

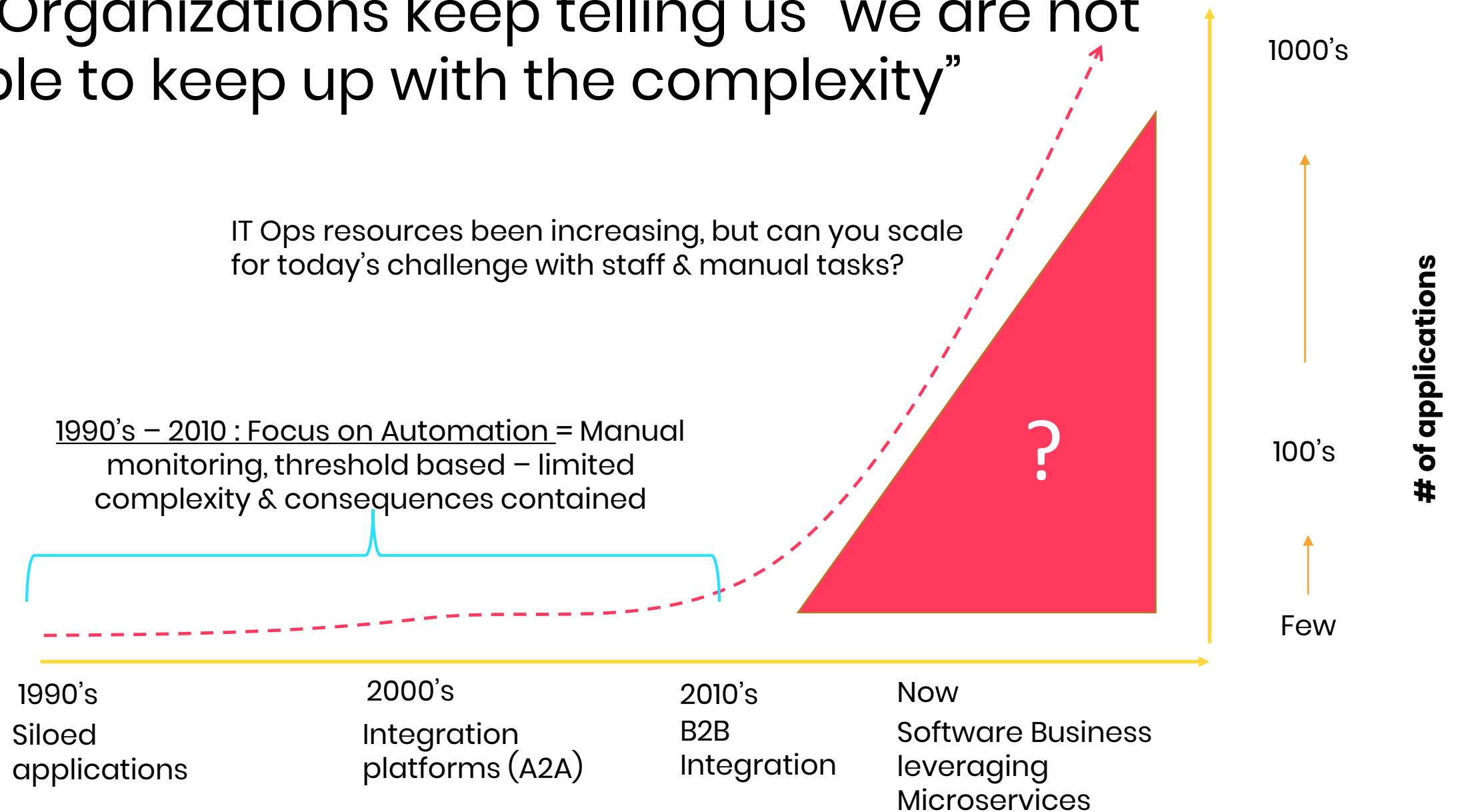


AI-powered IT monitoring and analytics

Introduction



IT Organizations keep telling us “we are not able to keep up with the complexity”





AIMS for Azure

Leveraging the common AIMS Platform capabilities :

- Massive metrics
- Normal behavior
- Correlation
- Anomaly detection (Azure or Hybrid)
- Analytics & reports
- & out-of-the box install.

To cover your *blind-spots* you need massive data

Examples:

o Azure

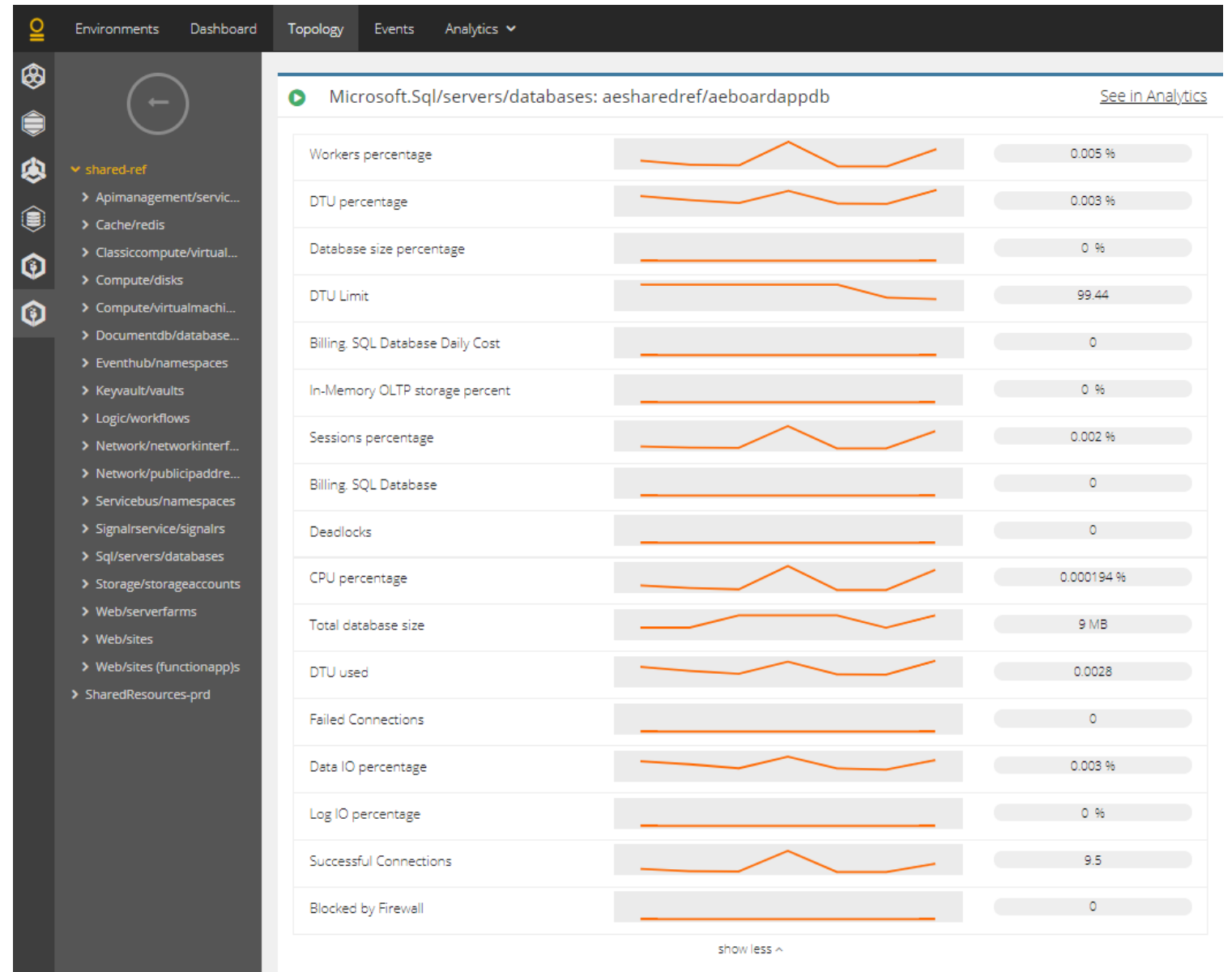
- o 18 resource types
- o 316 stat types
- o 6 statuses

o SQL:

- o 34 types
- o 125 stat types
- o 43 statuses

o BizTalk

- o 25 types
- o 19 stat types
- o 7 statuses



Extensive Microsoft Technology support & flexible to extend to additional systems

On-Prem

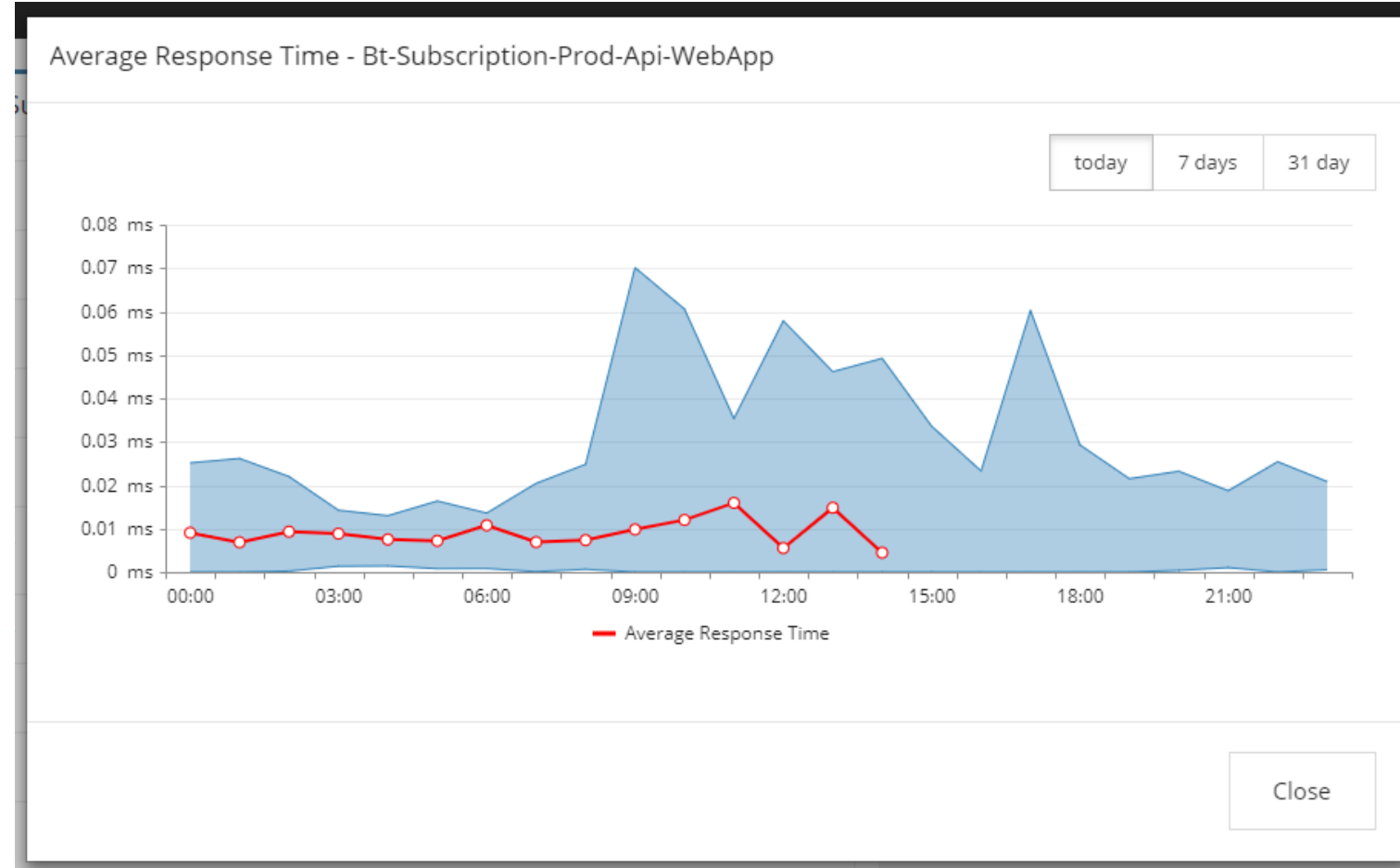
- BizTalk
- SQL
- Windows
- IIS
- File Count Monitoring
- HTTP Endpoint



- API Management
- Cache / Redis
- Virtual Machines
 - Classic Compute
 - Compute / VMs
 - Compute / Disks
- Network / Network Interfaces
- Network / Public IP Addresses
- Cosmos DB
- Event Hub
- Key Vault
- Logic Apps
- Service Bus
- Signal R Service
- Azure SQL DB
- Azure Storage
- App Service Plans
- Azure Web Apps
- Azure Functions
- and more....
- **+ Azure billing data**

Eliminating manual thresholds and *alert fatigue*

1. Metrics for each resource are stored to build a rich history of behavior for each metric and resource
2. Metrics data are used to build cyclical normal behavior patterns with dynamic upper & lower thresholds
3. Data is used to automatically identify deviations from patterns



Overview

view

restore

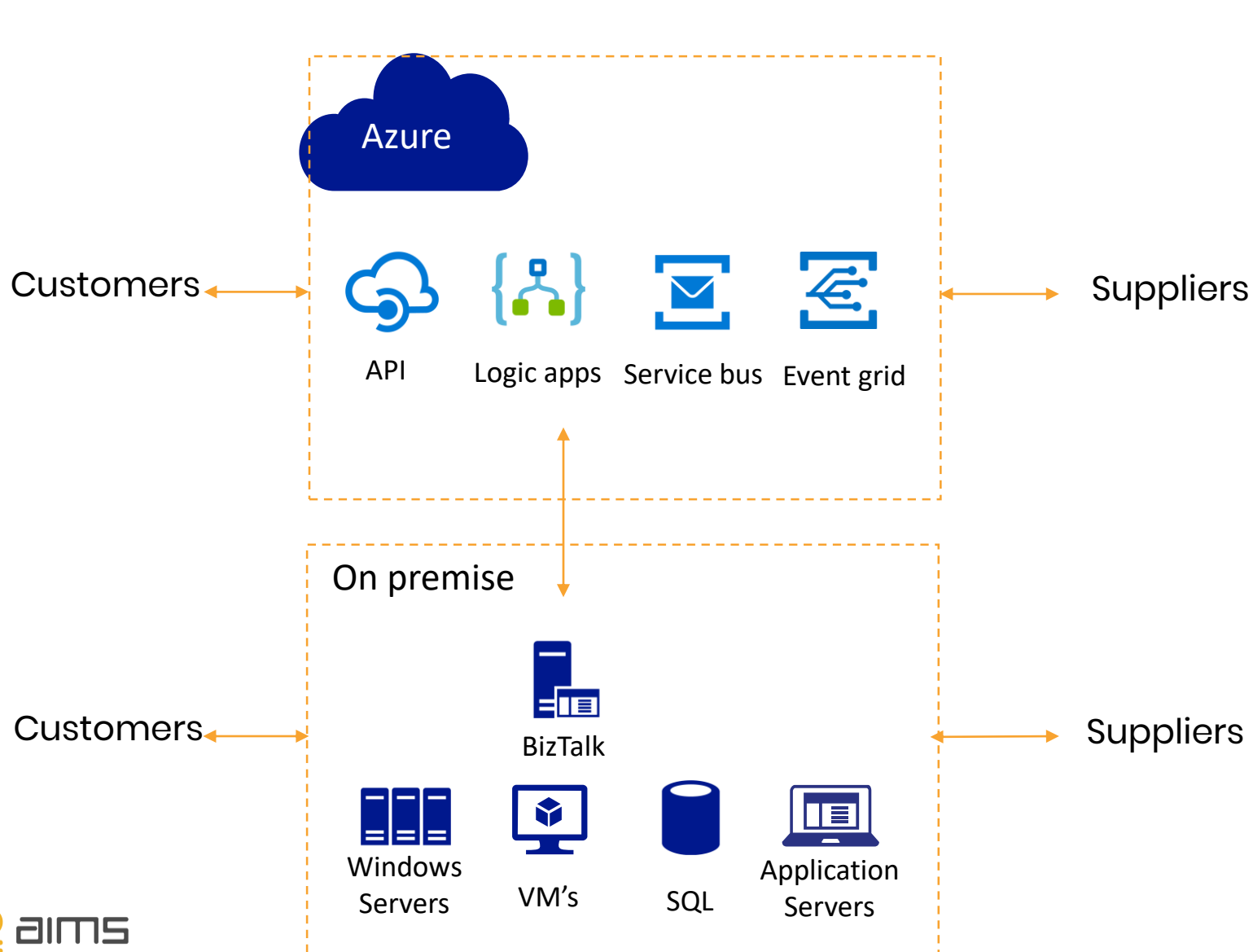
save

Eliminate “siloes tools” problem and get cross-system anomalies

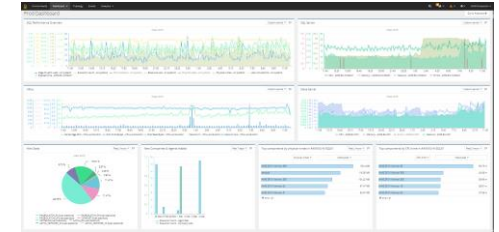
- Drag’n drop systems into groups to enable correlation of anomalies across systems



B2B – on prem, Azure (transition or hybrid)

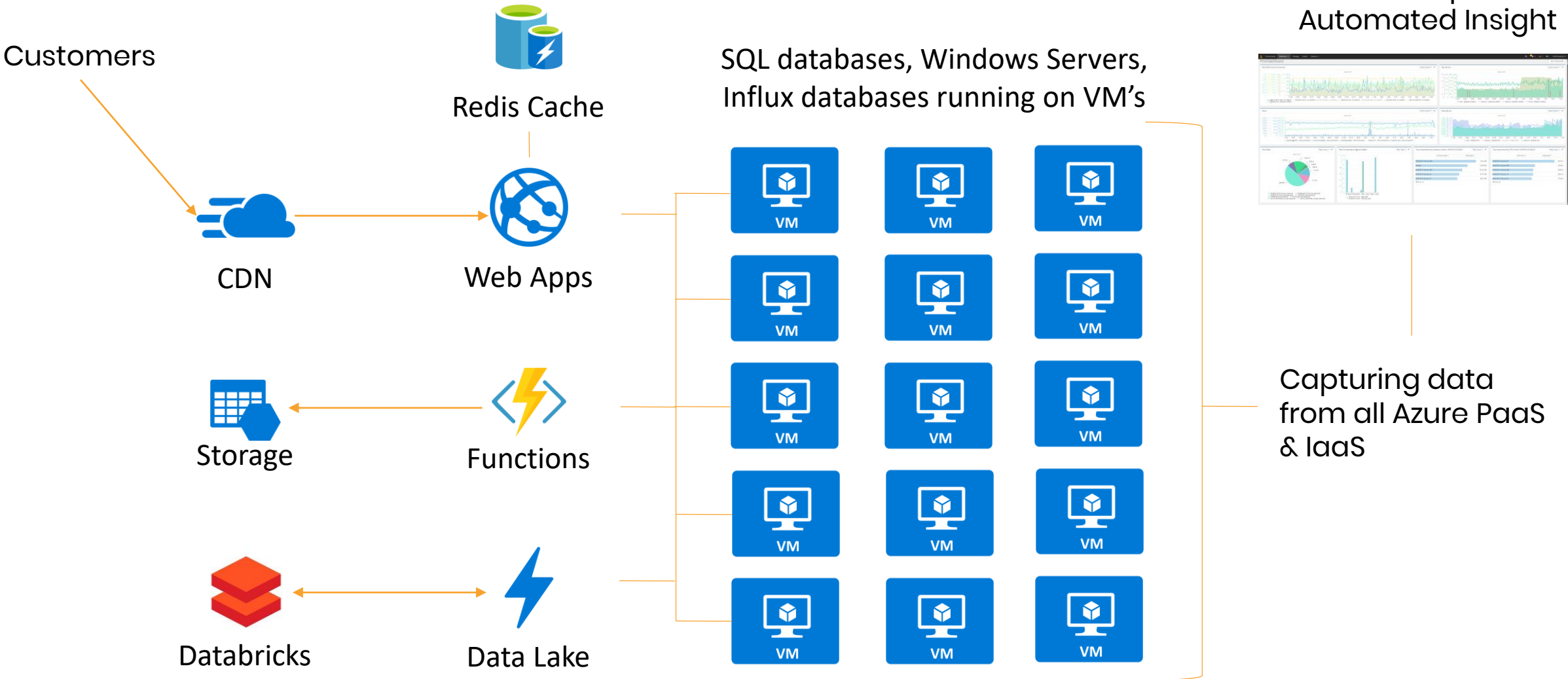


IT Ops
Automated Insight



- Business process insight from underlying technologies
- Capturing data from all Azure PaaS & IaaS, On-premise tech including customer / partner end-points.

AIMS Production (all Azure)



Anomaly detected

Move from re-active firefighting to pro-active prevention

- Leverage Anomaly warnings to identify & resolve situations before customers notice

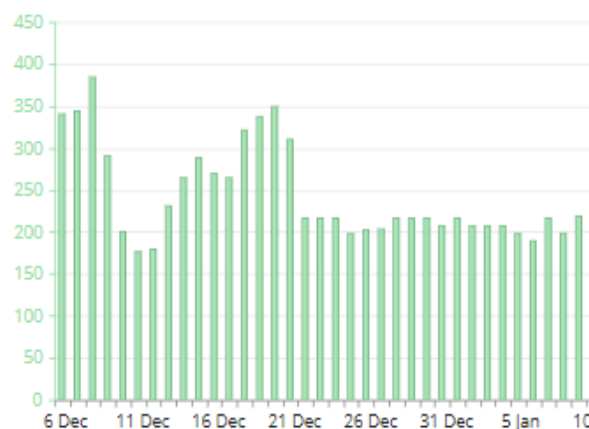
Table detailsTimeline barsSee in Analytics

<input type="checkbox"/> ↓ Parameter	Affected group / node	Deviation from normal behavior	Started ↓	Ended	Duration
<input type="checkbox"/> Data Out	aims-azure-agent-beta	<div><div></div>561.0% ↑</div> <div>Expected range: 0 - 131.05</div>	12 days	12 days	2 hours
<input type="checkbox"/> Function Execution Count	aims-azure-agent-beta	<div><div></div>400 % ↑</div>			2 hours
<input type="checkbox"/> IO Other Bytes Per Second	aims-azure-agent-beta	<div><div></div>800 % ↑</div>	12 days ago	12 days ago	2 hours
<input type="checkbox"/> Data In	aims-azure-agent-beta	<div><div></div>546 % ↑</div>	12 days ago	12 days ago	2 hours
<input type="checkbox"/> IO Write Bytes Per Second	aims-azure-agent-beta	<div><div></div>260 % ↑</div>	12 days ago	12 days ago	2 hours
<input type="checkbox"/> Average memory working set	aims-azure-agent-connect-beta	<div><div></div>infinite ↑</div>	12 days ago	12 days ago	2 hours
<input type="checkbox"/> Ingress	aimsazureagentbeta	<div><div></div>374 % ↑</div>	12 days ago	12 days ago	2 hours
<input type="checkbox"/> Gen 2 Garbage Collections	aims-azure-agent-beta	<div><div></div>220 % ↑</div>	12 days ago	12 days ago	2 hours
<input type="checkbox"/> Memory working set	aims-azure-agent-connect-beta	<div><div></div>infinite ↑</div>	12 days ago	12 days ago	2 hours
<input type="checkbox"/> IO Read Bytes Per Second	aims-azure-agent-beta	<div><div></div>567 % ↑</div>	12 days ago	12 days ago	33 minutes
<input type="checkbox"/> Function Execution Units	aims-azure-agent-beta	<div><div></div>849 % ↑</div>	12 days ago	12 days ago	2 hours

Azure Billing Report

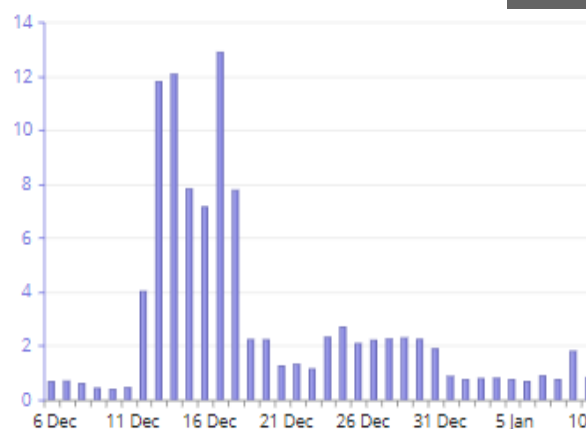
+ block restore save tpl delete

Billing Units - VMs test



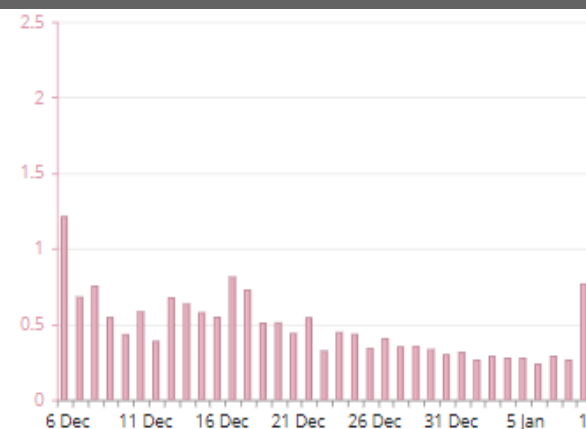
Billing, Virtual Machines - All systems

Billing Units - Data Transfer In



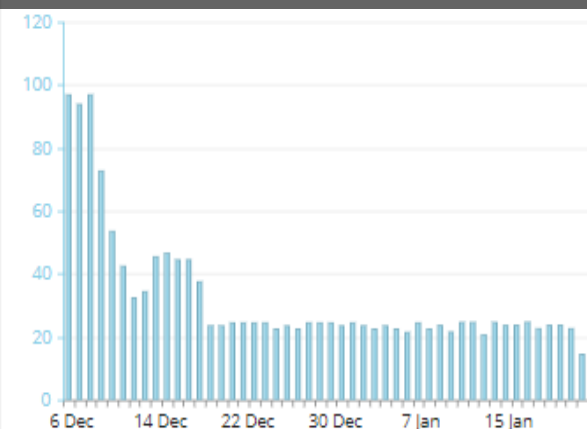
Billing, Bandwidth, Data Transfer In - All system

Billing Units - Bandwidth Out



Billing, Bandwidth, Data Transfer Out - All system

Billing Units - Azure App Services



Billing, Azure App Service - All systems

Activity & changes

Past 31 days

44 new nodes

08.01.2019 12:45	aimsazureagentbeta
08.01.2019 12:45	NorthEuropePlan
08.01.2019 12:45	aims-azure-agent-beta
08.01.2019 12:45	aims-azure-agent-connect-beta
15.01.2019 17:45	aimstestagent
15.01.2019 17:45	NorthEuropePlan
15.01.2019 17:45	aims-test-agent

Top components by Disk Write Operations/Sec in aims-beta

Past 31 days

Disk Write Operations/Sec	node types
AIMS-B-Master	13.81
aims-beta-influx	6.54
AIMS-B01	5.22
aims-b-agents	3.41

Top components by Network Out in aims-beta

Past 31 days

Network Out	node types
AIMS-B-Master	379.25 GB
AIMS-B01	16.73 GB
aims-beta-influx	5.9 GB
aims-b-agents	3.15 GB

+ block

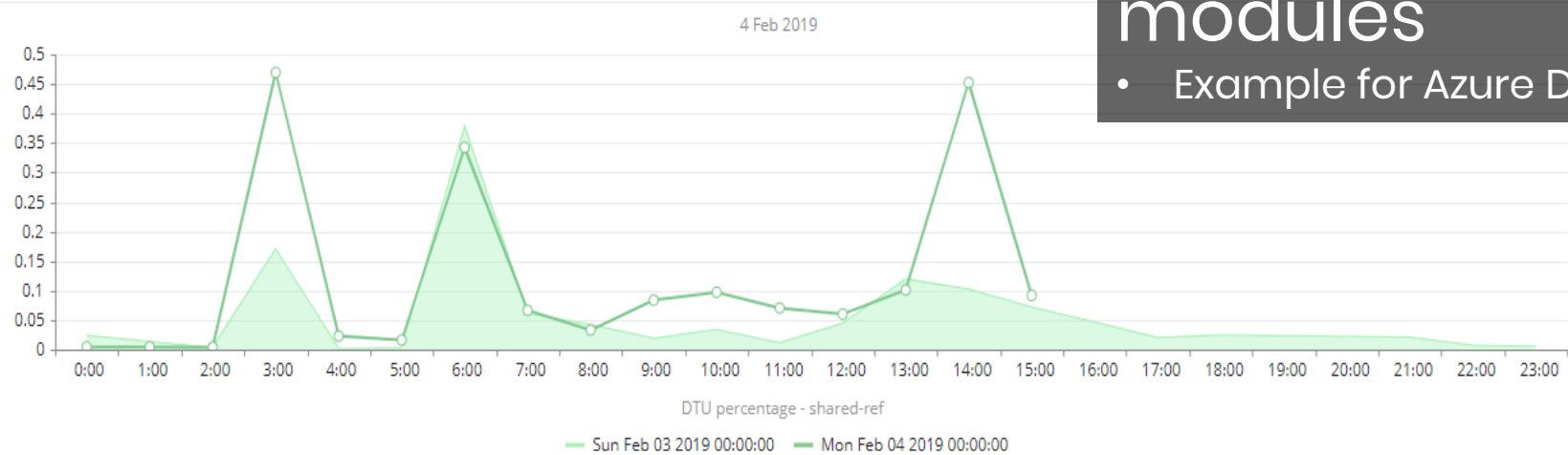
↺ restore

💾 save

📄 tpl

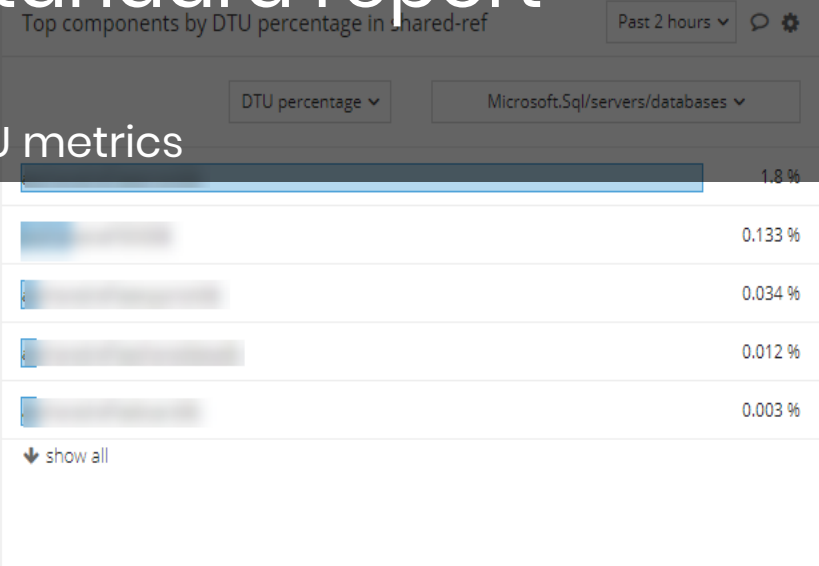
🗑 delete

DTU current vs previous period



Easily build custom reports for any needs using standard report modules

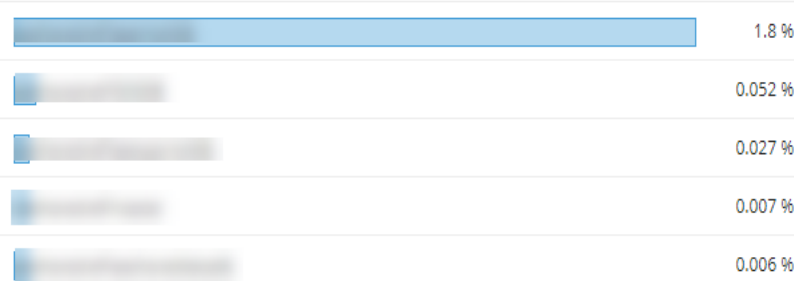
- Example for Azure DTU metrics



Top components by CPU percentage in shared-ref

Past 2 hours ⚙️

CPU percentage ▼ Microsoft.Sql/servers/databases ▼

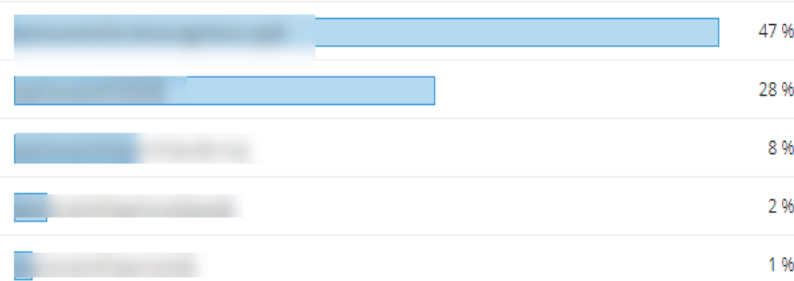


↓ show all

Top components by Database size percentage in shared-ref

Past 2 hours ⚙️

Database size percentage ▼ Microsoft.Sql/servers/databases ▼

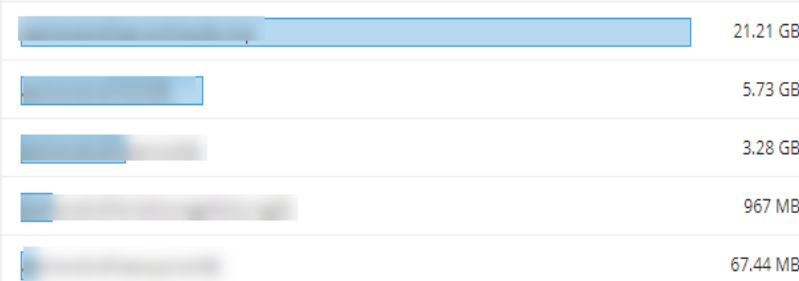


↓ show all

Top components by Total database size in shared-ref

Past 2 hours ⚙️

Total database size ▼ Microsoft.Sql/servers/databases ▼

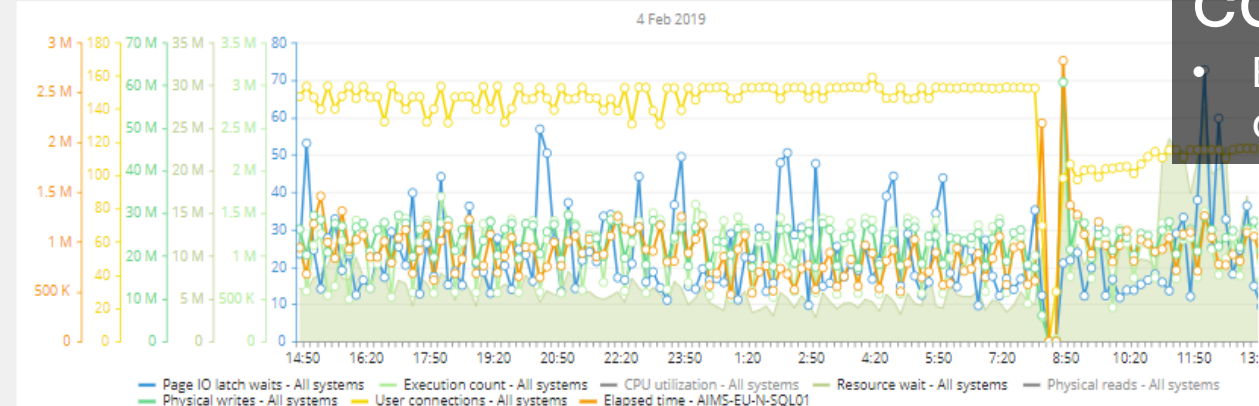


↓ show all

Prod VM Dashboard

+ block restore save tpl delete

SQL Performance Overview



Top components by physical writes in AIMS-EU-N-SQL01

Past 2 hours

physical writes node types

AIMS.DF.01.Monitor.53	190.15 MB
AIMS.DF.01.Monitor.35	139.27 MB
AIMS.DF.01.Monitor.31	115.29 MB
AIMS.DF.01.Monitor.330	114.31 MB
AIMS.DF.01.Monitor.52	113.39 MB

show all

Top components by CPU time in AIMS-EU-N-SQL01

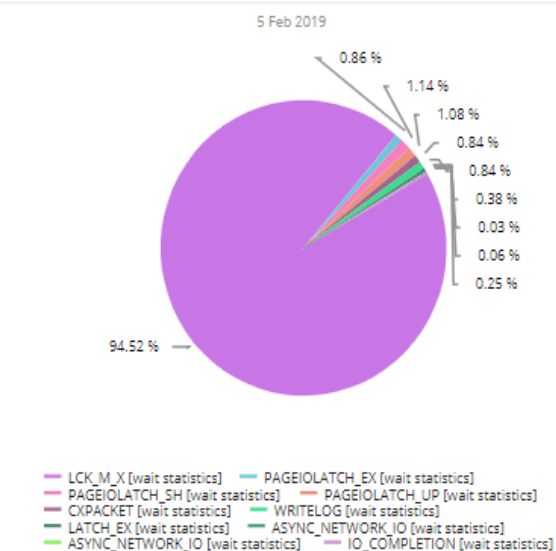
Past 2 hours

CPU time node types

AIMS.DF.01.Monitor.18	57.44 m
AIMS.DF.01.Monitor.35	57.34 m
AIMS.DF.01.Monitor.53	49 m
AIMS.DF.01.Monitor.22	47.55 m
AIMS.DF.01.Monitor.23	39.88 m

show all

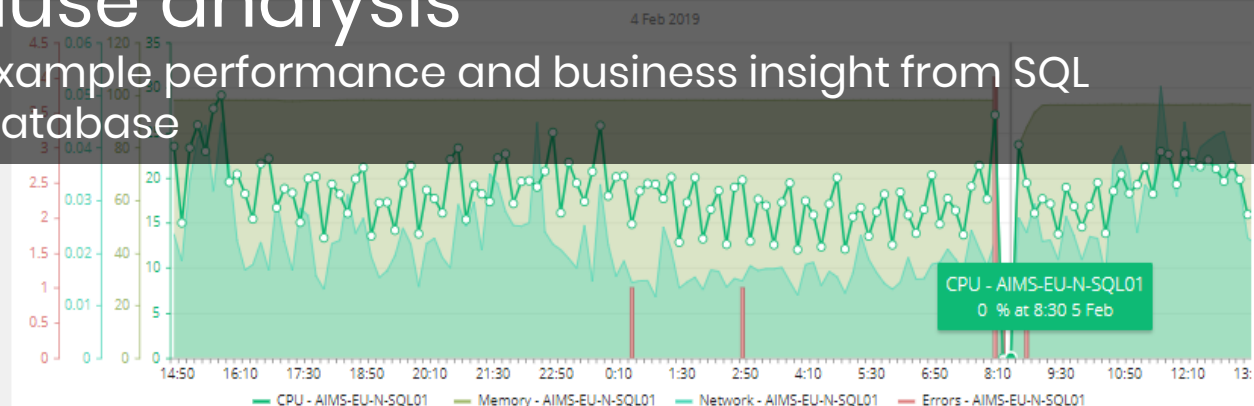
Wait Stats



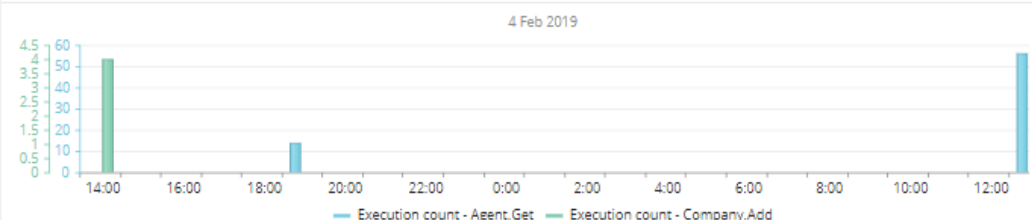
Leverage any data from any resource for performance or root-cause analysis

- Example performance and business insight from SQL database

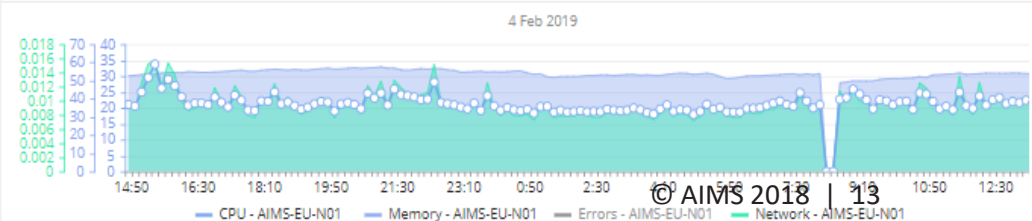
SQL Server



New Companies & Agents Added



Slave Server



Azure VM - Billing Bandwidth In & Percentage CPU

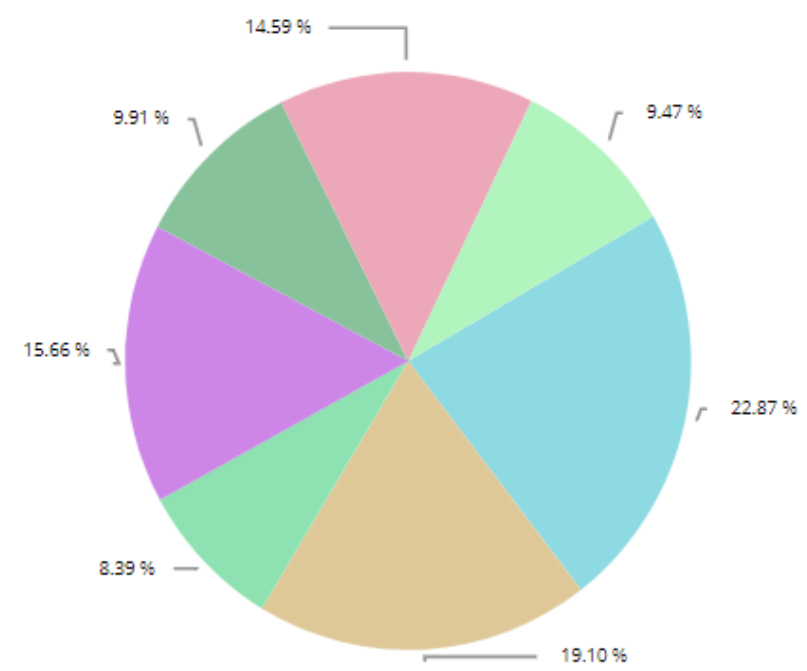
+ block restore save tpl delete

Understand resources driving Azure costs

PDF refresh copy subscribe add dashboard private

- Example for Azure VM's

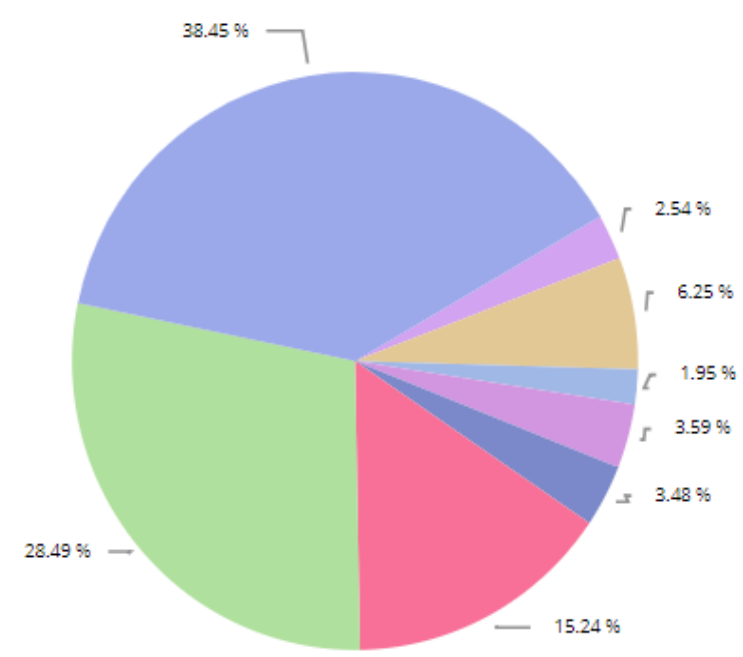
VM Billing Bandwidth, Data Transfer In



AIMS-B01 [Microsoft.Compute/virtualMachines] aims-b-agents [Microsoft.Compute/virtualMachines]
aims-beta-influx [Microsoft.Compute/virtualMachines] AIMS-B-Master [Microsoft.Compute/virtualMachines]
aims-alpha-influx [Microsoft.Compute/virtualMachines] aimsiiistest [Microsoft.Compute/virtualMachines]
BizTalkCLRNew [Microsoft.Compute/virtualMachines]

Billing, Bandwidth, Data Transfer In

VM Percentage CPU



aims-alpha-influx [Microsoft.Compute/virtualMachines] AIMS-B01 [Microsoft.Compute/virtualMachines]
aims-b-agents [Microsoft.Compute/virtualMachines] aims-beta-influx [Microsoft.Compute/virtualMachines]
aimsiiistest [Microsoft.Compute/virtualMachines] AIMSTestSQL [Microsoft.ClassicCompute/virtualMachines]
aimsmlimage [Microsoft.Compute/virtualMachines] AIMSTestSrv2 [Microsoft.ClassicCompute/virtualMachines]

Percentage CPU

Automation of monitoring & Insight with deep technical support included

Cloud delivered and future proof

A scalable cloud based platform supporting on-premise technologies, Azure, SDK)

Software with a professional support

Tap into deep expertise when you need

Early notification of problems

Leverage machine learning to identify problems not possible with other tools

Eliminate manual work

Stop wasting time on monitoring set-up, triaging cry-wolf alerts and time consuming reporting

Create reports for stakeholders

Default and custom reports available to automate insight for your stakeholder


Control Azure costs

Get insight into what is driving your Azure consumption

Install is done in a few minutes

- no need for lengthy implementations or instrumentation of code:

1. Signup for an AIMS account
portal.aimsinnovation.com/signup
2. Create an environment (a logical group for your systems / agents)
3. Read the relevant [install guides / pre-requisites](#)
4. Install / connect the relevant systems / agents
5. Watch AIMS auto-detect systems, collect metrics, build normal behavior patterns, identify anomalies and build some reports for your stakeholders!
6. ... And keep in mind AIMS Performance Experts are at your fingertips!



SIGN UP HERE TO GET ACCESS TO AIMS

PLEASE FILL IN ALL FIELDS

Email *	First name *
<input type="text"/>	<input type="text"/>
Password *	Last name *
<input type="text"/>	<input type="text"/>
Confirm password *	Company name *
<input type="text"/>	<input type="text"/>
Address *	
<input type="text" value="https://login.aimsinnovation.com/"/>	
How much is? *	
<input type="text" value="51 + 4 = ?"/>	
<input type="text"/>	
<input type="button" value="Submit"/>	

Connect Agent

Agent:	<input type="text" value="Azure agent"/>
System name:	<input type="text" value="My Azure Agent"/>
Domain:	<input type="text" value="yourcompany.onmicrosoft.com"/>
Client Id:	<input type="text" value="00000000-0000-0000-0000-000000000000"/>
Client Secret:	<input type="text" value="0123456789ABCDEFGHJKLMNOPQRSTUVWXYZab"/>
Subscription ID:	<input type="text" value="00000000-0000-0000-0000-000000000000"/>

Adding Azure to AIMS is a configuration job

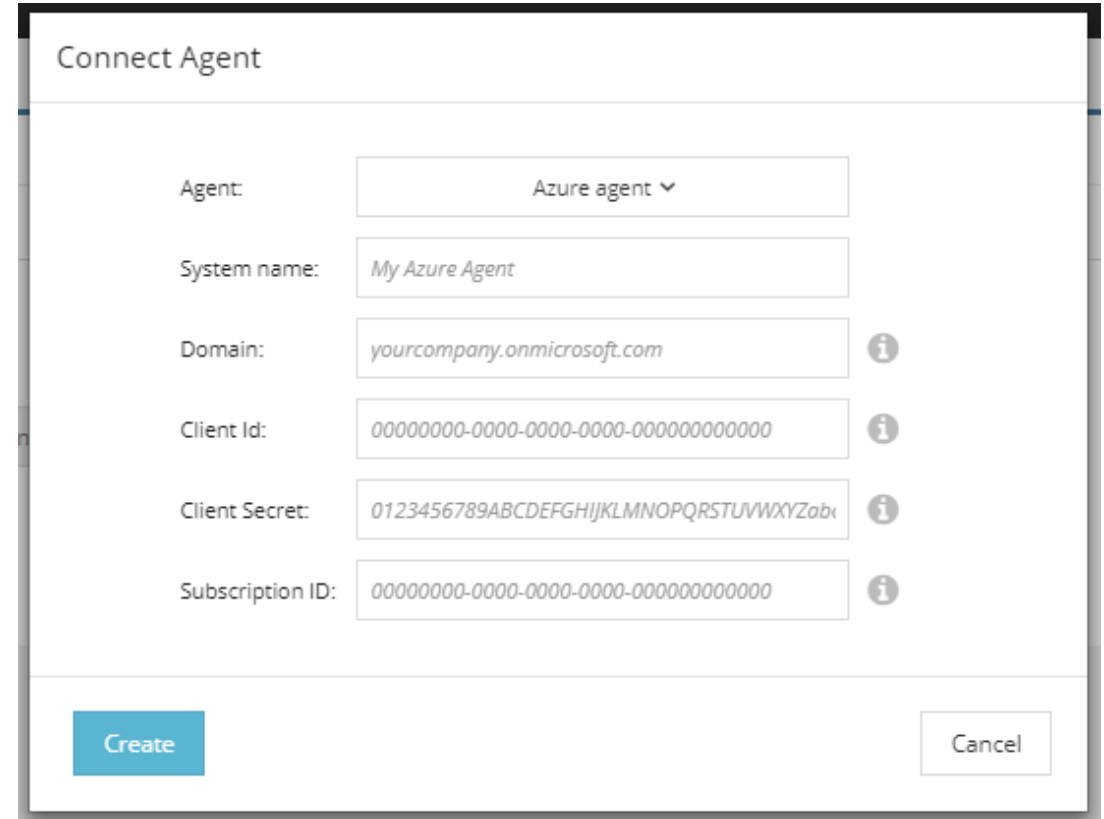
Adding Azure to your AIMS solution is done in a few minutes by following simple steps:

1. Set up the necessary privileges for AIMS in the Azure portal
2. Go to the config section of AIMS and select “Connect Agent”
3. Chose the “Azure agent” from the drop-down and fill in the remaining fields
4. Click “Create” and you are done!

For more details and useful tips check out :

- [Install guide AIMS Azure](#)

We recommend that you consider the logical grouping of resources in your Azure subscription as this will impact anomalies. AIMS considers resources in a resource group as a logical entity for Anomaly purposes.



The screenshot shows a 'Connect Agent' configuration window. It contains the following fields and values:

Field	Value	Info Icon
Agent:	Azure agent ▼	
System name:	My Azure Agent	
Domain:	yourcompany.onmicrosoft.com	Yes
Client Id:	00000000-0000-0000-0000-000000000000	Yes
Client Secret:	0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ	Yes
Subscription ID:	00000000-0000-0000-0000-000000000000	Yes

At the bottom, there are two buttons: 'Create' (blue) and 'Cancel' (white).



www.aims.ai

