

BindPlane for Microsoft Azure Monitor

What we do

Monitoring Data Acquisition

We connect monitoring and analytic engines to customer IT stacks



Agentless

Always on, always updated, API-based



Dimensional data

Exploit deeper visibility and relational “dimensionality”



Make Monitoring better

Our integrations enhance monitoring engines, not replace them



Pure data

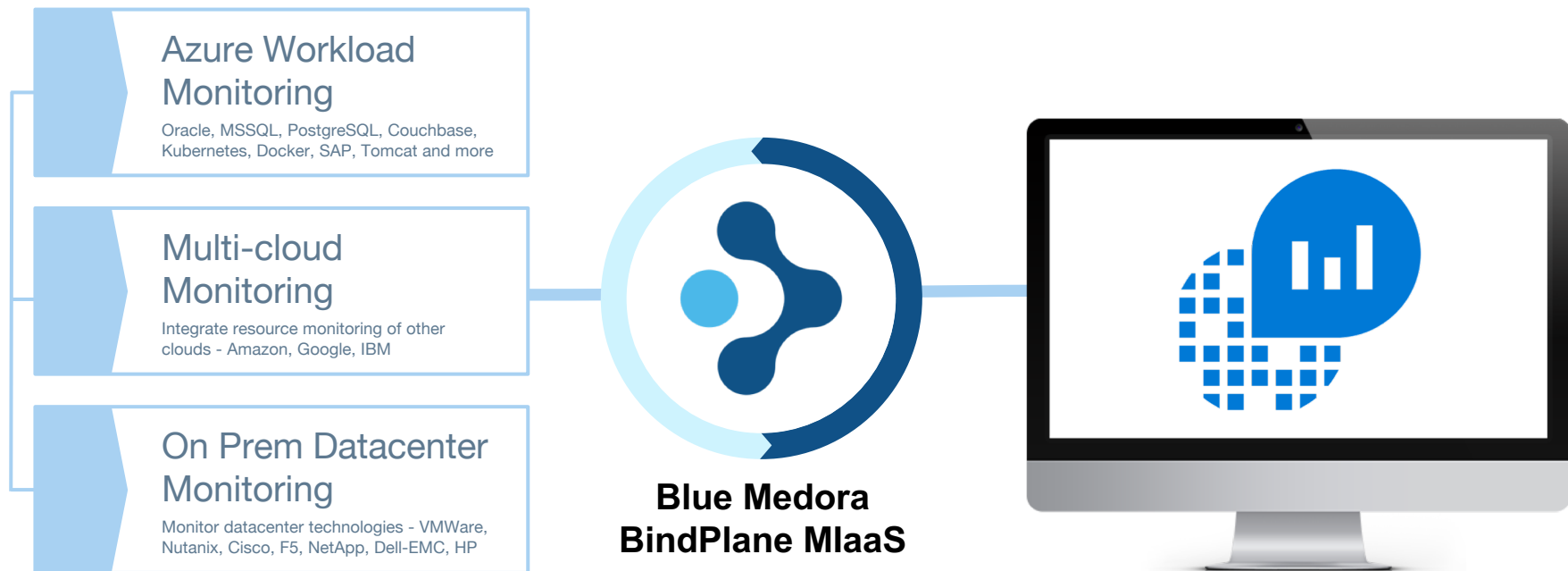
We only deliver high quality data to enable advanced analytics



Seamless

Monitor more things for more customers with no impact to experience

Widening Azure Monitor / Log Analytics with a single integration...



**~200+ enterprise
technologies in 2018**

Our Value



Rapid Root Cause Analysis

Empower customers to move past symptoms to quickly find the root cause.



Simplify Tools

Full visibility in Azure Monitor allows clear concise remediation of issues.



Proactive Problem Resolution

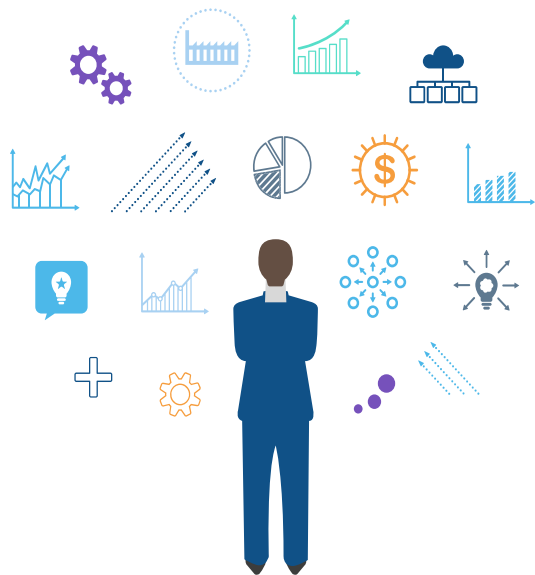
Shift from reactive to proactive approach to management and monitoring.





Expand Monitoring to Azure Workloads

Leverage the strength of the Microsoft Azure Monitor, Application and Workload Insights with the breadth of data providers from Blue Medora BindPlane

The best tool is the one you already love



 You've got the data.

 You've got the technology

Full stack visibility

01

Install the agentless collector



02

Select the key technologies running in your stack

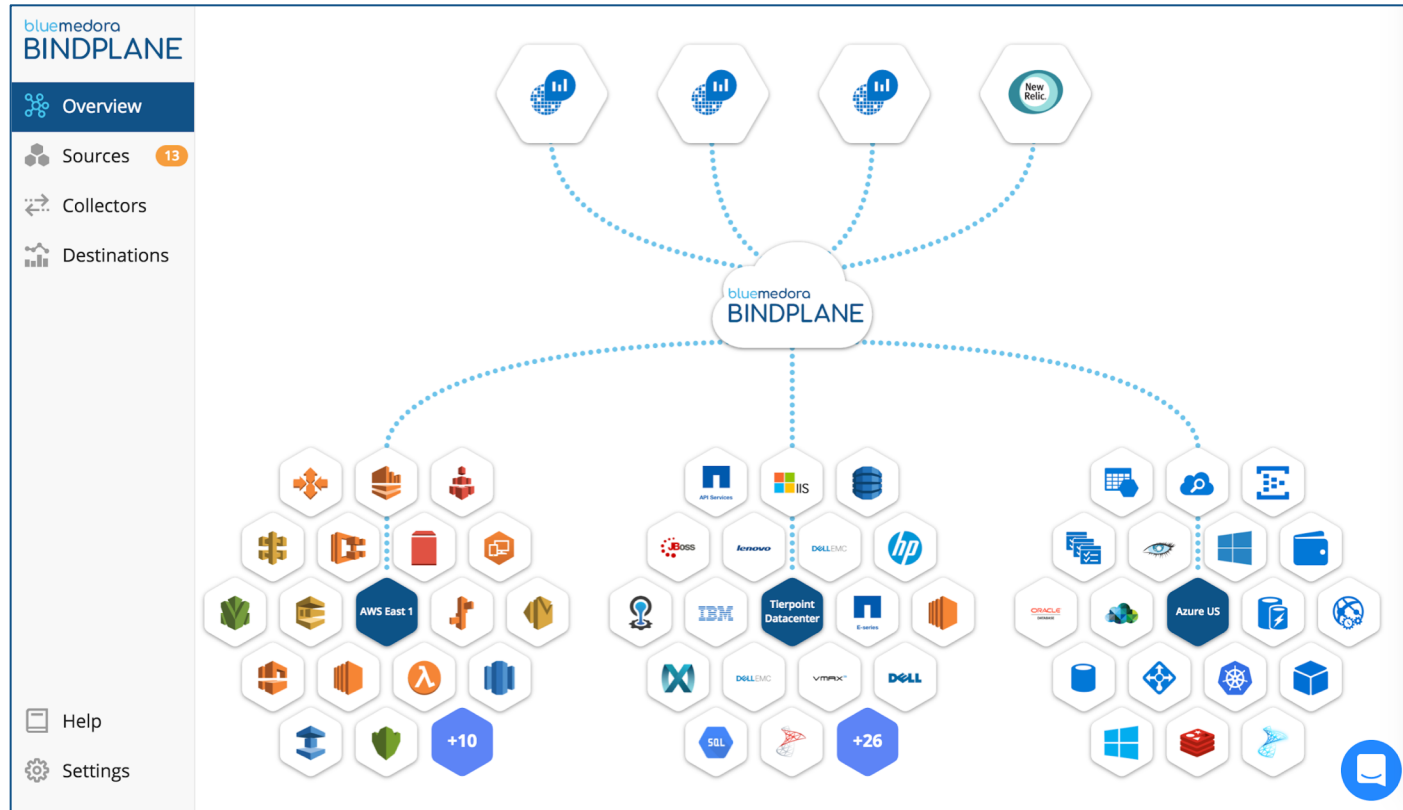


03

Connect Azure Monitor



BindPlane: Monitoring Integration as a Service



PostgreSQL

Microsoft Operations Management Suite

🔔 🌐 ⚙️ 😊 ❓ Data Plan: OMS bluemedoradev

Overview PostgreSQL Environment



Edit



Clone

5/2/18 11:43 - 5/3/18 11:43

POSTGRESQL OVERVIEW



PostgreSQL

[More info](#)

Overview

PostgreSQL is an open source relational database management system.

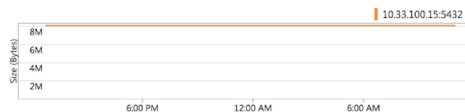
Key Performance Indicators

In PostgreSQL, it's important to monitor table operations, as errant row inserts can quickly inflate the size of the database.

Furthermore, it's also important to monitor the executions of a query. If a resource intensive query executes at a rapid pace, this may hinder the responsiveness of the database.

POSTGRESQL SIZE

Instance



Database Size

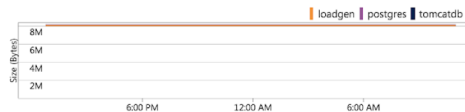
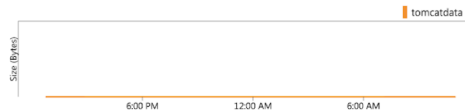


Table Size



DATABASE OPERATIONS

0
Row Inserts

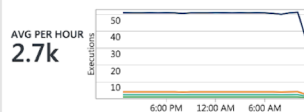
0
Row Deletes

DATABASE	TOTAL OPERATIONS
loadgen	7.2K
postgres	4.4K
tomcatdb	2.3K

[See all...](#)

QUERY EXECUTIONS

Total Executions



QUERY	AVG TIME (MS)
SELECT typinput=\$2:regpr...	0.1
select exists(SELECT \$1 FR...	0
SELECT n.nspname = ANY(...	0
SET extra_float_digits = 3	0
SET application_name = 'BL...	0
SHOW server_version_num	0

[See all...](#)

ADDITIONAL INFO

Session Wait Time
[postgres_session_CL | summarize max\(waiting_d\) by postgres...](#)

Session by Application
[postgres_session_CL | summarize count\(\) by application_name...](#)

Index Rates
[postgres_index_CL | project postgres_index_name_s, postgre...](#)

Instance Configuration
[postgres_configuration_CL | distinct postgres_instance_nam...](#)

Replication Delay
[postgres_replication_CL | summarize avg\(replication_delay_d\) ...](#)

Tablespace Size
[postgres_tablespace_CL | summarize avg\(spc_size_d\) by postg...](#)

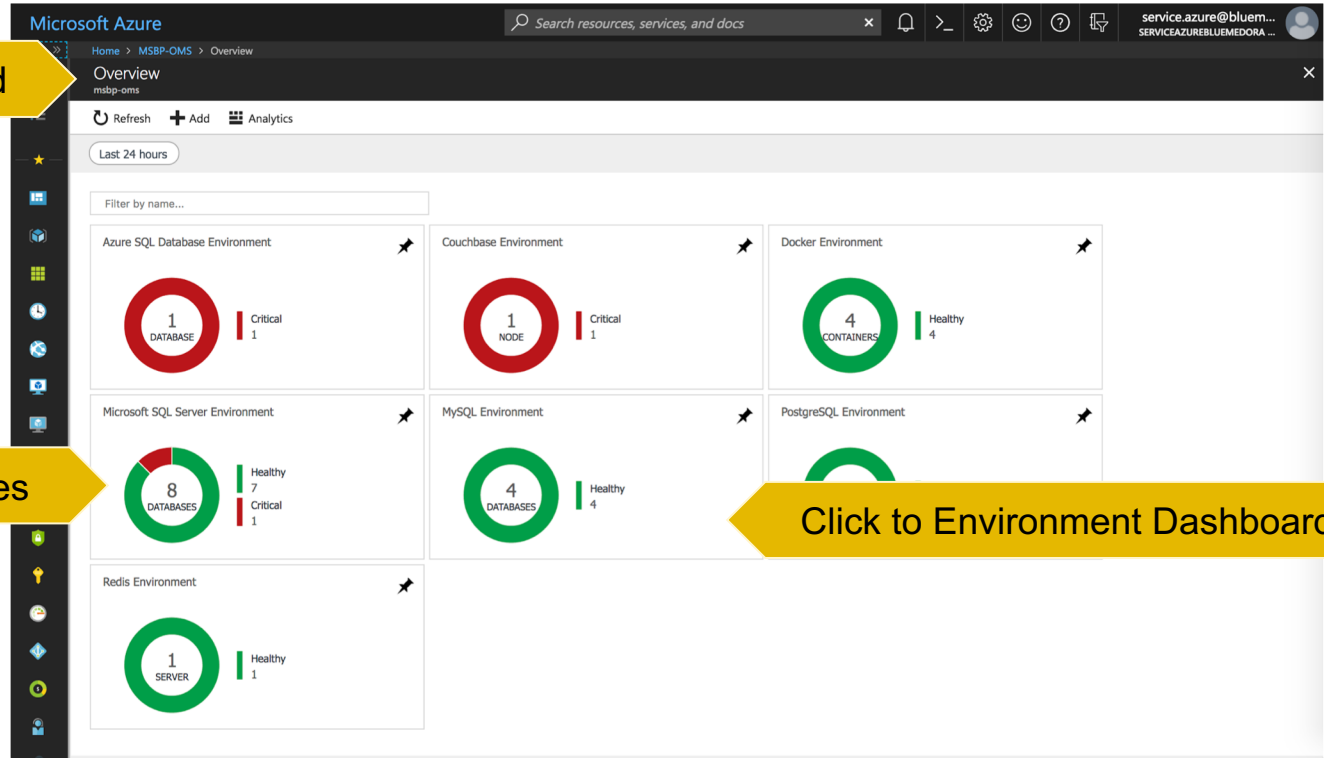
Function Calls
[postgres_function_CL | summarize avg\(avg_time_d\), sum\(calls...](#)

Azure Workload Monitoring with BindPlane

Dashboards Included

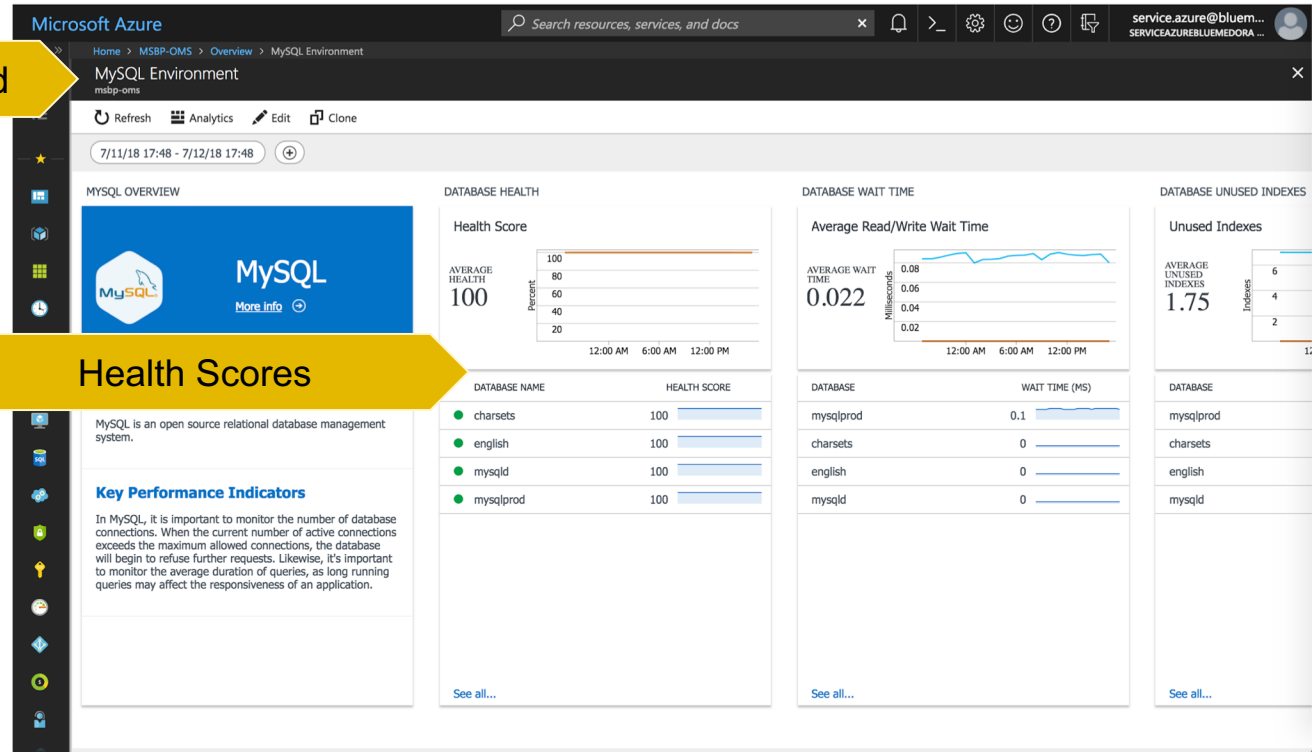
Health Scores

Click to Environment Dashboard



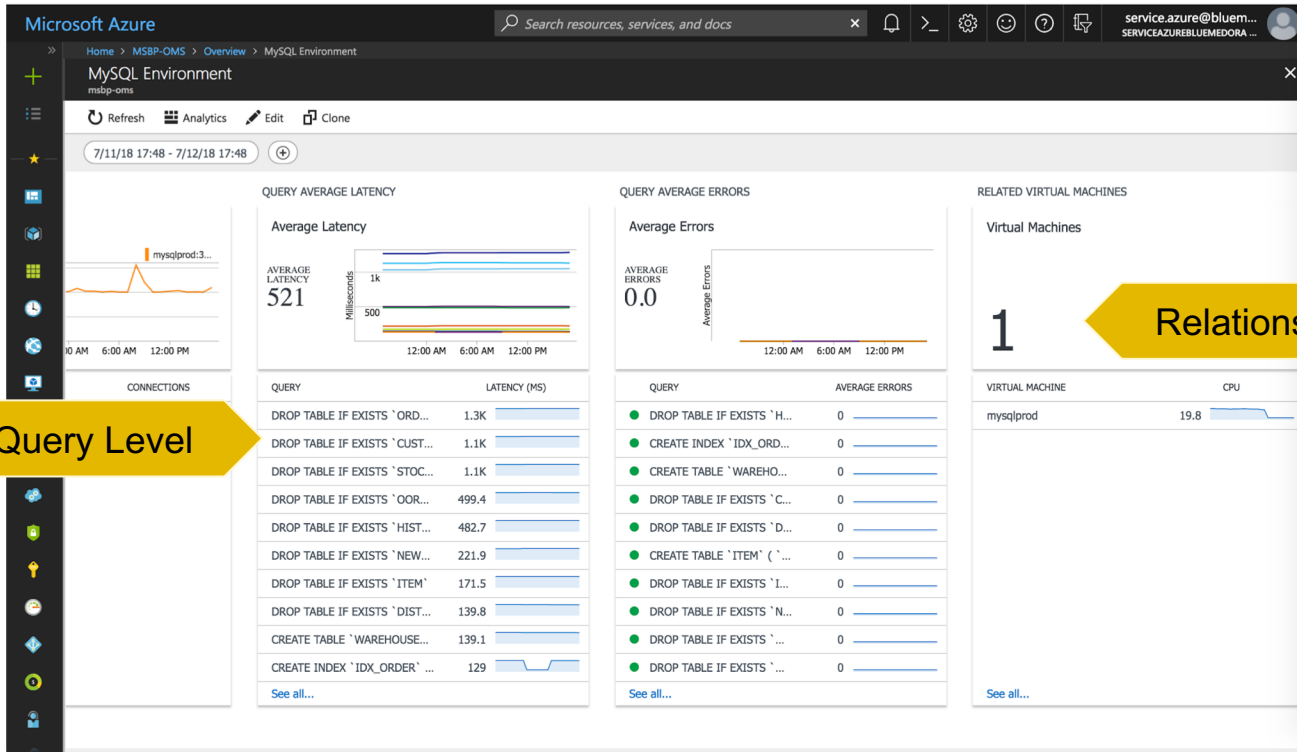
Azure Workload Monitoring with BindPlane

Dashboards Included



Health Scores

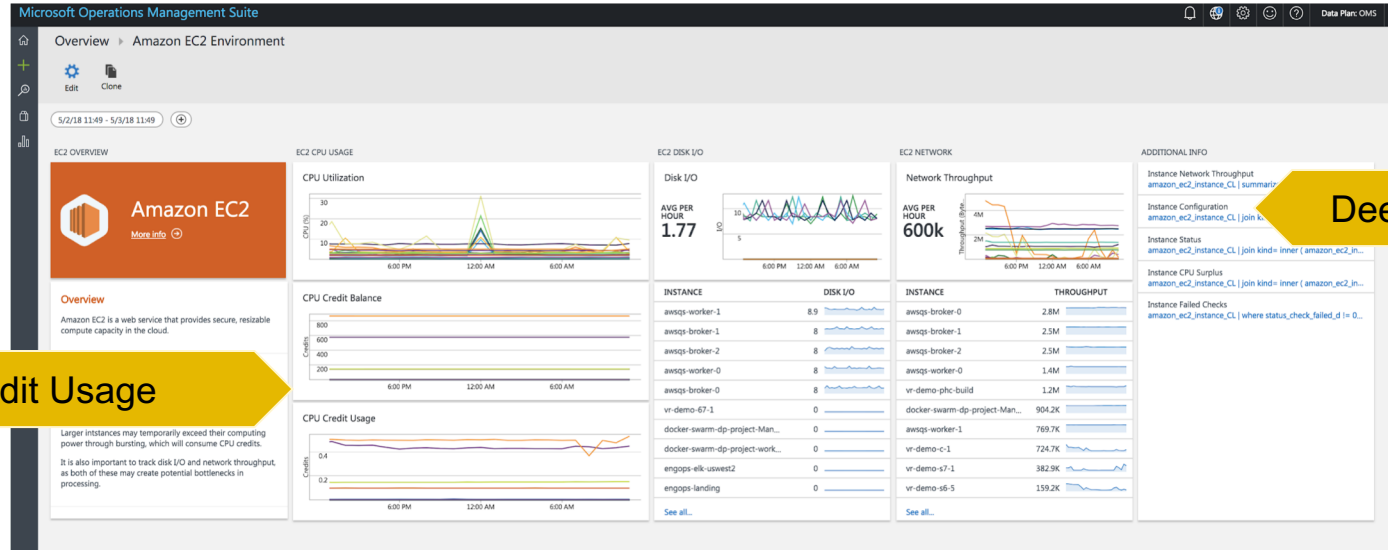
Azure Workload Monitoring with BindPlane



Depth to Query Level

1 Relationship to Azure VM

Multi-Cloud Monitoring with BindPlane

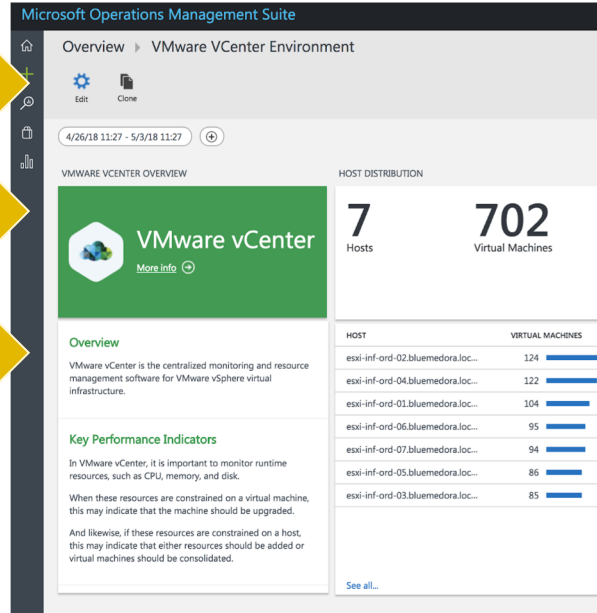
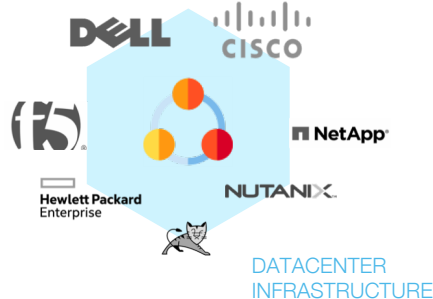


On Premise Datacenter Monitoring with BindPlane

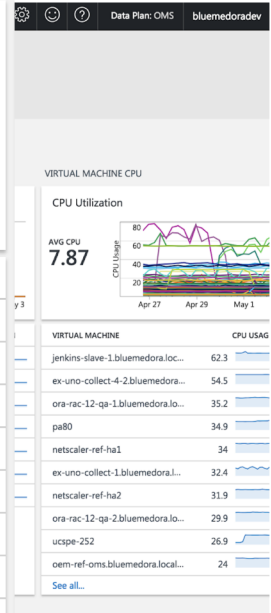
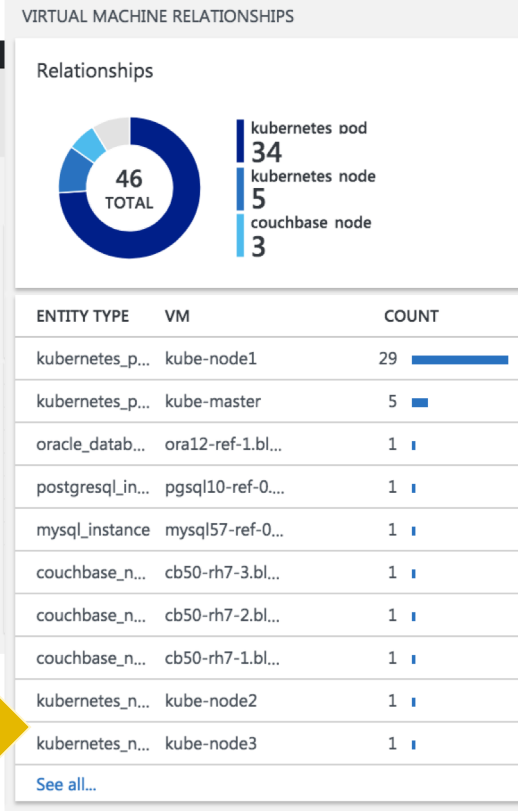
Migrate from SCOM

Support Hybrid Cloud

Cloud vs. On Prem
Compare



Relationship Mapping



Blue Medora history

1st

Category Defining

The first
Monitoring
Integration as a
Service (MaaS)
provider

150+

Breadth

Large and
growing catalog
of endpoint
integrations

350+

Proven

Enterprise
customers like
BOSCH,
Safeway, JP
Morgan Chase



Next Steps



Schedule a Demo

BindPlane is in free preview until the end of August.
To schedule a demo and activate a free preview account, contact:

Daniel Jefferies, Director of Platform Products
daniel.jefferies@bluemedora.com



Learn More

BindPlane Pitch at Microsoft - <https://youtu.be/bo1s9r0-MYw?t=42s>

BindPlane for Microsoft product page -
<https://bluemedora.com/products/bindplane-for-microsoft/>

Backup

Customer perspective

Ryan Schuttloffel

System Engineer,
Border States



“
Amazement. I now have an entire systems view,
which is rare. I have to check my phone a whole
lot less over evenings and weekend.”

Richard Esteve

Tech Leader,
Orange Business Services



“
To effectively manage their IT environments,
our customers require an understanding of
what is happening across the environment.
Blue Medora's out-of-the-box dashboards
provide exactly that, which is greatly improving
our overall customer experience.”

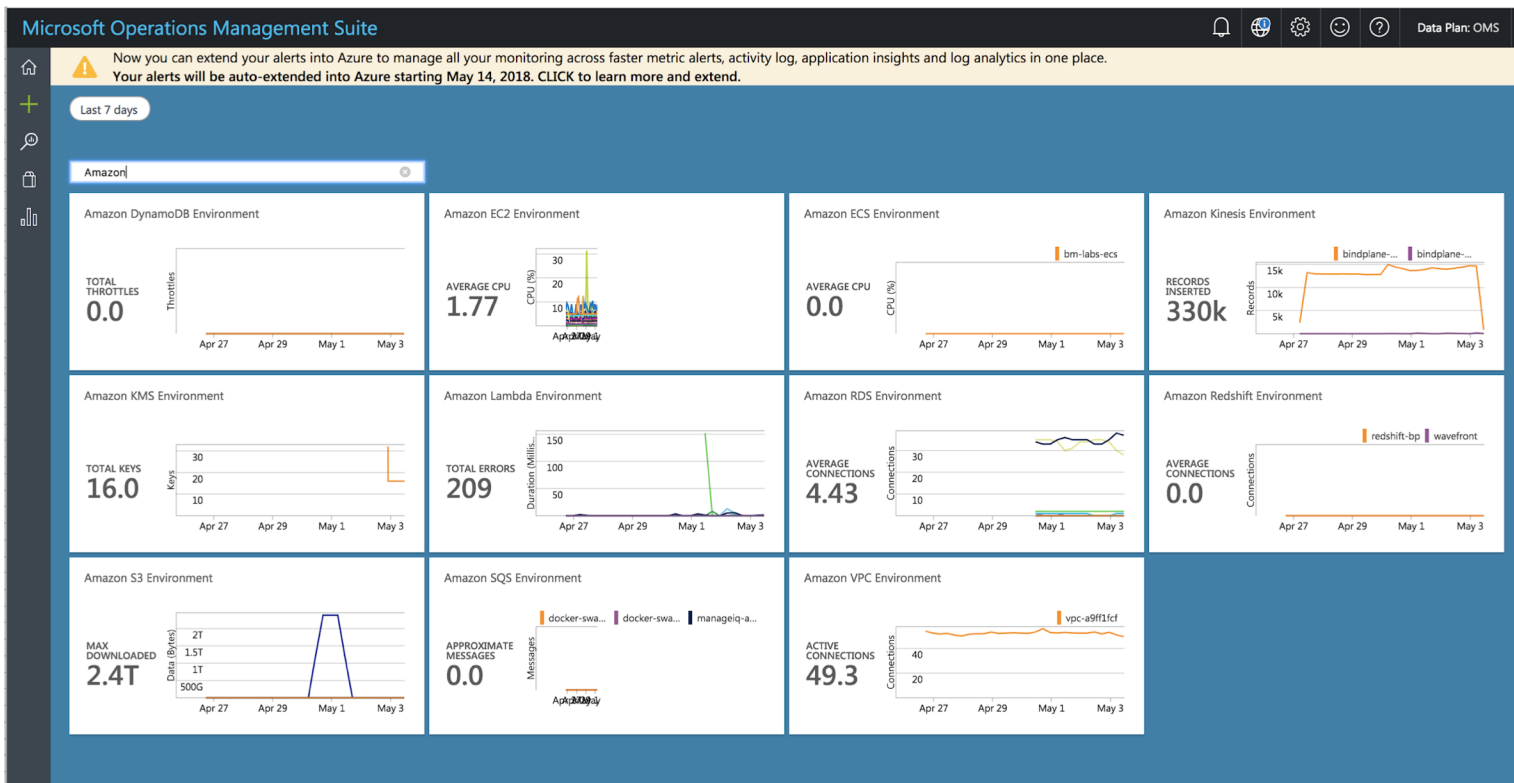
Ron Kozakowski

Data Services Manager,
Alliant Credit Union








“
We can show our development department
things on their servers that we could never
have done before.”

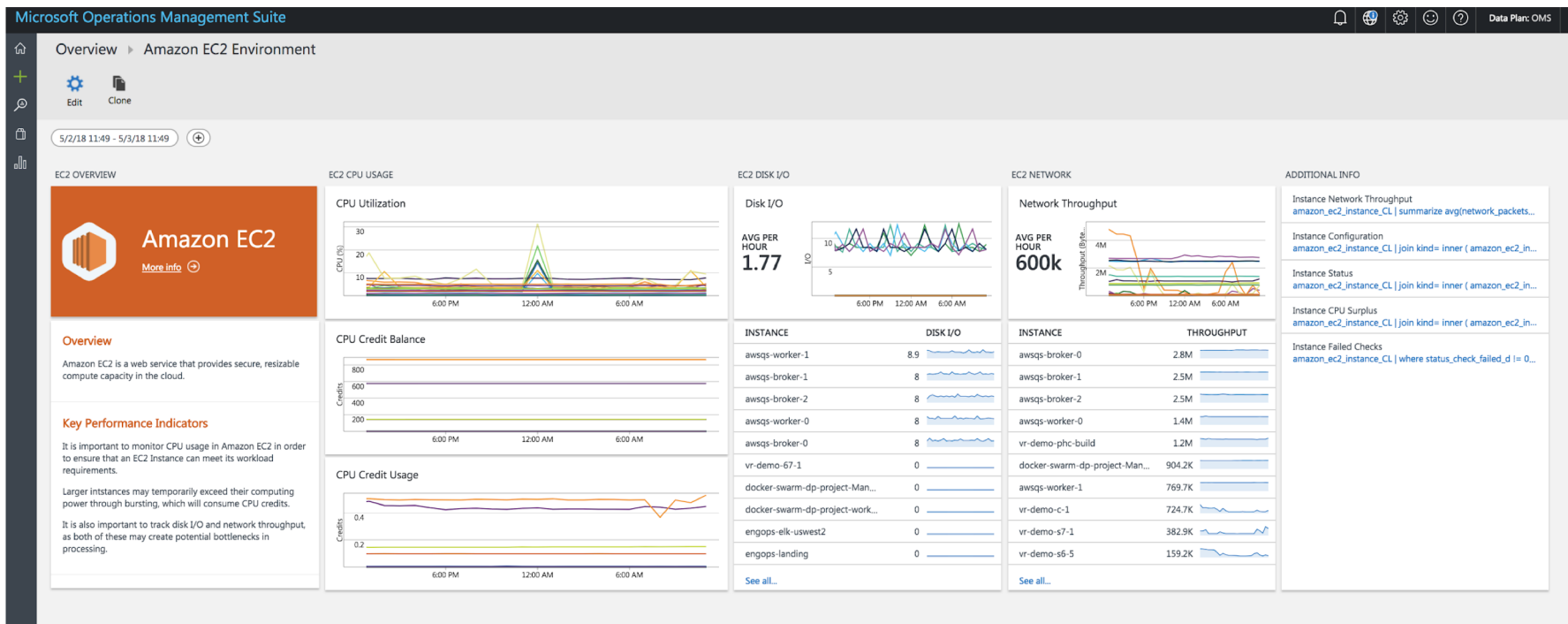
MSFT Log Analytics for Multi-Cloud (Preview Launched in May)



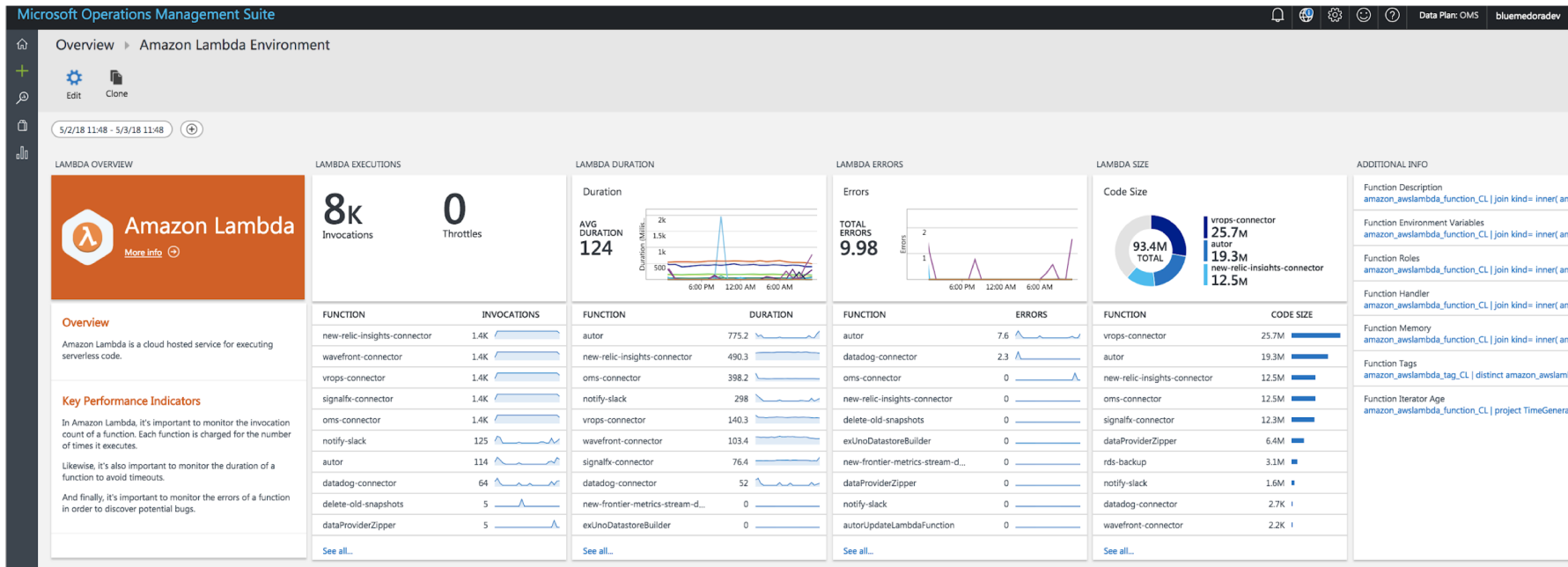
Deep Insights for 38 distinct AWS Services

	 Amazon Elastic Compute (EC2)	 AWS Key Management Service (KMS)	 Amazon Route 53	 Amazon ElastiCache Memcached	 Amazon DynamoDB
 Amazon Simple Storage (S3)	 Amazon Elasticsearch	 Amazon Kinesis Analytics	 Amazon ElastiCache Redis	 Amazon RDS - Oracle DB	
 Amazon Elastic Load Balancer (ELB)	 AWS Billing / Budget	 Amazon Kinesis Firehose	 AWS Elastic Beanstalk	 Amazon RDS - Microsoft SQL Server	
 Amazon Simple Queue Service (SQS)	 Amazon VPC	 Amazon Kinesis Video Streams	 Amazon Auto Scaling	 Amazon RDS - PostgreSQL	
 Amazon Simple Notification Service (SNS)	 Amazon CloudFront	 Amazon Kinesis	 AWS OpsWorks	 Amazon RDS - MySQL	
 Amazon CloudSearch	 Amazon WorkSpaces	 Amazon API Gateway	 Amazon Glacier	 Amazon RDS - MariaDB	
 Amazon Elastic Block Storage (EBS)	 Amazon EC2 Container Service	 Amazon Simple Email Service (SES)	 Amazon Elastic File System (EFS)	 Amazon RDS - Aurora	

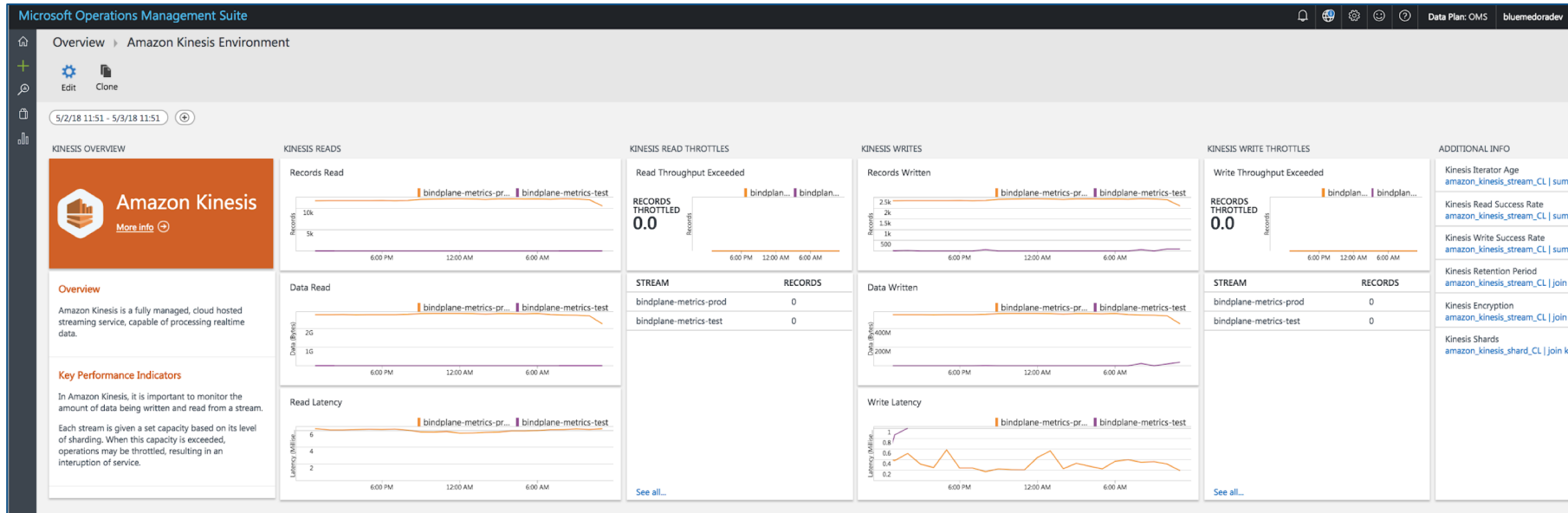
Enabling drill-down into AWS EC2



Enabling drill-down into AWS Lambda



Enabling drill-down into AWS Kinesis



Google Cloud SQL

Microsoft Operations Management Suite

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Overview ▶ Google Cloud SQL Environment

⚙️ 📄
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5/2/18 11:44 - 5/3/18 11:44

GOOGLE CLOUD SQL OVERVIEW



Google Cloud
SQL
[More info](#)

Overview

Google Cloud SQL is a fully-managed database service for administering relational databases on Google Cloud.

Key Performance Indicators

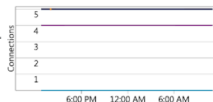
In Google Cloud SQL, it is important to monitor the number of connections to a database instance. This will help indicate the load on an instance and gauge its current scale.

Likewise, it's also important to monitor the queries and operations of an instance. Abnormally high transactions can have an adverse effect on the responsiveness of the database.

INSTANCE CONNECTIONS

Connections

AVERAGE
CONNECTIO...
3.03



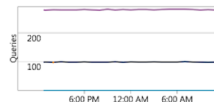
INSTANCE	CONNECTIONS
mysql-test-1	5
mysql-test-1-failover	4
postgres-test-1	0

[See all...](#)

QUERY COUNT

Queries

AVERAGE
QUERIES
126



INSTANCE	QUERIES
mysql-test-1-failover	278.9
mysql-test-1	98.3
postgres-test-1	0

[See all...](#)

INSTANCE READS

Read Ops

AVERAGE
READS
0.0044



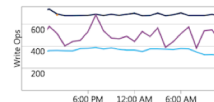
INSTANCE	READ OPS
mysql-test-1-failover	0
mysql-test-1	0
postgres-test-1	0

[See all...](#)

INSTANCE WRITES

Write Ops

AVERAGE
WRITES
518



INSTANCE	WRITE OPS
mysql-test-1	678
mysql-test-1-failover	452
postgres-test-1	319.6

[See all...](#)

ADDITIONAL INFO

Recent Events
[google_cloudsql_instance_CL | take 100](#)

Instance Configuration
[google_cloudsql_instance_CL | join kind= inner \(goog](#)

Instance Tier
[google_cloudsql_instance_CL | join kind= inner \(goog](#)

Instance Location
[google_cloudsql_instance_CL | join kind= inner \(goog](#)

Instance Memory
[google_cloudsql_instance_CL | summarize avg\(memor](#)

Instance CPU
[google_cloudsql_instance_CL | summarize avg\(cpuUtil](#)

Google Compute

Microsoft Operations Management Suite
Microsoft Operations Management Suite

Microsoft Operations Management Suite
Data Plan: OMS
bluemedoradev

Overview ► Google Compute Environment

Edit Clone

5/2/18 11:53 - 5/3/18 11:53

GOOGLE COMPUTE OVERVIEW



Overview

Google Compute Engine is a cloud hosted service that delivers virtual machines running in Google's data centers and worldwide fiber network.

Key Performance Indicators

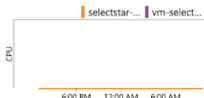
In Google Compute, it is important to monitor runtime resources, such as CPU, network traffic, and disk.

Contention in these resources will inevitably degrade the performance of applications running on a Google Compute instance.

INSTANCE CPU

CPU Utilization

AVG CPU
0.0



INSTANCE	CPU
selectstar-collector	0
vm-selectstar-collector-again	0

[See all...](#)

INSTANCE RECEIVED THROUGHPUT

Received Throughput

RECEIVED THROUGHPUT
0.0



INSTANCE	RECEIVED THROUGHPUT
selectstar-collector	0
vm-selectstar-collector-again	0

[See all...](#)

INSTANCE SENT THROUGHPUT

Sent Throughput

SENT THROUGHPUT
0.0



INSTANCE	SENT THROUGHPUT
selectstar-collector	0
vm-selectstar-collector-again	0

[See all...](#)

DISK THROTTLING

Throttled Ops

THROTTLING OPS
0.0



INSTANCE	THROTTLING OPS
selectstar-collector	0
vm-selectstar-collector-again	0

[See all...](#)

ADDITIONAL INFO

Recent Events

google_computeengine_instance_CL | take 100

Instance Configuration
google_computeengine_instance_CL | join kind= inner (goog

Instance Location
google_computeengine_instance_CL | join kind= inner (goog

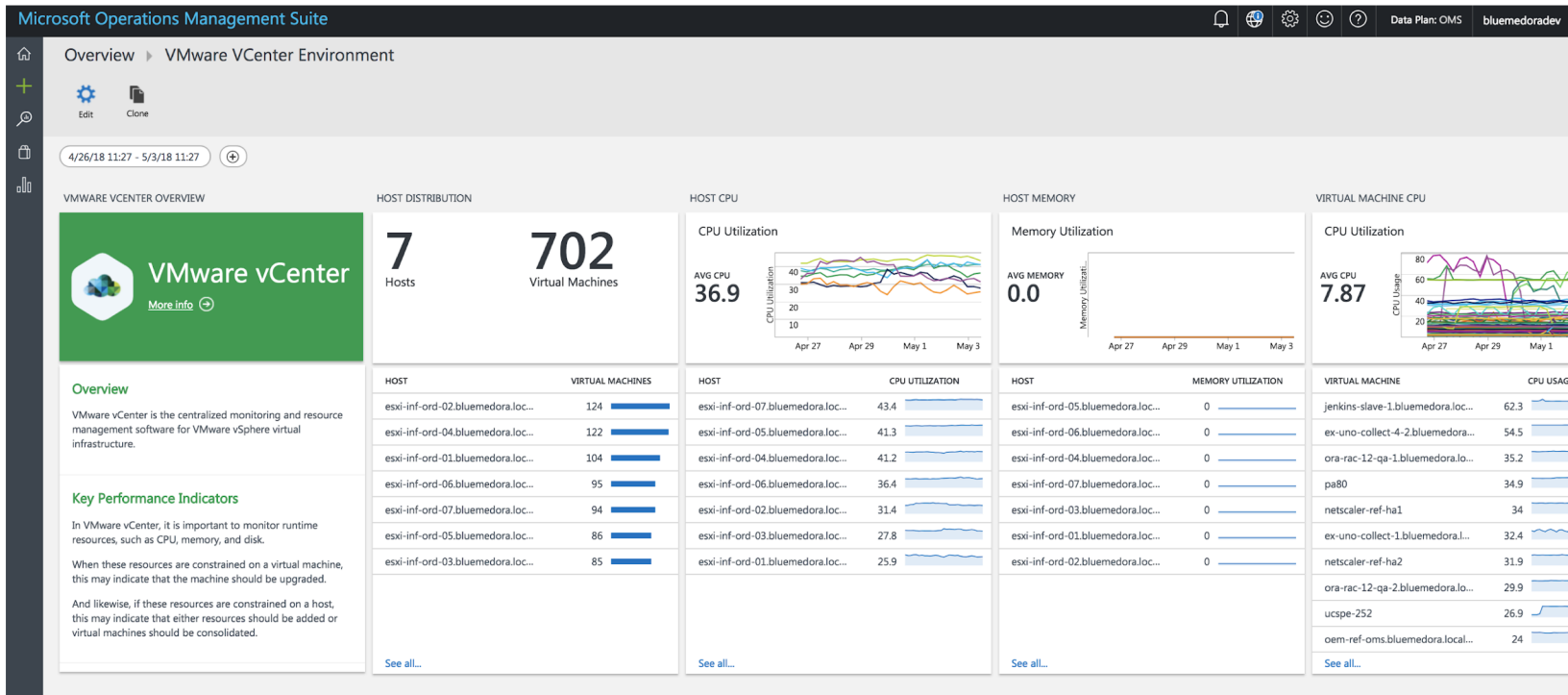
Disk Configuration
google_computeengine_disk_CL | join kind= inner (goog

Disk Throughput
google_computeengine_disk_CL | summarize avg(writ

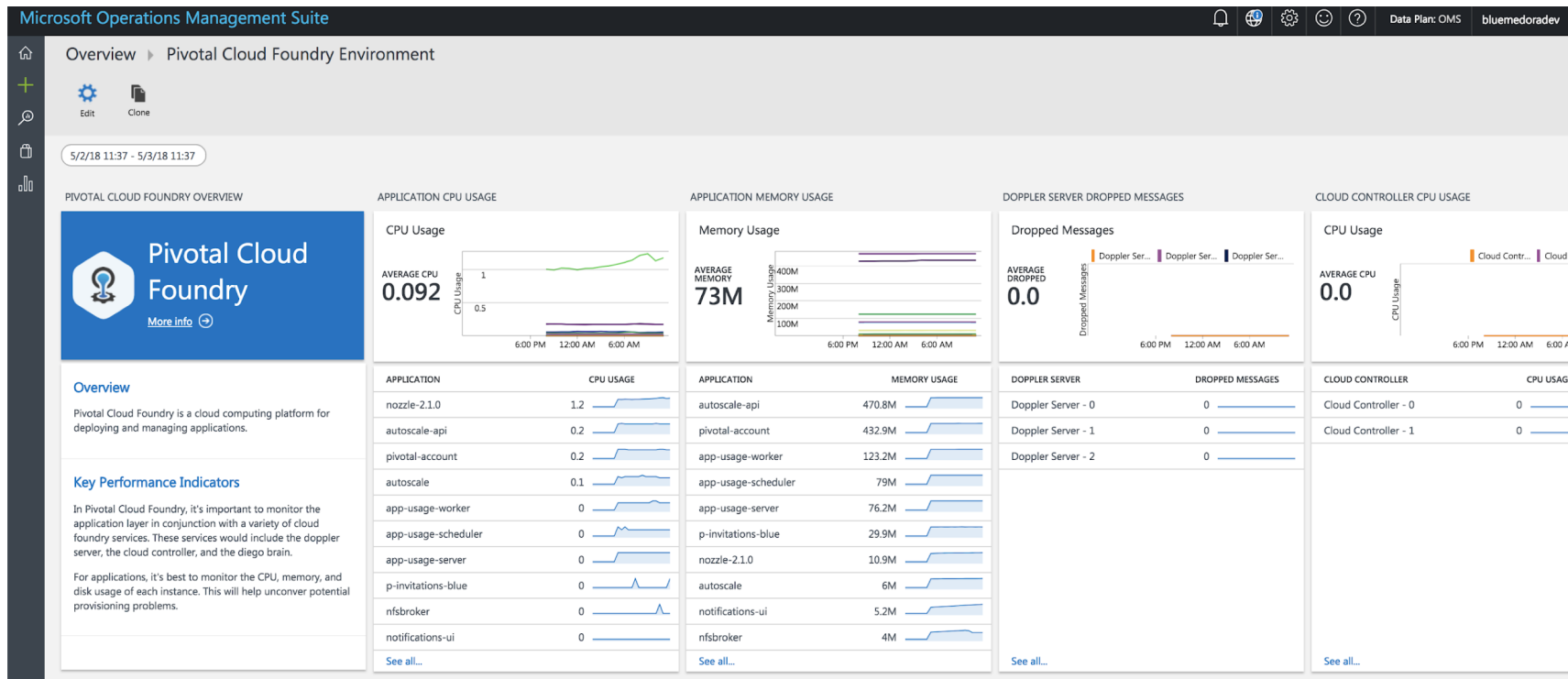
avg(memor

avg(cpuUtil

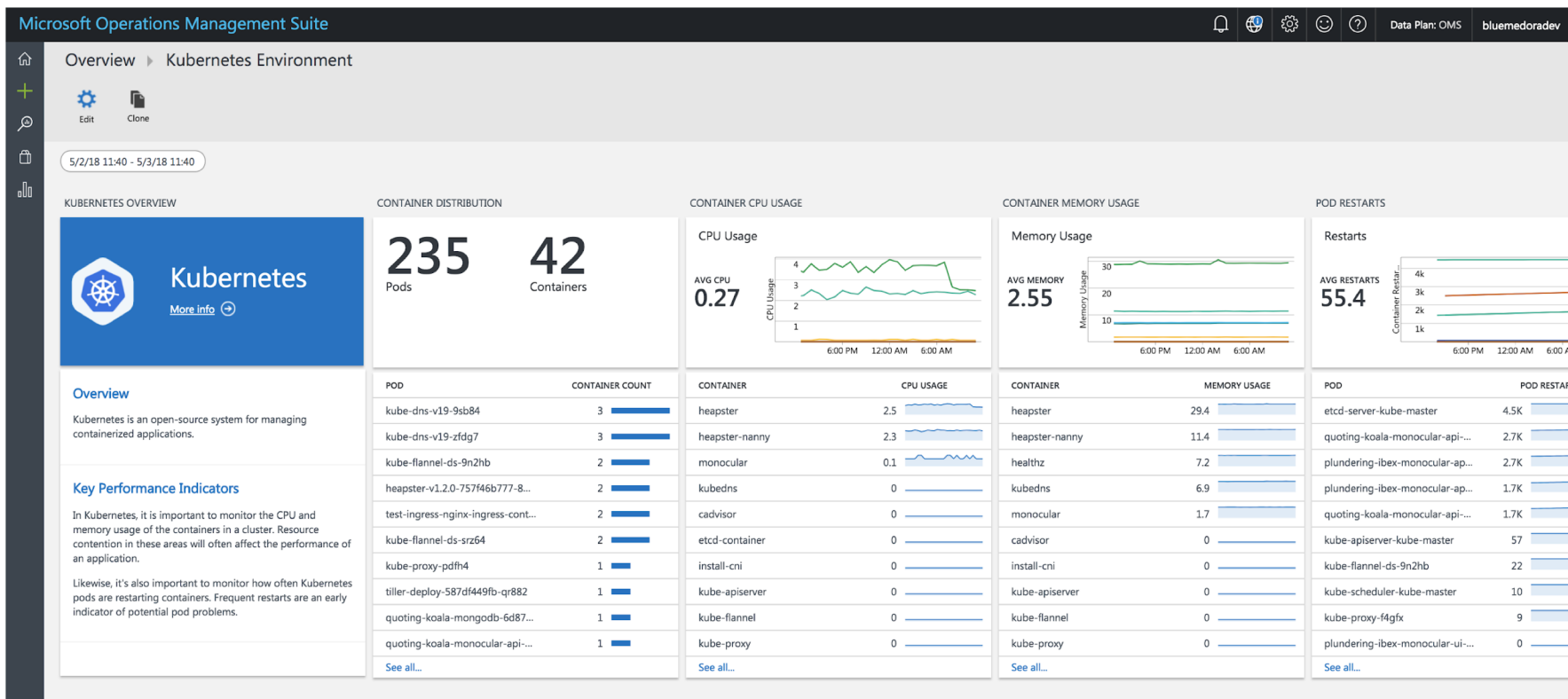
VMware vSphere



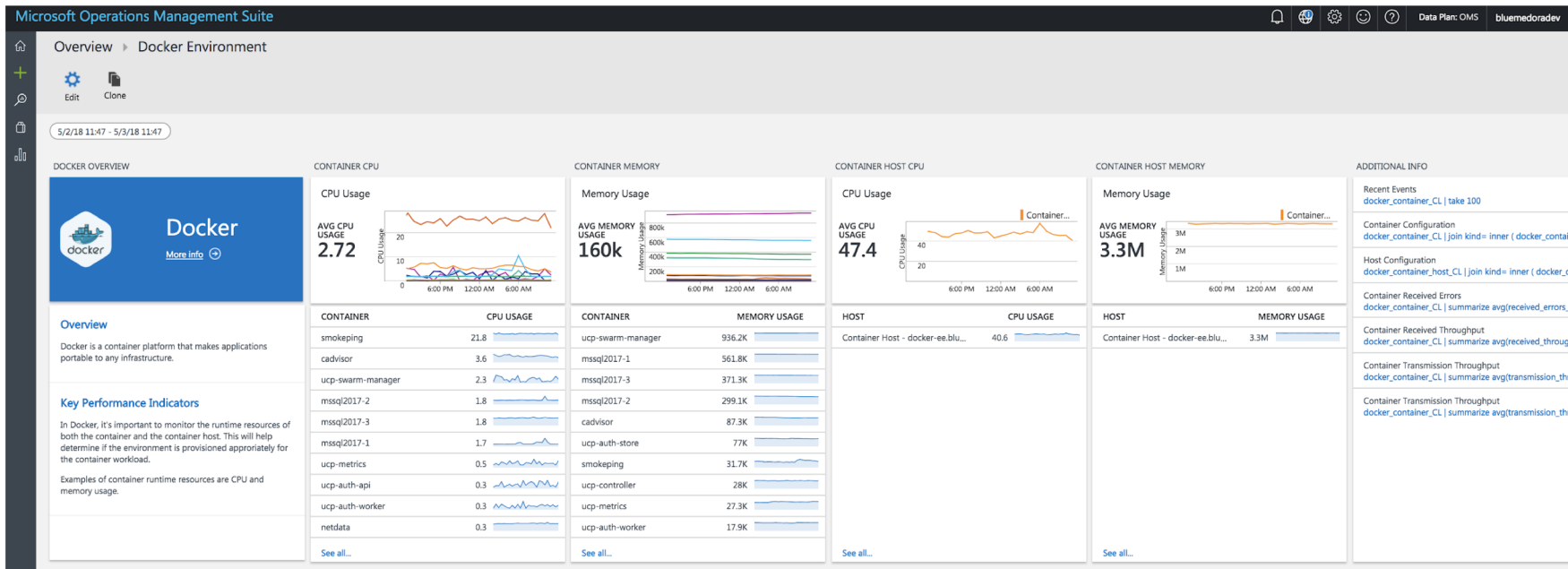
Pivotal Cloud Foundry



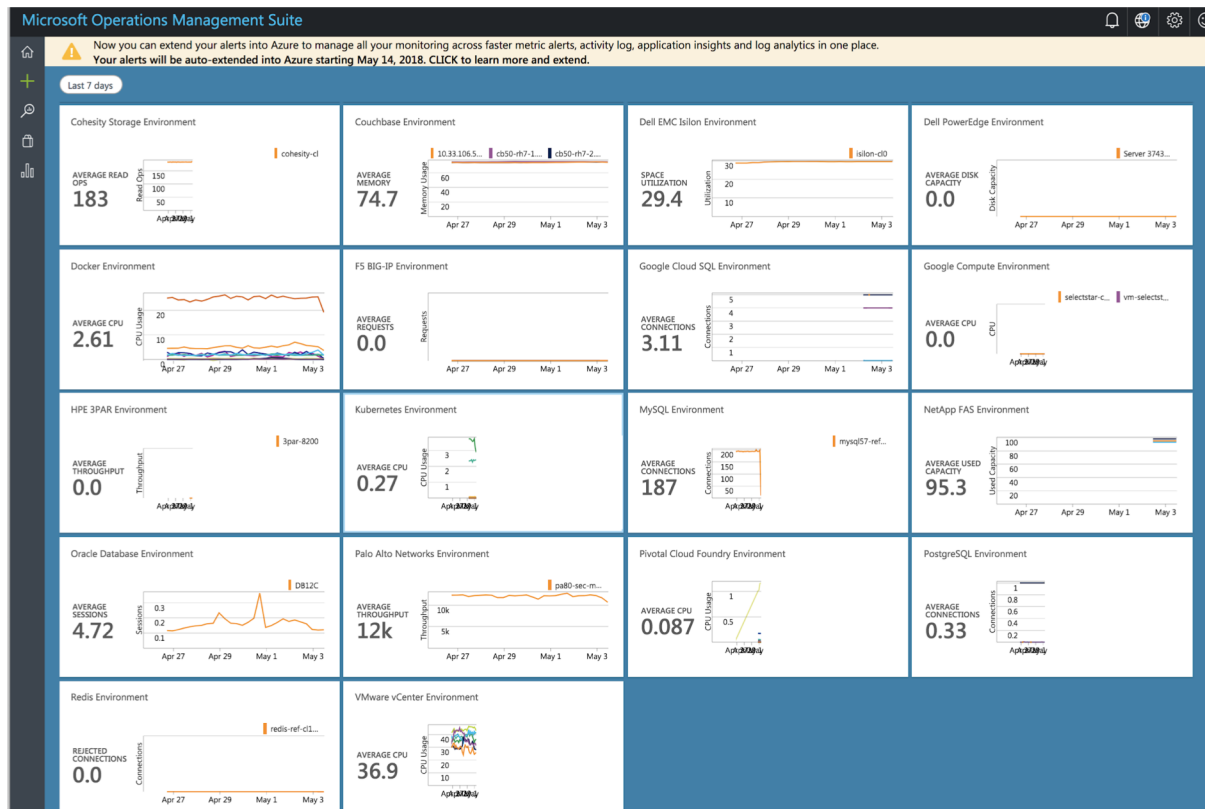
Kubernetes



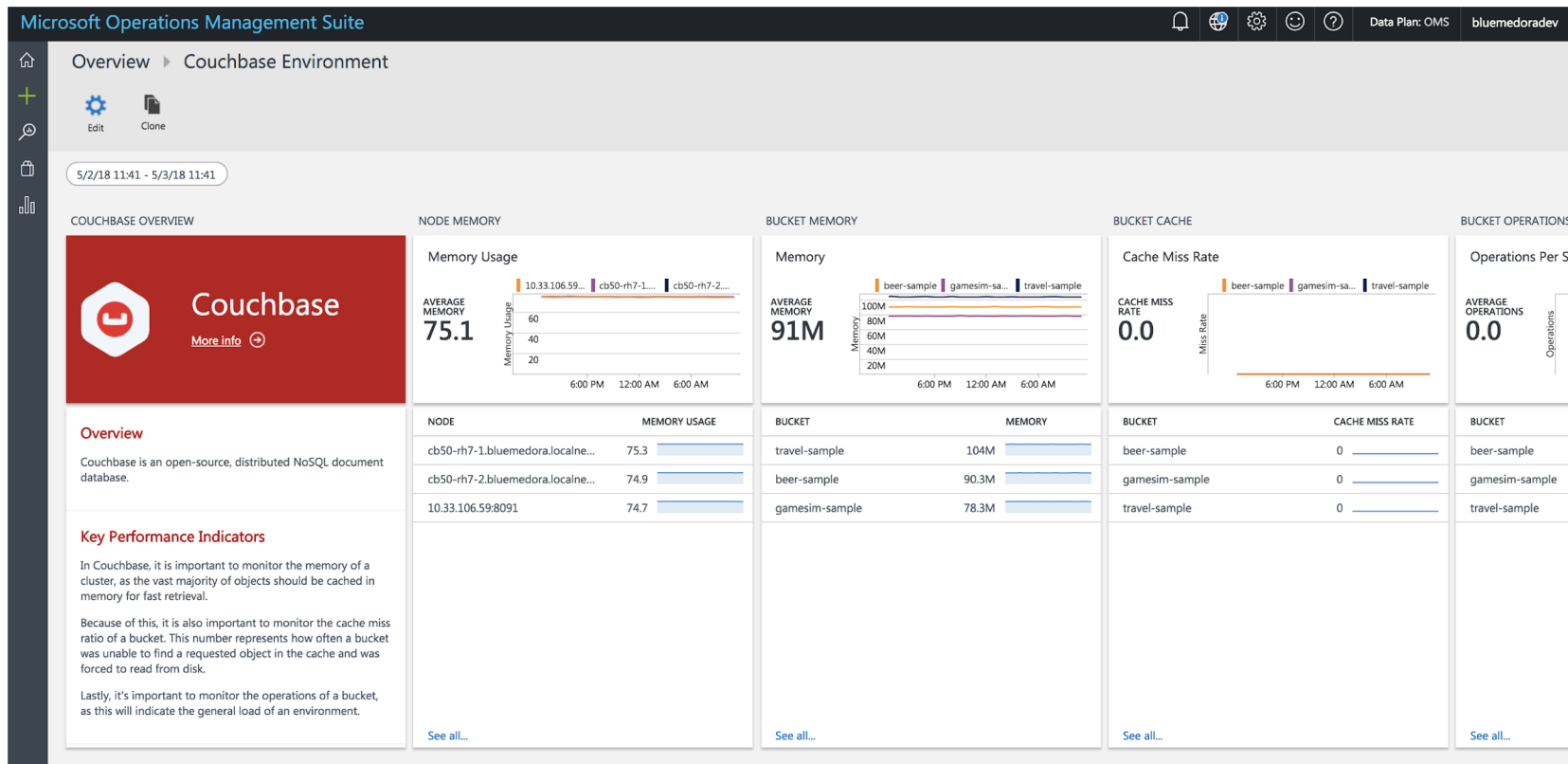
Docker (cAdvisor)



DataOps / PaaS / DevOps / On Prem Infrastructure



Couchbase



Redis

Microsoft Operations Management Suite

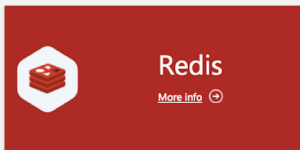
🔔 ⓘ ⚙️ 😊 ? Data Plan: OMS bluemedora.dev

Overview > Redis Environment



5/2/18 11:59 - 5/3/18 11:59

REDIS OVERVIEW



Overview

Redis is an open source, in-memory data structure store, used as a database, cache and message broker.

Key Performance Indicators

In Redis, it is important to monitor rejected connections. When rejected connections occur, this indicates that an application has been unable to communicate with the server, resulting in a disruption of service.

Likewise, it is also important to monitor the memory used by the Redis server. When memory exceeds the physical limit, the server will start swapping and performance will degrade.

SERVER REJECTIONS

Rejected Connections



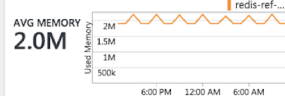
SERVER REJECTED CONNECTIONS

redis-ref-cl1-1.6379 0

[See all...](#)

SERVER MEMORY

Used Memory



SERVER MEMORY

redis-ref-cl1-1.6379 1.9M

[See all...](#)

SERVER EVICTED KEYS

Evicted Keys



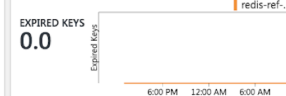
SERVER EVICTED KEYS

redis-ref-cl1-1.6379 0

[See all...](#)

SERVER EXPIRED KEYS

Expired Keys



SERVER EXPIRED KEYS

redis-ref-cl1-1.6379 0

[See all...](#)

ADDITIONAL INFO

Recent Events
[redis_server_CL | take 100](#)

Cluster Status
[redis_cluster_CL | join kind= inner \(redis_cluster_CL | s](#)

Cluster Size
[redis_cluster_CL | join kind= inner \(redis_cluster_CL | s](#)

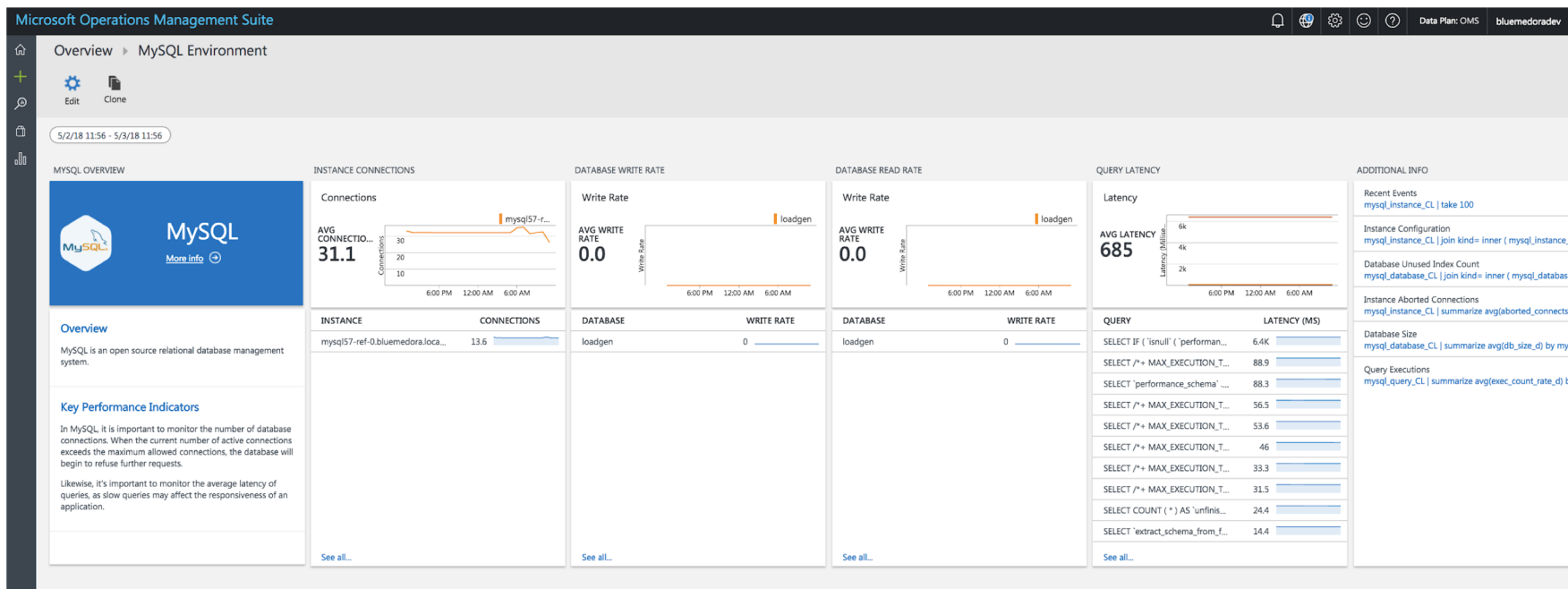
Database Status
[redis_database_CL | join kind= inner \(redis_database_CL | s](#)

Cluster Sent Messages
[redis_cluster_CL | summarize avg\(cluster_stats_messag](#)

Cluster Received Messages
[redis_cluster_CL | summarize avg\(cluster_stats_messag](#)

Cluster Instantaneous Ops
[redis_cluster_CL | summarize avg\(avg_instantaneous_o](#)

MySQL Database



Dell Compute

Microsoft Operations Management Suite

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Overview ▸ Dell PowerEdge Environment



5/2/18 11:45 - 5/3/18 11:45

DELL POWEREDGE OVERVIEW



Dell PowerEdge

[More info](#)

Overview

Dell PowerEdge is a server line offered by Dell.

Key Performance Indicators

In Dell PowerEdge, it is important to monitor runtime resources, such as CPU, memory, and disk.

SERVER DISK CAPACITY

Disk Capacity

AVERAGE DISK CAPACITY
0.0



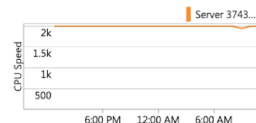
SERVER	DISK CAPACITY
Server 37434008593 t620-dev	0 <div></div>

[See all...](#)

SERVER PROCESSOR SPEED

CPU Speed

AVERAGE CPU SPEED
2.0k



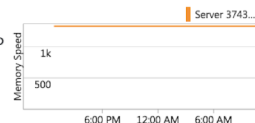
SERVER	CPU SPEED
Server 37434008593 t620-dev	2K <div></div>

[See all...](#)

SERVER MEMORY SPEED

Memory Speed

AVERAGE MEMORY SPEED
1.3k



SERVER	MEMORY SPEED
Server 37434008593 t620-dev	1.3K <div></div>

[See all...](#)

ADDITIONAL INFO

Recent Events

dell_compute_rack_server_CL | take 100

Server Model

dell_compute_rack_server_CL | join kind= inner (dell_comp

Server IP

dell_compute_rack_server_CL | join kind= inner (dell_comp

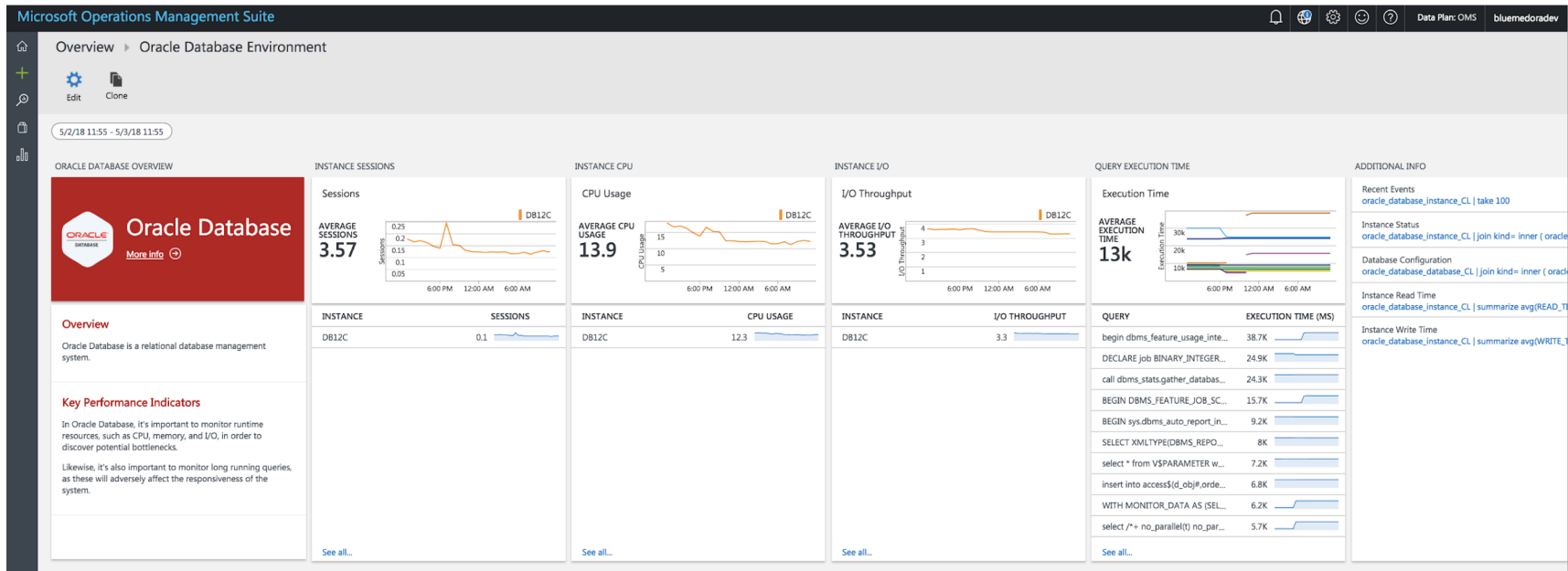
Server OS

dell_compute_rack_server_CL | join kind= inner (dell_comp

Server BIOS

dell_compute_rack_server_CL | join kind= inner (dell_comp

Oracle Database



Cisco Nexus

Microsoft Operations Management Suite

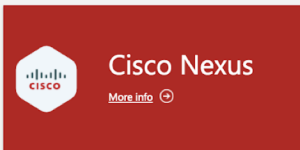
🔔 🌐 ⚙️ 😊 ? Data Plan: OMS bluemedora.dev

Overview ▶ Cisco Nexus Environment



5/2/18 11:57 - 5/3/18 11:57

CISCO NEXUS OVERVIEW



Overview

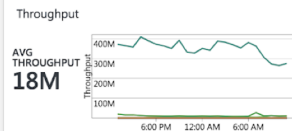
Cisco Nexus is a series of network switches designed for the traditional data center.

Key Performance Indicators

In Cisco Nexus, it is important to monitor the traffic of the switch.

When throughput exceeds the bandwidth of the switch, network packets will be dropped, resulting in lost data.

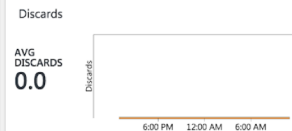
PORT THROUGHPUT



PORT	THROUGHPUT
sw-nx5010-1: FIC-A Port 6	275.6M
sw-nx5010-1: Ethernet1/20	10.5M
sw-nx5010-1: Uplink to 5524	10.4M
sw-nx5010-1: Cohesity Data Ne...	696.6K
sw-nx5010-1: Dell T620 VM Tra...	208.9K
sw-nx5010-1: FIC-B Port 6	11.5K
sw-nx5010-1: mgmt0	8.9K
sw-nx5010-1: FAS 3240 ISCSI Tr...	74.8
sw-nx5010-1: Ethernet1/5	0
sw-nx5010-1: Ethernet1/9	0

[See all...](#)

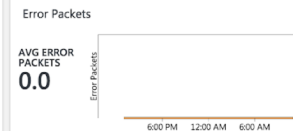
PORT DISCARDS



PORT	DISCARDS
sw-nx5010-1: FAS 3240 ISCSI Tr...	0
sw-nx5010-1: Cohesity Data Ne...	0
sw-nx5010-1: Ethernet1/10	0
sw-nx5010-1: Ethernet1/15	0
sw-nx5010-1: Ethernet1/19	0
sw-nx5010-1: Ethernet1/20	0
sw-nx5010-1: Ethernet1/2	0
sw-nx5010-1: Ethernet1/5	0
sw-nx5010-1: Ethernet1/8	0
sw-nx5010-1: Ethernet1/9	0

[See all...](#)

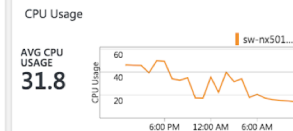
PORT ERROR PACKETS



PORT	ERROR PACKETS
sw-nx5010-1: FAS 3240 ISCSI Tr...	0
sw-nx5010-1: Cohesity Data Ne...	0
sw-nx5010-1: Ethernet1/10	0
sw-nx5010-1: Ethernet1/15	0
sw-nx5010-1: Ethernet1/19	0
sw-nx5010-1: Ethernet1/20	0
sw-nx5010-1: Ethernet1/2	0
sw-nx5010-1: Ethernet1/5	0
sw-nx5010-1: Ethernet1/8	0
sw-nx5010-1: Ethernet1/9	0

[See all...](#)

SWITCH CPU USAGE



SWITCH	CPU USAGE
sw-nx5010-1	14.3

[See all...](#)

ADDITIONAL INFO

Recent Events
[cisco_networking_port_CL | take 100](#)

Switch Attached MAC
[cisco_networking_switch_CL | join kind= inner \(cisco_r](#)

Switch Model
[cisco_networking_switch_CL | join kind= inner \(cisco_r](#)

Switch IP
[cisco_networking_switch_CL | join kind= inner \(cisco_r](#)

Port Bandwidth
[cisco_networking_port_CL | join kind= inner \(cisco_net](#)

Port Configuration
[cisco_networking_port_CL | join kind= inner \(cisco_net](#)

Ports Down
[cisco_networking_switch_CL | summarize avg\(port_stat](#)

Ports in Error
[cisco_networking_switch_CL | summarize avg\(port_stat](#)

NetApp Storage

Overview ▶ NetApp FAS Environment



5/2/18 11:58 - 5/3/18 11:58

NETAPP FAS OVERVIEW



NetApp FAS

[More info](#) ⓘ

Overview

NetApp FAS is a fabric-attached storage system that can serve storage over a network using file-based protocols such as NFS, SMB, FTP, TFTP, and HTTP.

Key Performance Indicators

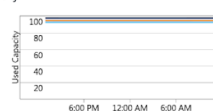
In NetApp FAS, it's important to monitor the capacity of the aggregates and volumes. When capacity is reached, the storage system will be unable to operate as expected.

Likewise, it's also important to monitor the latency of reads and writes. Highly latent operations will cause applications to appear unresponsive.

AGGREGATE CAPACITY

Used Capacity

AVERAGE
USED
CAPACITY
95.3



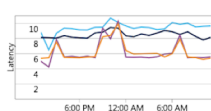
AGGREGATE	USED CAPACITY
aggr_1	98
aggr0_fas3240c_02_0	95
aggr0	95
aggr_2	93

[See all...](#)

AGGREGATE LATENCY

Latency

AVERAGE
LATENCY
7.54



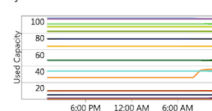
AGGREGATE	LATENCY (MS)
aggr_2	9.6
aggr_1	8.2
aggr0	5.6
aggr0_fas3240c_02_0	5.4

[See all...](#)

VOLUME USED CAPACITY

Used Capacity

AVERAGE
USED
CAPACITY
38.0



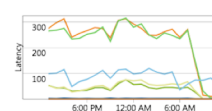
VOLUME	USED CAPACITY
fas3240c_svm_iscsi_lun_epops...	97
netapp_iscsi_perf_vol	97
ucis_iscsi_vol	91
kraken6_lun_vol	88
ucis_nfs_vol	87
vol_nfs_vmware_thin	82
vol_nfs_vmware_cap	82
vol_temp_nfs_jon	73
vcsa_test_vvol1	64
vol_nfs_qos	47

[See all...](#)

VOLUME LATENCY

Latency

AVERAGE
LATENCY
26.5



VOLUME	LATENCY (MS)
netapp_iscsi_perf_vol	57.7
ucis_iscsi_vol	12.5
vol_nfs_vmware_thick	8.7
vol0	1.6
ucis_nfs_vol	0.3
vol_epops_nfs	0.1
DJ_Test	0.1
fas3240csvm_iscsi_root	0.1
vol_nfs_vmware_cap	0.1
fas3240cusciscsi_root	0

[See all...](#)

ADDITIONAL INFO

Recent Events
[netapp_apiservices_aggregate_CL | take 100](#)

Aggregate Reads
[netapp_apiservices_aggregate_CL | summarize avg\(av](#)

Aggregate Writes
[netapp_apiservices_aggregate_CL | summarize avg\(av](#)

Aggregate Utilization
[netapp_apiservices_aggregate_CL | summarize avg\(uti](#)

Volume Reads
[netapp_apiservices_volume_CL | summarize avg\(read_v](#)

Volume Writes
[netapp_apiservices_volume_CL | summarize avg\(write_v](#)

Volume Available Size
[netapp_apiservices_volume_CL | summarize avg\(size_v](#)