu	ilts ①   i	0
> Error Type	Count 🖕		Patter	n									
	1		interv	ention: Ignore	ed attempt							-	-
View URL Path Group	1		Networ	k Error									
> OS	1		Cannot	read properti	es (								

### User Access Details

In the explorer, clicking on the data list will provide details of the user's access. This includes session replay, performance, extended fields, Fetch/XHR, errors and logs.

- Session replay: View the whole session process of the user, including the visited pages, operation records, and error data. Click to play the user's operation process.
- Performance: View the front-end page performance when the user accesses the specified application, including page loading time, content drawing time, interaction time, input delay, and so on.
- Extended Fields: Support for quick filter viewing by selecting extended fields, including Filter Field Values, Reverse Filter Field Values, Add to Display Columns, and Copy.
- Fetch/XHR: View every request made to the backend application when the user accesses, including the occurrence time, the link of the request, and the duration. Click Request to jump to the details page of the corresponding link.
- Errors: View the error data information, the type of error, and when the error occurred at this
  user access. Click on the error message to jump to the details page of the corresponding error.
  The function of Sourcemap is supported to restore confused code, which is convenient to
  debug and locate code problems in source code when troubleshooting errors.
- Log: Associated logs can be viewed based on current user access. Support keyword search and multi-label filtering of logs. Click **Logs** to jump to the corresponding log page.

View SPA Route Change /sys	tem/menu	Residence time:	1.15 s 🔹 🔵 offline	⊕ New i	ssue 💿 Ses	ssion Replay	t ×
Application: ruoyi_web_demo Env: pr	od-demo Version	: 3.0 OS: Window	Browser: Chrome	Country: - City: -	View Path: /syst	em/menu	
Loading Type: route_change Time Spe	nt: 1.15 s						
Source							
Gession: 2024/04/02 15:16:11	(a day ago)	Session durati	on: 15.23 min	: •			
Performance Attributes	Fetch/XHR (2)	Error (0)	Log (0) 基础设施	ELinux主机监控视图	Redis	Mysql 🖺 🗏	
CLS: 0.0045 Page loading time: 4	i ms						
Q Search							
🖌 resource 🔽 error 🗹 long_task	action		Found a total of	4 events, currently displ	aying on this page	50	~
Name	Latency	0 ns 62.8 m	s 125.6 ms 188.4 m	s 251.2 ms 314 ms	376.8 ms 439.6	i ms 502.4 ms	565.2 ms
Click on 角色管理 on page /syste	9 ms						
Long Task	61 ms						
/prod-api/system/dict/data/type/	87.9 ms						
/prod-api/system/menu/list	147,2 ms						

# Tracking

Guance supports users to create new tracking tasks through RUM and monitor the customized link tracking trajectory in real time. By preset link tracking trajectory, link data can be screened centrally, user access experience can be queried accurately, and loopholes, anomalies and risks can be found in time.

* Application	promotion		
* Name	web		
	3/64		
Tracking ID	rtrace_2e8d	681f	0
NPM Introduct			
NPM Introduct	the SDK, add the trac	ce ID using addRumGlobalContext(tr	ack_id,'value').
NPM Introduct After initializing import { da	the SDK, add the trac	ce ID using addRumGlobalContext(tr	ack_id,'value').
NPM Introduct After initializing import { da datafluxRum	t <b>he SDK, add the tra</b> d tafluxRum } from '@c .addRumGlobalContext	ce ID using addRumGlobalContext(tr :loudcare/browser-rum' :('track_id','rtrace_2	ack_id,'value').
After initializing import { dai datafluxRum For detailed steps,	the SDK, add the trac tafluxRum } from '@c .addRumGlobalContext please refer to: Trace Conf	ce ID using addRumGlobalContext(tr :loudcare/browser-rum' :('track_id','rtrace_2	ack_id,'value').

#### Automatic Call Tracing

Guance supports the implementation of **Browser Plug-in**, using a browser to record user access behavior and create codeless end-to-end tests.

## **Generate Metrics**

Guance supports configuring aggregation rules based on user access data to generate new index data, which is convenient for deeper data analysis.

Applications	Explorers	Analysis Dashboard V	Tracking	Generate Metrics			
Measurments		Metrics	Aggregate	Method	Dimension	Frequency	Operate
browser_count		browser_count_status	count			1minute	🔵 🔯 🛍 🖉 🗎

## Data Forward

Guance supports forwarding logs, links, and user access data that meets certain criteria to Guance's object storage and external storage, including Alibaba Cloud OSS, AWS S3, Huawei Cloud OBS, Kafka message queues, etc.

Data Forward > Forward rules								
total 68	rules			Q Rule name	Create Rule			
	Forward rules	Filter Condition	Data Type	Archive Type	Operate			
	aws-test01	Ÿī -	Log	AWS S3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	OSS-test1	Surce in [mysql]	Log	Alibaba Cloud OSS	💽 🗟 🖉 🗊			

## Synthetic Tests

Guance provides an out-of-the-box availability monitoring solution, which uses a global monitoring network to comprehensively monitor the network performance, network quality, and network data transmission stability of different regions and operators to various services by creating dialing tasks based on different protocols such as HTTP, TCP, ICMP, and WEBSOCKET. Through real-time monitoring and statistics of the availability of dialing and testing tasks, dialing and testing task logs, and real-time alarms are provided to help you quickly find network problems and improve network access quality.

## Synthetic Tests Management

In **Synthetic Tests**, click **Create** to add a new dialing test task. After creating a completed dialing task, you can analyze the response time and availability of the current dialing task from both the geography and trend dimensions on the overview page.

Task	Overview	Explorers	Self-built Node Management			
⊕ Ci	reate				Q Search	
	Name		URL	Туре	Status	Operate
	Guance		https://www.guance.com/	HTTP	start	

After creating a monitoring task, you can analyze the response time and availability of the current monitoring task from two dimensions: geography and trends on the overview page.



Synthetic Tests Explorer supports such operations as viewing, searching, multi-label filtering, shortcut filtering, data export, and adding display columns. It supports the statistics of dialing test data according to the selected time range through stacked histogram, save the current display content, time range, and filter conditions to snapshot and view the historical snapshot, and click the list data to view the details of dialing test results.

任务概览查看器自	建节点管理		15m 最近 1	5 分钟		* 44 1	30s   €
C ~ Q. HTTP 拔测 TCP 拔测 ICMP	拨测 WEBSOCKET 援测					>         >	<b>2</b> 分析
快援筛选 ℓ [0] > URL > 状态 > 副家/地区	分布因 20 0 10:18:20 10:19:20 10:20:20	<b>10:21:20</b> 10:22:20 10:23:20 10:24:20	10:25:20 10:26:20	0 10:27:20 10:24	8:20 10:29:20 1	0:30:20 10:31:20 共 <b>355</b> 条记录	10:32:20
> 省份	时间 💠	地址		响应时间	国家	省份	城市
> 城市	04/07 10:33:16 (6 秒前)	http://l		0 ns	cn	hainan	haikou
> 返回状态类	04/07 10:32:56 (26 秒前)	http://v n/		29.65 ms	cn	guangdong	guangzhou
	04/07 10:32:56 (26 秒前)	http://		17.09 ms	cn	guangdong	guangznou
	04/07 10:52:54 (28 校前)	http://		100.79 ms		sichuan	chongqing
	04/07 10:32:34 (26 校前)	http://		124.73 ms	cn	sichuan	taizhou
	04/07 10:32:54 (29 秒前)	http://		33.89 ms	cn	zhejiang	taizhou

### Self-built Node Management

Guance supports self-building of new dialing and testing nodes on a global scale. After creating the self-built nodes, the configuration information of the designated nodes is obtained through "Get Configuration" and configured in DataKit. After the configuration is completed, you can choose to use it in dialing and testing.

Task	Overview	Explorers	Self-built Node Management		
⊕ C	reate				
Node			Region	ISP	Operate
AWS-	S		Singapore, Singapore	aws	<b>a</b>
Hong	Kong-Hong Kong-	aliyun	Hong Kong, Hong Kong	aliyun	<b>E D</b>

## Security Check

Guance supports timely monitoring, inquiring, and associating all inspection events through Security Check. It helps improve inspection quality, problem analysis, and problem handling ability while finding loopholes, anomalies, and risks in time. And it supports the generation of new index data based on the existing data in the current space, which is convenient for designing and implementing new technical metrics according to requirements.

# Overview

In Security Check > Overview, you can view the overview of security check events in different hosts by screening hosts, security check levels, and security check categories, including the number of security check events in different levels and visual chart analysis, and the ranking list of security check events in different categories and rules.



## Explorer

In Security Check > Overview, it supports viewing, searching, multi-label filtering, quick filtering, data export, and adding display columns to reported security check events. Support the statistics of security check data according to the selected time range through stacked histogram, save the current display content, time range, and filter conditions to snapshot and view the historical snapshot, and click the list data to view the details of security check.

Explorers Overview Gene	erate Metrics			10h	2024/04/07 00:00:00 ~ 2024/04/07	10:56:34	*	4 <b>b</b> bb 6
<b>G</b> ~ Q							∏≣	lanalysis
Filter 2 IS  Host Category Level	Distribution 2 0 04/07 00:30 01:00 01:30	02:00 02:30 03:00 03:30	04:00 04:30 05:00	05:30	06:00 06:30 07:00 07:30	08:00 08:30 total <b>6</b> res	09:00 sults	0 09:30 10:00 Column @
	Time ≑	Category	Host		Message			
	04/07 1 (34 minutes ago)	system	df- ,	003	3 端口被打开, 25			
	04/07 04:1 (7 hours ago)	storage	hz-,	s	新路径被挂载了:,			., ds/2bb6_
	04/07 04:1 (7 hours ago)	storage	hz-,	s	路径被卸载了 1 ,			., ods/4789
	04/07 02:4 (8 hours ago)	system	hz-,	s	端口被打开, 38			
	04/07 02:1 (9 hours ago)	system	df-,	004	4 端口被打开, 4;			
	04/07 02:1 (9 hours ago)	system	hz-,	s				

# Security Check Details

Click on the inspection event you want to view, and in the underlined details page, you can view the handling suggestions for this security check event, including the theoretical basis, risk items, audit methods and remedial measures, and at the same time, you can view the related inspection events and hosts, etc.

wam) (41 minutes ago) 主	机新端口被打开				đ	×
Host df-	System	ry		Rule 0200-listening-po	orts-add	
Information						
namespace:securitysearches	source:syste	em category:sys	tem cluster_na	me_k8s:k8s-prod	create_time:1712456606363	9+
Message						
端口被打开, 2:						
Suggestion Related check	(1) Host	•				₽
Host ~						
Time ≑	Category	Security Ch	Message			
04/07 1 (41 minutes ago)	system	df-saas-p	端口被打开,2!			

# Generate Metrics

Guance supports configuring aggregation rules based on security check data to generate new metric data, so as to facilitate deeper data analysis.

Explorers	Overview	Generate Metrics				
Measurmen	ts	Metrics	Aggregate Method	Dimension	Frequency	Operate
network		network_category	count		1minute	🔵 🛯 🏦 🖉 🔒

# CI Visibility

Guance supports visualization of CI processes and results built into Gitlab/Jenkins. You can directly view CI results in Gitlab/Jenkins through the CI Visibility feature of Guance. The process of CI is continuous integration. If developers encounter problems when pushing code, they can check the pipeline of all CI and its success rate, failure reasons, and specific failure links in Guance to help you provide code update guarantee.

## Overview

In **CI Visibility > Overview**, you can switch to the overview view of Pipeline and Job in Gitlab/Jenkins, including the number of executions, success rate, execution time, and the number of execution failures.



## Explorer

In **CI Visibility > Explorer**, It supports for switching the entire process of viewing and analyzing Gitlab/Jenkins Pipeline and Job, support for search, multi-label filtering, shortcut filtering, data export, and adding display columns. It also supports stacking histogram to count CI process according to selected time range, saving current display content, time range, and filtering conditions to snapshot and viewing historical snapshot.

Explorers Overview					1d 2024/04/06 11:1	1:47 ~ 2024/04/07 1	1:11:47 🖈	44 <b>•</b> ••	ć
E, ~ Q.							>         > <th>ରୁ Anal</th> <th>lysis</th>	ରୁ Anal	lysis
Gitlab Pipeline Gitlab Job Je	enkins Pipeline Jenkins Job								
ilter 🖉 📧	Distribution								
> CI status	2								ſ
> Duration	0								
> Pipeline Name	11:00 12:30 14:00	15:30 17:00	18:30 20:00	21:30 23:00	00:30 02:00	03:30 05:00	06:30 08:0	00:30	
> Pipeline ID							total 5 results	Column	
	Time ≑	Pipeline Name		Duration	Pipeline ID	Commit			
> Ref	04/07 10:26:19.967388	clo	for	12.72 min	194294	Merge b	1)	y'…	80
	04/07 10:26:13.318395	clo	. kit	19.87 min	194187	Merge b	1'	to 🗢 987b	15
	04/07 04:13:45.282401	mid	fu	25.63 min	194280	优化 PIF	_ 0	n 0ce7	/5a
	04/07 04:04:19.918516	mid	-fu	11.92 min	194279	优化 PIF	, 0	n 🗢 0ce7	/5a
	04/06 19:36:17.661714	clo		8.33 min	194270	Merge b	0	no - e4d3	ef5

# **CI** Details

Click on the CI Visibility process you want to view, and in the underlined details page, you can view the CI process and results through the flame diagram and Job list, including the duration of Pipeline, all Jobs, and their duration, etc. At the same time, you can view the associated logs, hosts, etc.

success 🖊 cloi		् client है dev			<u>ث</u>
Information					
namespace:logging	searches:source:git	tlab_pipeline author_email:1	ci_status:success c	luster_name_k8s: <b>k8s-prod</b>	22+
Flame 🥥 Job L	List (2)			B Hide service	) lict
🔺 Error Jobs (0)	Q Search			Service	Execution
	3.33 min	6.67 min	10 min	[] pipeline	<
cloudcare/cloudcare-1	forethought-webclient		12	.73 min	0.01%
buildTesting			12	.73 min	100-8
61.					
(≡)					
$\bigcirc$					
$\odot$					
Details Logs (2)	$\odot$				
<i>x</i>					
1	logging				
namespace	COGGILIG				

### Monitors

Guance has powerful anomaly monitoring capability, it supports custom monitors and provides more than 20 kinds of monitoring templates, including Docker, Elasticsearch, Host, etc. With alarm notification and related events, it can help users quickly find problems, locate problems, and solve problems. At the same time, Guance provides intelligent inspection function based on intelligent algorithms to help users foresee potential problems of infrastructure and applications in advance. In addition, Guance supports SLO (Service Level Objective) monitoring to accurately control service levels and targets.

## Monitors

In the Guance **Monitors**, it supports creating a new custom monitor, creating a new monitor from a template, viewing and restoring the historical configuration of the monitor, and managing the monitor, including filtering alarm policies, searching, importing/exporting, enabling/disabling, editing, deleting, manually triggering monitor detection, viewing related events, setting alarm policies, and other operations.

Monitor Intelligent I	nspection SLO	Mute Management	Alarm Policy Management	Notification Target Management				
	ate from Template							
Q Search Monitor name								
Filter	(I Hidd	ien total 540 monitors						Ŧ
> Alarm Policy		Monitor Name		Alarm Po	icy	Operat	te	
> Status		CPU IOwait of Host {{ hos	it }} is too high.	Host Dete	ction Library 🍖	GCY		:
> Tag		The remaining inode of the	e file system on Host {{ host }} is	too low. Host Dete	ction Library 🎪	GCY		:
> Monitor Type		The memory swap usage	of Host {{ host }} is too high.	Host Dete	ction Library 🍖	GCY		:
		The remaining disk space	of Host {{ host }} is too low.	Host Dete	ction Library 🎪	GCY		:
		The memory of Host {{ ho	st }} is less than 100M.	Host Dete	ction Library 🎄	GCY		:
		The CPU usage of Host {{	host }} is too high.	Host Dete	ctionLibrary 🎪	GCY		1
		The memory usage of Hos	st {{ host }} is too high.	Host Dete	ctionLibrary 🆚	GCY		:
		The average CPU load of	Host {{ host }} is too high.	Host Dete	ction Library 🏚	GCY		:

### Monitor Template

#### Template

A variety of monitor templates are built into Guance, which can be used out of the box, including dozens of templates such as host, Docker, Elasticsearch, Redis, Alibaba Cloud and Flink monitoring. After successfully creating a new template, the corresponding monitor will be automatically added to the current workspace.



#### **Custom Templates**

In the Monitor list, you can save the created monitor as a template. Based on this type of template, you can quickly edit monitor configuration conditions and quickly create monitor monitors of the same type.

Monitor > Create			
🔀 New Monitor	Templates	22 Custom Templates	
Q Enter Name to search			
> Template	total 2 monitors		Select All
> Creator			රැලාන
> Updater	Template: CSS for ES Query: M::'disk':(COUNT_DISTINCT('used	')) BY 'host' 🗍	
	Tampiata: CSS for ES		
	Query: M::'huaweicloud_SYS.ES':(LAST(s	status_max')) BY `cluster_id' 🗍	

#### **Custom Monitor**

Guance supports a variety of custom monitors, allowing users to customize and configure detection metrics and trigger conditions and receive alarm notifications at

the first time by setting alarms. In **Monitors**, click **Create** to customize and add a new monitor.

Detection Rules	Descriptions
Threshold Detection	Threshold detection performs anomaly detection on metric
	data based on the set threshold.
Log Detection	Log detection is used to monitor all log data generated
	based on log collectors in the workspace.
Anomaly Detection	Anomaly detection is to detect the sudden abnormal
	performance of metrics based on historical data, which is
	mostly suitable for business data and short time window
	scenarios.
Change Detection	Change detection is to detect the abnormal data points of
	the metrics based on the dynamic threshold range, which is
	suitable for the trend stabilization timeline.
Outlier Detection	Outlier detection can detect whether there is outlier
	deviation in the metric/statistical data of the detected object
	under a specific grouping by the algorithm.
SecurityCheck	Security check is a series of checks on systems, software
Anomaly Detection	and logs through a new type of safety script, which
	supports discovering facility defects and potential safety
	hazards and taking effective measures in time.
APM Metric	Based on application performance monitoring data, APM
Detection	metric detection sets threshold rules and detects abnormal
	situations.
RUM Metric	Based on application performance monitoring data, RUM
Detection	metric detection sets threshold rules and detects abnormal
	situations.
Process Anomaly	Based on infrastructure object data, process anomaly
Detection	detection is used to detect process data regularly and

	understand process anomaly.
Infrastructure Active	Infrastructure survival detection sets survival conditions
Detection	and monitors the stability of infrastructure.
Testing Anomaly	Based on the availability monitoring data, testing anomaly
Detection	detection sets threshold rules and detects abnormal
	conditions.
Network Anomaly	Network data detection is based on network data, setting
Detection	threshold rules to detect the stability of network
	performance.
Third-party Event	To generate Guance event data, send the exception events
Check	or records generated by a third-party system to a specified
	URL address using the POST request method to an HTTP
	URL address using the POST request method to an HTTP server.
Composite Detection	URL address using the POST request method to an HTTP server. Combine the results of multiple monitors into a single
Composite Detection	URL address using the POST request method to an HTTP server. Combine the results of multiple monitors into a single monitor through an expression, and alert based on the

nitor	> Create			
	X New Monitor	Templates	Se Custom Templates	
13				
6	Threshold Detection Data Range: All Description: Anomaly detection of in	dicator data based on the set threshold		
^	Anomaly Detection Data Range: Metric(M) Description: Anomaly detection of si business data and short time window	udden abnormal performance of indicators base	d on historical data is mostly suitable for scenarios with	
1	Change Detection Data Range: Metric(M) Description: Detecting abnormal dat	a points of indicators based on dynamic thresho	Id range is suitable for trend stabilization timeline	
<b>*</b>	Outlier Detection Data Range: Metric(M) Description: Detect whether there is	outlier deviation in the indicators/statistics of the	e detected objects under a specific group	

## Intelligent monitoring

Intelligent monitoring provides a mechanism for quickly identifying abnormal nodes for business analysis, user behavior analysis, and root cause analysis of failures. It is suitable for business metrics and metrics with high volatility. By analyzing the scenarios, it constructs a key dimension for locating multidimensional metrics. After locating the business dimension, it quickly analyzes and identifies exceptions based on the service calls and resource dependencies within microservices.

Monitoring is configured using detection rules such as Host Detection, Logs Detection, APM Detection and RUM Detection. Set the detection scope and notification recipients, and use intelligent detection algorithms to identify abnormal data and predict future trends.

Monitor	Intelligent monitoring	Intelligent Inspection	SLO	Mute Management	Alarm Policy Management	Notification Target Managemen	t		
Q Search	Intelligent monitoring name								
Filter	I H	dden total 8 monitors						± Im	port
> Alarm Po	Dlicy	Monitor Name				Alarm Policy	Oper	ate	
> Status		RUM detection				default 🦚	GCY		
> Tag		APM Detection				default 🦚	GCY		
		Logs Detection				default 🏚	GCY		1
		Host Detection				default 🦚	GCY		1

## SLO

Guance SLO monitoring tests whether the availability of system services meets the target needs around various metrics of DevOps. It can help users monitor the service quality provided by service providers and protect service providers from SLA violations. Export dashboards and view associated events.

Monitor	Monitor Intelligent Inspection SLO		Mute Management		Alarm Policy Management	Notification Target Management				
⊕ Cr	eate									
Q Sea	rch SLO name									
	Name		Monitor	Target	Error Burndown (7d)	Compliance Ra	Error Budget (7d)	Operate		
	Ruoyi08-System Service SLO		1	99%	0 minutes	100 %	1 hour 40 minutes	🔵 🖉 🖻 凸 🖞		

## SLO Management

Target       Target       0-100       %       Minimum Target       0-100       %         SLI       Please select       Monitor uptime will be used as a measure.       Monitor uptime will be used as a measure.         eption Notice Receiver       Select notice receiver          Notice Mute       Within 1 hour       , send no notice to the same alarm.         Detection Frequency       5 minutes
Target Target 0 -100 % Minimum Target 0 -100 %   SLI Please select Monitor uptime will be used as a measure.  eption Notice Receiver Select notice receiver  Notice Mute Within 1 hour , send no notice to the same alarm. Detection Frequency 5 minutes
SLI       Please select         Monitor uptime will be used as a measure.         eption Notice Receiver         Select notice receiver         Notice Mute         Within 1 hour         , send no notice to the same alarm.         Detection Frequency         5 minutes
Monitor uptime will be used as a measure.         eption Notice Receiver         Select notice receiver         Notice Mute         Within 1 hour         , send no notice to the same alarm.         Detection Frequency         5 minutes
eption Notice Receiver     Select notice receiver <ul> <li>Notice Mute</li> <li>Within 1 hour</li> <li>, send no notice to the same alarm.</li> </ul> <li>Detection Frequency 5 minutes          <ul> <li>Image: Select notice receiver</li> </ul> </li>
Notice Mute     Within     1 hour     ~       Detection Frequency     5 minutes     ~
Detection Frequency 5 minutes ~
Description Please enter
0/256

In Monitor **SLO > Create SLO**, you can customize the task of creating a new SLO.

Note: Once the SLO configuration is saved, the SLO name, target and detection period cannot be changed.

Field	Description
Name	SLO task name. Support up to 64 character input.
Goals	<ul> <li>Percentage of SLO goals (0-100%), supporting the selection of two goals, including "goal" and "minimum goal":</li> <li>Goals: An unhealthy SLA is considered when the SLO percentage is &lt; the target percentage and &gt; = the minimum target percentage</li> <li>The minimum target: When the SLO percentage is less than the minimum target percentage, it is considered as a substandard.</li> </ul>

SLI	An metric to measure the stability of a system. Support user-defined addition of one or more monitors as metrics.
Abnormal Notification	Alarm notification object, support workspace members, mail groups, enterprise WeChat robots, DingTalk robots, Lark robots, SMS and other notification
Object	methods.
Mute Notification	Notification is not sent for the same alarm within the mute time range. If the same event is not very urgent, but the alarm notification frequency is high, the notification frequency can be reduced by setting the notification mute. <b>Note:</b> <b>Events will continue to be generated after notification</b> mute <b>is set, but</b> <b>notifications will not be sent again, and generated events will be stored in</b> <b>event management.</b>
Detection Frequency	SLO detection frequency, that is, to monitor whether abnormal events occur in the monitor of SLO task with a certain time range as a period. At present, it supports two detection frequencies: 5 minutes and 10 minutes.
Description	Descriptive information, up to 256 characters.

## Mute Management

Mute management is used to manage all mute rules in the current space. You can quickly view the type, mute range, label, mute time, and operator of mute rules. You can also search, edit, delete, disable/enable mute rules.

Note: the Mute Rules Management list only displays silent rules that have not expired.

Monitor	Intelligent Inspection	t Inspection SLO Mute Management		nent	Alarm Policy Management	cation Target Management			
⊕ Create	e Mute Rule								
Q Search									
Mute Sco	ope	Mute T	уре	Repeat			Mute Time	Operate	
The CPU	usage of Host {{ host }} is	Custon	n	Saturday,	, Sunday		00:00~23:59 (UTC+08:00)	GCY C	

To configure Mute Rules, click Create Mute Rule, and fill in the Mute Range, Label, Mute Time, Mute Notification Object, Notification Content, Notification Time, etc. Note: muteness will only take effect if the conditions of **Mute Range** and **Label** are met at the same time.

e Management > C	reate Mute F	Rule					
Choose what to sile	ence						
By Monoitr Name	By Alarm I	Policy	By Monoitr Tag		Custom		
* Select the monitor	to mute						
Select						~	
> Advanced							
* Define Silence Tir	ne						
Only Once	Repeat						
Zone	(UTC+08:00	) Asia/Shangh	nai	~			
Start Time	Start Date		Start Time				
End Time	End Date		End Time				
Shortcut Options	1 hour	6 hours	12 hours	1 day	1 week		
Configure the notifie Notice Receiver Select notice receiver	cation object					~	
Notice Content							
Enter notice content							
						0/256	
Notice Time							
	×						
Save	Cancel						

# Alarm Policy Management

Guance supports the alarm policy management of the detection results of the monitor. By sending alarm notification emails or group message notifications, you can know the abnormal data monitored in time, find problems, and solve problems. After configuring the alarm policy, you can perform a quick filter view in the monitor. Note:

- each monitor must select an alarm policy when it is created, and "Default" is selected by default;
- When an alarm policy is deleted, the monitor under the alarm policy will be automatically classified under "default".

Monitor	Intelligent Inspection	SLO	Mute Management	Alarm Policy Management	Notification Target Management	
⊕ c	reate					
a se						
	Name			Associate M	onitor Alarm Mute Time	Operate
	Oracle			8	15 minutes	fo
	Host Detection Library			8	2	<b>fo</b> 🗇
	Amazon MediaConvert			1	15 minutes	<b>6</b> 🗇
	AWS Timestream			4	2	<b>6</b>

# Notification Object Management

Guance allows for setting alarm notifications for notification targets. The supported

notifications are:

- Space Member
- Mail Group
- Dingtalk Robot
- WeCom Robot
- Lark Robot
- Webhook Customization
- SMS
- HTTP Request

Enter the required information on the corresponding page, and click Confirm.

Monito	r Intelligent Inspection	SLO	Mute Management	Alarm Policy Management	Notification Target Management		
⊙ c	ireate						
	Name					Operate	
	🍑 DQL						
	🖧 Function					_ ₫	
	C. DQL					2 0	
	MataKit					2 0	
	DataFlux					2 8	

# Workspace Management

Workspace management is the setting, management, and operation of the current workspace. After joining the workspace and being assigned permissions, you can change the basic information, members and permissions of the workspace through Management.

### **Basic Settings**

In the workspace **Management> Settings**, you can view the current Guance version, workspace name and ID, Token, number of members, security operation audit, and other information. Support administrators to modify space names, change Token, configure migration (import/export dashboard, custom explorer, monitor configuration files), set key metrics of war room, configure function menus, invite approval, MFA, set IP whitelist, delete measurements, delete custom objects, and other operations. Owners can change data storage policies.

# Attribute Claims

In the Guance workspace **Management** > **Attribute Claims**, you can see the attribute information in JSON format. Guance will default two fixed attribute fields organization and business.

- organization: automatically generated by the system, that is, organization ID, which is the unique ID generated by the billing center account bound by the current workspace. All commercial workspaces will belong to one organization. If the billing accounts bound by multiple workspaces are the same, the IDs are also the same;
- business: deletion is not supported, with business attributes, you can filter and view in the workspace list.

```
      Workspace attribute information, built-in two attribute fields organization, and business, support for adding custom attributes

      1
      {

      2
      # Organization ID, automatically get the organization ID of the boss center account bound by the workspace and fill it in

      3
      "organization": "C7643(

      4
      # Business attributes

      5
      "business": "*,

      6
      }
```

# Field Management

Guance supports unified management of field data in the current workspace, including system fields and custom fields. You can view field descriptions in scene chart queries, monitor detection metrics, use the simple query mode of DQL queries, and analyze metrics, among other features. This helps you quickly understand the meaning of fields and apply them.

To create a new field, go to **Management > Field Management** in the workspace and click **Create** and enter the field name, field type, and field description in the pop-up dialog box.
				Q Query field name	۵
Field Name	Alias	Туре	Unit	Field Source	Description
action_error_count	Action Error Count	float	2	RUM	Count of all errors collected f or this action.
action_id	Action ID	string	-		Unique ID generated when th e user operates on the page
action_long_task_count	Action LongTask Count	float	-	RUM	Count of all long tasks collect ed for this action.
action_name	Action Name	string			Action name
action_resource_count	Action Resource Count	float	-	RUM	Count of all resources collect ed for this action.
action_type	Action Type	string	-	*	Type of the user action, e.g. c lick/hover/
active	Active Pod	int	-	Basic Objects	The number of running Pods

### **Global Labels**

Global tags refer to tags that can be directly accessed within the Guance workspace. With global tags, data that meets certain criteria can be classified, filtered, and linked together to achieve global data linkage.

To create a new tag, go to Workspace Management > Global Tags and click on Create New Tag. In the pop-up dialog box, enter the tag name, description, and select a color to create a new tag.

•	New Label		Q Search labels	
	label	Description	Operat	te
	MySQL		<u>e</u> t	đ
	Redis		<u>e</u> t	đ
	Nginx	<i></i>	<u>e</u> 1	đ
	Infrastructure	a.	<u>e</u> t	Ì
	NSQ		_ 1	đ

### Member Management

In **Management > Member Management**, you can display the information of all members of the current workspace. It supports the unified management of all members of the current workspace, including setting role permissions, inviting members, and setting permissions for members, configuring member groups, setting SSO and setting member alias.

	D Management Team Management				
Q Search email, username, nic	skname or login type				
Filter	I Hidden total 3				
> Identity Provider	UserName	Role ⑦	Team	Identity Provider	Operate
> Role	GCY GCY	Owner			Ð
> Login Type	Cł	yu			<i>4</i> ,
~ Team	chuw ch	yu Administrator		default	
	Ct	yu			2 0

### Role Management

In **Management > Role Management**, four member roles are provided by default: owner, administrator, standard member, and read-only member. You can create new roles for users and give permission scope to roles to meet the permission needs of different users.

- Owner: The owner of the current workspace has all the operation permissions in the workspace, including adjusting the role permissions of other members;
- Administrator: Administrator of the current workspace has read and write permissions of the workspace. The role is able to adjust the permissions of other member roles except Owner.
- Standard: Standard member of the current workspace have read and write permissions to the workspace.
- Read-only: Read-only member of the current workspace can view the data of the workspace, and has no write permission.
- Custom Role: You can customize the permission range of a role according to your requirements.

Note:

- If the current workspace is upgraded to commercial version, upgrading to Administrator requires the owner to pass the verification in the expense center before it can take effect.
- Read-only members do not have permission to view member management lists.
- Distinguishing by tags is supported by four SSO members.

Add Role     What is role Management?		
Q Search Role		
total 5 roles		
Role	Member	Operate
Owner	1	
Administrator	1	
Standard	0	
Read-only	1	
Custom	0	_ ₪

## SSO Management

Guance supports SSO management based on SAML, OIDC/ Oauth2.0 protocol. It supports enterprises to manage employee information in local IdP (Identity Provider). Without user synchronization between Guance and enterprise IdP, enterprise employees can log in and access Guance through designated roles.

#### Enable SSO Login

Go to Guance workspace Management > Member Management > SSO Management, select SAML or OIDC, and set SSO for employees.

• SAML

້ວ User SSO	SAML OIDC		土 Imp
る Role Mapping	21. default		CO Update (
	Member: 1	Last modified: (5 days ago)	Role Mapping: Enable \vee 🔘
		+ Add Identity Provider	

• OIDC

Members > SSO		
້ວ User SSO	SAML OIDC	ی Import ک
ℜ Role Mapping	Second Contract Contr	Last modified: (a few seconds ago) Role Mapping: Disable V
	22 odic-test	Update 💿
	Member: 0	Last modified: of (a month ago) Role Mapping: Disable V

#### Enable SAML Mapping

In the Guance workspace Management > Member management > SSO

Management > Role Mapping > Add, enable role permissions and mapping fields.

Members > SSO							
o User SSO	Add What is role mapping?		Identity Provider	Identity Provider	×	Q Search for roles, attribute	fields, or attribute values
ବଧ୍ଯ Role Mapping	Role	Attribute Field	Attrib	ute Value	ì	Identity Provider	Operate
	Administrator	department	produ	ct		default	2 1

## API Key Management

Guance supports obtaining and updating the data of the Guance workspace by calling the Open API interface. Before calling the API interface, you need to create an API Key as an authentication method.

To create an API Key, go to **Management > API Key Management** in the Guance workspace, and click **Create** in the upper right corner. Enter the Key name to create it.

Note: Only administrators and owners can edit the API Key.

Q Search				
total 1				
Name	Key ID	Кеу	Start Time	Operate
Guance	IxvmLcB TzF	G26ofnp *****ZEfC	2023/10/23 19:55:54	<u>.</u> 回

# Invited history

In the Guance workspace **Management** > **Invited history**, supports viewing all members' invitation actions in the current workspace, including their email, grant roles, operator, send time, status, approval and other information.

total 7				Status All	~	Q Email or Opreator	
	Email	Grant Roles @	Operator	Send Time	Status	Approval	Operate
	lı n.c	Standard	•	2023/11/21 11:14	Joined	(#1)	
	2 <u>,</u> q.c	Standard	•	2023/10/26 11:13	Expired	(#1)	
	xan	Standard	•	2023/09/14 16:48	Joined	-	

### Blacklist

Guance supports filtering out different types of qualified data by setting a blacklist. After configuring the blacklist, qualified data will no longer be reported to the Guance workspace, which helps you save data storage costs.

To create a new blacklist, go to **Management > Blacklist** in the Guance workspace, and select the data type to open the data blacklist filtering rules. Data types include log, basic object, custom object, network, application performance monitoring, user access monitoring, security inspection, events, metrics, and profile. You can manually input a preset blacklist or package data source and field name, and then configure the data source and field through DataKit and reporting data.

Create				Import
be All	✓ Q Search bli	acklist name		
Name	Туре	Filter condition	Last Update Time	Operate
default	Log	Status in [ok]	06/29 19:57	<u>/</u> t
default	Log	Source in [datakit]	06/29 19:57	<u>/</u> 1
default	Log	Si source in [datakit]	06/29 19:57 Total 2 items	Go to

## Pipelines

Text processing (Pipeline) is used for data parsing. By defining parsing rules, various data types, including logs, metrics, user access monitoring, application performance monitoring, basic objects, custom objects, networks, and security check, can be cut into structured data that meet our requirements.

To automatically generate a Pipeline with the same name according to the field value corresponding to the selected data type, go to **Management > Pipeline** in the Guance workspace and click **Create**.

					Import
Type All	✓ Q Search for Pipeline Names				
Pipeline Name		Status	Category	Last Update Time	Operate
nginx		Enabled	Log	06/29 19:55	
datakit		Enabled	Log	02/25 14:55	
					tota

# Data Forward

Guance supports forwarding logs, links, and user access data that meets certain criteria to Guance's object storage and external storage, including Alibaba Cloud OSS, AWS S3, Huawei Cloud OBS, Kafka message queues, etc.

In the Guance workspace Management > Data Forward > Forward rules, click Create Rule to select the data to be forwarded and the storage type.

Data Forward > Forward rules							
total 68 rules			Q Rule name	Create Rule			
Forward rules	Filter Condition	Data Type	Archive Type	Operate			
aws-test01	¶a -	Log	AWS S3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
OSS-test1	Source in [mysql]	Log	Alibaba Cloud OSS	💽 🗟 🖉 🗇			

## **Regular Expression**

Regular expression is one of the effective means to realize data security. In Guance, regular expression are supported to be applied to snapshot sharing, sensitive data desensitization and other scenarios.

In the Guance workspace **Management** > **Regular Expression** > **Custom**, click "New Regex" to customize the regular expression and save it as a rule base for subsequent use.

Regular Expression	Templates	Operate
\b((25[0-5])(2[0-4])1?[0-9])?[0-9])\.){3}(25[0	Network And Device Information	🚾 🗈 🗹 🗊
	Regular Expression	Regular Expression         Templates           \b((25[0-5])(2[0-4]]1?[0-9])(0-9])\)(3)(25[0)         Network And Device Information

In the **Templates**, Guance provides a variety of regular expression templates, which can be used by direct cloning.

Custom Templates	т	emplates All v. O. Search	
Name	Regular Expression	Templates	Operate
IPv4 Address Scanner	\b((25[0-5]](2[0-4]]1?[0-9])?[0-9])\.){3}(25[0	Network And Device Information	(+
IPv6 Address Scanner	(([0-9a-fA-F]{1,4}:){7,7}[0-9a-fA-F]{1,4}]([0	Network And Device Information	(+
Standard Mac Address Scanner	\b(?:[0-9A-Fa-f]{2}[:-]){5}(?:[0-9A-Fa-f]{2})\b	Network And Device Information	(+
HTTP Basic Authentification Header Scanner	\bAuthorization:\s+Basic\s+[A-Za-z0-9+/=]	Network And Device Information	(t)
HTTP Cookie Scanner	\bSet-Cookie:\s*(?:[^;,]+)(?:;\s*(?:[^,]+))*\b	Network And Device Information	(+
HTTP(S) URL Scanner	https?:\/\/(www\.)?[-a-zA-Z0-9@:%\+~#	Network And Device Information	(+
Standard Email Address Scanner	\b[\w!#\$%&`*+\/=?`{ }~^-]+(?:\.[\w!#\$%&`*	Personal Identifiable Information	( <del>+</del>

## Audition

In the Guance workspace **Management** > **Audition**, it supports viewing operation audit events generated by user in the workspace, and recording project usage, user behavior operations and resource changes in the workspace in real time.

a				Group	Please enter analysis dimensi	~
tal 4 results						ŝ
Time 🝦	Operator	IP	т	itle		
12/12 19:48:23.505	GCY	120	G	CY(chu	yun.com)进入了工作的	2
12/12 19:42:03.713	GCY	120	G	CY(chu	yun.com)进入了工作的	2
12/12 19:39:12.281	GCY	120		【观测云】	m`角色	
12/12 19:38:07.575	GCY	120	G	CY(chu	vun.com)进入了工作®	3

## Sharing

In the Guance workspace **Management** > **Sharing**, it supports unified management of charts and snapshots shared in the current space.

1. Sharing Chart

To share charts, edit the dashboard in **Scene**. After sharing, you can view the chart sharing list in the current space through **Management > Sharing Management - Sharing Chart**. You can view shared charts, embedded codes, and cancel sharing.

Chart sharing can be used to insert charts into platform code outside Guance for visual data presentation and analysis.

Share Chart Share Snapshot				
Chart Name	Source	Time Range	Sharer	Operate
Cpu usage	CPU Monitor View	Past 15 minutes	GCY	<u>11.</u> 🔯 «%

2. Sharing Snapshot

After saving a snapshot in the explorer such as **Scenes** and **Logs**, you can share it in **Snapshot**. After sharing, you can view the snapshot sharing list through

Management > Sharing Management > Sharing Snapshot. The list includes the snapshot name, sharing method, sharer, expiration date, time range, view snapshot, and view sharing link.

Shar	re Chart Share Snapshot					
	Snapshot Name	Sharing Method	Validity Period	Time Range	Sharer	Operate
	CPU Monitor	Public Sharing	2023-10-25 20:00:18	2023/10/23 19:45:12~2023/10/2 3 20:00:12	GCY	🖻 Ø 🔩

### Data Authorization

Guance supports the way of data authorization, authorizes the data of multiple workspaces to the current workspace, and queries and displays them through the scene dashboard and the chart components of notes. If you have multiple workspaces, configure data authorization to view data for all workspaces in one workspace.

In the workspace **Management > Data Authorization > Shared**, click **Add Authorization**, select site, workspace ID and role to authorize to view the current workspace.

3	hared Be Share	d	Q. Worksp	lace name or Id		<ul> <li>Add Authorization</li> </ul>
	Site	Workspace Name	Workspace ID		Role	Opera
	CN1(Hangzhou)		wksp_b8d9	145	Read-only	<u>_</u>
	CN1(Hangzhou)		wksp_5e90	88	Read-only	<u>/</u>
	CN1(Hangzhou)	GCY	wksp_f3205	je7	Read-only	<u>_</u>
	CN1(Hangzhou)	DataFlux	wksp_c00b	183	Read-only	<u></u>

In the workspace Management > Data Authorization > Be Shared, click Add

Authorization, you can view the list of workspaces that has been authorized.

Shared Be Shared		Q. Workspace r	ame or id
Site	Workspace Name	Workspace ID	
CN1(Hangzhou)	1	wksp_b8d§	a451033
CN1(Hangzhou)		wksp_8bb€	a6122fe

### **Data Masking**

Guance supports desensitization of sensitive fields. In the workspace Management > Data Masking , click Add Rule to add desensitization fields.

Rules	Field	Data Type	Regular Expression	Role	Operate
APM	APM	APM	\bey[I-L][\w=-]+\.ey[I-L][\w=	Standard	<b>(</b> ) 2 t
Log	Log	Log	\bSet-Cookie:\s^(?:[^;,]+)(?:;	Administrator	

### Data Scanner

Guance supports the functionality of sensitive data scanning, which allows for the creation of desensitization rules for data, enabling custom information masking to prevent information leakage and ensure information security. You can configure this in the workspace under **Management > Data Scanning**.

۲	New rule Templates		Q :	Search rule name
total 5 i	ules			Help document
	Rule Name (Sequential execution of scan ru	Filters	Туре	Operate
	Visa Card Scanner (4x4 digits)	∽ŕe -	Log	O 2 0
	Visa Card Scanner (2x8 digits)	∽ŕ≞ -	Log	O 2 0
	HTTP Basic Authentification Header Scanner	∽r -	Log	O 2 0
	HTTP Cookie Scanner	∽ŕ≡ -	Log	O 2 0
	HTTP(S) URL Scanner	∽ŕ≞ -	Log	O 2 0

#### Templates

Guance provides a official rule library for scanning sensitive data. In the Guance workspace, go to **Management > Data Scanning > Templates** to view and create rules. This includes scanning for overseas credit cards, network and device information, personal sensitive information, key and credential scanning, and more.

Sensitive Data Scanner > Create		
Templates	X Custom Templates	
✓ Templates	total 76	Select A
Credit Cards And Banking Network And Device Information Personal Identifiable Information	Visa Card Scanner (4x4 digits) sensitive_data:visa_credit_card sensitive_data_category:credit_card	
Secrets And Credentials	Visa Card Scanner (2x8 digits) sensitive_data:visa_credit_card sensitive_data_category.credit_card	
	Visa Card Scanner (1x16 & 1x19 digits) sensitive_data_visa_credit_card sensitive_data_category.credit_card	
	MasterCard Scanner (4x4 digits) sensitive_data:master_card_credit_card sensitive_data_category:credit_card	
	MasterCard Scanner (2x8 digits) sensitive_data:master_card_credit_card sensitive_data_category:credit_card	
	MasterCard Scanner (1x16 digits) sensitive_data:master_card_credit_card sensitive_data_category:credit_card	
	Discover Card Scanner (4x4 digits) sensitive_data:discover_credit_card sensitive_data_category:credit_card	
	Discover Card Scanner (2x8 digits) sensitive_data:discover_credit_card sensitive_data_category.credit_card	

### Billing

On the Billing page, you can view the current usage plan of the workspace and the usage of each item. Guance is divided into the Experience plan, Commercial plan, and Deployment plan. Experience plan users can upgrade to the commercial plan online, but cannot retreat after upgrading. After upgrading to the commercial plan, you can view the bill list, and the workspace owner can enter the expense center, change the bound account, recharge, and perform other operations.

g							
ommercial Plan							/
)verview 🐱						Set High Consumption Al	ert Billing Cen
Account	Name:	Cash Balanc	9	Voucher Balanc	e	Stored-value Carc	Balance
Isage Statistics	0					Curr	ent Yesterda
etwork Monitoring:	0	Timeseries:	0	Logs:	0	Backup Logs:	0 B
PM Traces:	0	APM Profiles:	0	RUM:	0	Synthetic Tests:	0
riggers:	0	SMS:	0	Session Replay:	0	Report:	0
illing Details	Jsage Analysis Data forv	vard analysis	✓ E	ixpand			
Accumulate Consur	nption: ¥ 84.2 ggers 2.62						
illing Details						2023-10	C
Illing Details	Products	Disbursement Mode	Usage	Initial Price	Sum Payable	2023-10 Cash Payment	Vouche
15.58         ¥ 6           lling Details         Date           2023-10-18         2023-10-18	Products Sensitive Data Sca nner	Disbursement Mode By day	Usage 0	Initial Price ¥ 0	Sum Payable ¥ 0	2023-10 e Cash Payment ¥ 0	Vouche ¥ 0
Illing Details Date 2023-10-18 2023-10-18	Products Sensitive Data Sca nner Data Forward-OBS	Disbursement Mode By day By day	Usage 0 0	Initial Price ¥ 0 ¥ 0	Sum Payable ¥ 0 ¥ 0	2023-10 Cash Payment ¥ 0 ¥ 0	Vouche ¥ 0 ¥ 0

### Pay as you go

Guance supports the billing method of purchasing on demand and paying according to quantity. Prices are calculated according to multiple dimensions, such as Sensitive Data Scanner, Regular Report, Timeseries, Logs, Data Forward, Network Monitoring, APM Traces / Profiles, RUM, Session replay, Synthetic Tests, Triggers, SMS, etc.

### **Billing Price**

The charging price of Guance is divided into two charging modes: one is the basic charging mode based on data statistics, and the other is the gradient charging mode based on data statistics and data storage policy.

#### **Basic Billing Mode**

Guance provides the basic charging mode based on data statistics, including Sensitive Data Scanner, Regular Report, Data Forward, Network Monitoring, Session replay, Synthetic Tests, Triggers, SMS.

#### Gradient Charging Mode

Guance provides the gradient charging mode based on data statistics and data storage strategy, including timeseries, log data, application performance Trace and application performance Profile, user access PV.