ō BindPlane for Microsoft Azure Monitor Inem bluemedora*

What we do





Agentless Always on, always updated, API-based



Dimensional data Exploit deeper visibility and relational "dimensionality"



aws

(E)

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...

Azure Workload Monitoring

Oracle, MSSQL, PostgreSQL, Couchbase, Kubernetes, Docker, SAP, Tomcat and more

Multi-cloud Monitoring

Integrate resource monitoring of other clouds - Amazon, Google, IBM

On Prem Datacenter Monitoring

Monitor datacenter technologies - VMWare, Nutanix, Cisco, F5, NetApp, Dell-EMC, HP

~200+ enterprise technologies in 2018



Blue Medora BindPlane MlaaS







Our Value

aws

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

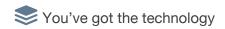
Shift from reactive to proactive approach to management and monitoring.

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





Full stack visibility



Install the agentless collector

Select the key technologies running in your stack



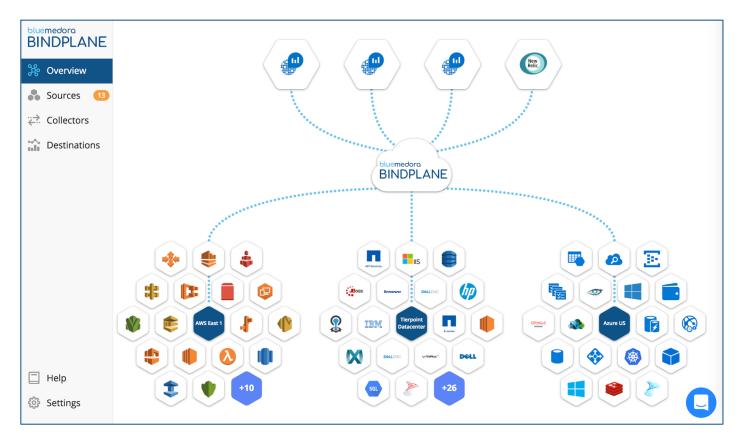


02

Connect Azure Monitor



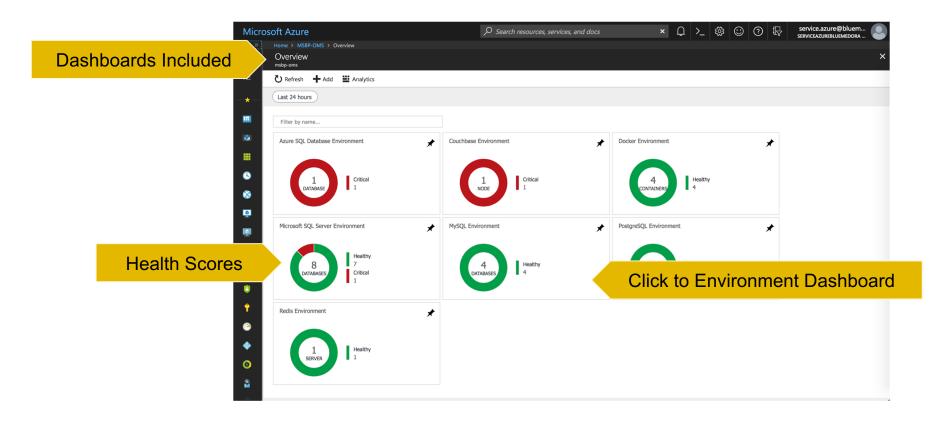
BindPlane: Monitoring Integration as a Service



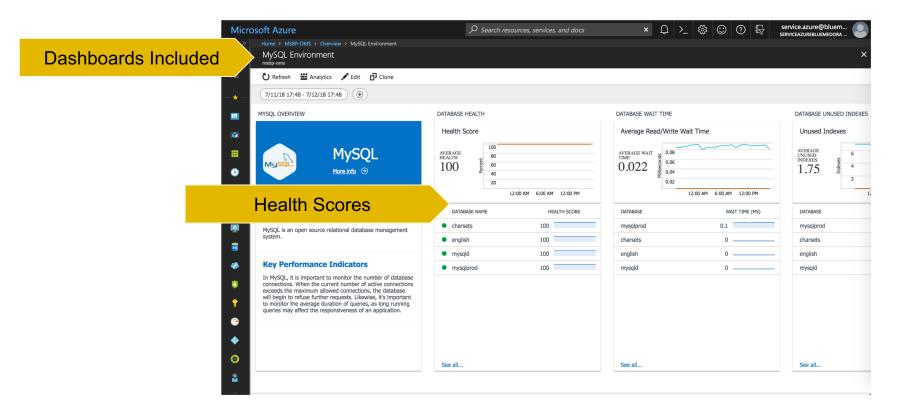
Docker (cAdvisor)

Microsoft Operations Management Suite Image: Constraint of Constraint				Q 🚳 🔅	② ⑦ Data Plan: OMS bluemedoradev
€ (3/2/18 1147 - 5/3/18 1147) DOCKER OVERVIEW DOCKER OVERVIEW DOCKER COVERVIEW More linfo @	CONTAINER CPU CPU Usage USAGE 2.72	CONTAINER MEMORY Memory Usage Avg MEMORY USAGE 160k	CONTAINER HOST CPU CPU Usage USAGE 40 20 660 PM 1250 AM 600 AM	CONTAINER HOST MEMORY Memory Usage USAGE 3.3M M 2M 2M 1M 660 PM 1250 AM 600 AM	ADDITIONAL INFO Recent Events docker_container_CL take 100 Container Configuration docker_container_CL join kind= inner (docker_contai Host Configuration docker_container_host_CL join kind= inner (docker_c Container Received Errors
Overview Docker is a container platform that makes applications portable to any infrastructure.	CONTAINER CPU USAGE smokeping 21.8 cadvisor 3.6	CONTAINER MEMORY USAGE ucp-swarm-manager 936.2K mssql2017-1 561.8K	HOST CPU USAGE Container Host - docker-ee.blu 40.6	HOST MEMORY USAGE Container Host - docker-ee.blu 3.3M	docker_container_CL summarize avg(received_errors_ Container Received Throughput docker_container_CL summarize avg(received_throug Container_Transmission Throughput
Key Performance Indicators In Docker, it's important to monitor the runtime resources of both the container and the container host. This will help determine if the environment is provisioned approriately for the container workload. Examples of container runtime resources are CPU and memory usage.	ucp-swam-manager 2.3 mssq2017-2 1.8 mssq2017-3 1.8 ucp-metrics 0.5 ucp-netrics 0.3 ucp-auth-worker 0.3 netdata 0.3	mssql2017-3 371.3K mssql2017-2 299.1K cadvdor 87.3K ucp-auth-store 77.K ucp-controller 28K ucp-metrics 27.3K ucp-auth-worker 17.9K			docker_container_CL summarize avg(transmission_thr Container Transmission Throughput docker_container_CL summarize avg(transmission_thr
	See all	See all	See all	See all	

Azure Workload Monitoring with BindPlane



Azure Workload Monitoring with BindPlane



Azure Workload Monitoring with BindPlane

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+	Home > MSBP-OMS > Overview > MySQL Environment msbp-oms	MySQL Environment					×	
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- * -	7/11/18 17:48 - 7/12/18 17:48							
	QUERY AVERAGE L		QUERY AVERAGE ERRORS			RELATED VIRTUAL MACHINES		
(e)	mysqlprod:3	Average Latency		Average Errors		Virtual Machines		
0		521 ^{1k} 500		0.0		1	Relations	hip to Azure VM
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	CONNECTIONS	QUERY	LATENCY (MS)	QUERY	AVERAGE ERRORS	VIRTUAL MACHINE	CPU	
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Depth to Que	ery Level	DROP TABLE IF EXISTS `CUST 1.	1К	CREATE INDEX `IDX_ORD	0			
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(DROP TABLE IF EXISTS `HIST 482	7	DROP TABLE IF EXISTS `D	0			
÷		DROP TABLE IF EXISTS `NEW 221	.9	CREATE TABLE `ITEM` (`	0			
		DROP TABLE IF EXISTS `ITEM` 171	.5	DROP TABLE IF EXISTS `I	0			
e		DROP TABLE IF EXISTS `DIST 139	.8	DROP TABLE IF EXISTS `N	0			
•		CREATE TABLE `WAREHOUSE 139	.1	DROP TABLE IF EXISTS `	0			
0		CREATE INDEX 'IDX_ORDER' 1	29	DROP TABLE IF EXISTS `	0			
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Multi-Cloud Monitoring with BindPlane

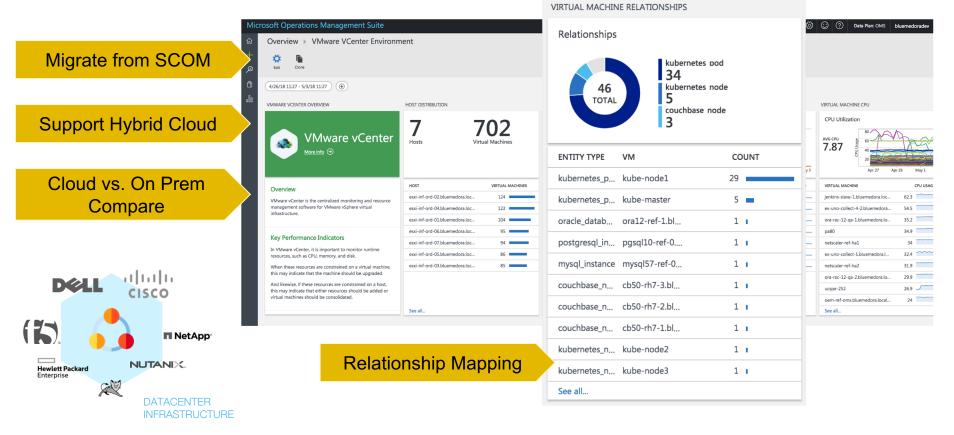
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ଜ	Overview 🕨 Amazon EC2 Environment				
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	EC2 OVERVIEW	EC2 CPU USAGE	EC2 DISK I/O	EC2 NETWORK	ADDITIONAL INFO
_		CPU Utilization	Disk I/O	Network Throughput	Instance Network Throughput amazon_ec2_instance_CL summariz
	Amazon EC2		1.77 2	AVG PER HOUR 600k	Instance Configuration Deep Config Data
_		5 10 600 PM 1200 AM 600 AM	5 600 PM 1200 AM 600 AM		Instance Status amazon_ec2_instance_CL join kind= inner (amazon_ec2_in
_			INSTANCE DISK I/O	INSTANCE THROUGHPUT	Instance CPU Surplus amazon_ec2_instance_CL join kind= inner (amazon_ec2_in
	Overview	CPU Credit Balance	awsgs-worker-1 8.9	awsgs-broker-0 2.8M	Instance Failed Checks
	Amazon EC2 is a web service that provides secure, resizable compute capacity in the cloud.	800	awsgs-broker-1 8	awsgs-broker-1 2.5M	amazon_ec2_instance_CL where status_check_failed_d i= 0
		2600 0 400	awsgs-broker-2 8	awsqs-broker-2 2.5M	
		200	awsgs-worker-0 8	awsgs-worker-0 1.4M	
redit	Usage	6:00 PM 12:00 AM 6:00 AM	awsqs-broker-0 8	vr-demo-phc-build 1.2M	
Tour	Obuge	CDU Condia Uson	vr-demo-67-1 0	docker-swarm-dp-project-Man, 904.2K	
	Larger intstances may temporarily exceed their computing	CPU Credit Usage	docker-swarm-dp-project-Man 0	awsqs-worker-1 769.7K	
	power through bursting, which will consume CPU credits.		docker-swarm-dp-project-work 0	vr-demo-c-1 724.7K	
	It is also important to track disk I/O and network throughput, as both of these may create potential bottlenecks in	Credit	engops-elk-uswest2 0	vr-demo-s7-1 382.9K	
	processing.	V2	engops-landing 0	vr-demo-s6-5 159.2K	
		6.00 PM 12:00 AM 6:00 AM	See all	See all	







On Premise Datacenter Monitoring with BindPlane



Blue Medora history



150 +

Category Defining

Breadth

The first Monitoring Integration as a Service (MIaaS) provider

Large and growing catalog of endpoint integrations

Proven

350+

Enterprise customers like BOSCH, Safeway, JP Morgan Chase







MATTER MOST

bluemedoro?

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**

"

BSE

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. "

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.

Richard Esteve

Orange Business Services

Tech Leader.

"

Ron Kozakowski

Data Services Manager, Alliant Credit Union



"

Business Services

"

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

bluemedoro?

"

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

Mic	osoft Operations Management Suite			다 🤀 🔅 😳 🕜 Data Plan: OMS k
	A Now you can extend your alerts into Azure to mana Your alerts will be auto-extended into Azure starti	ge all your monitoring across faster metric alerts, activity lo ng May 14, 2018. CLICK to learn more and extend.	g, application insights and log analytics in one place.	
+	Last 7 days			
ø				
Ô	Amazon			
. 00	Amazon DynamoDB Environment	Amazon EC2 Environment	Amazon ECS Environment	Amazon Kinesis Environment
	TOTAL THROTTLES 0.0 Apr 27 Apr 29 May 1 May 3	AVERAGE CPU 1.77	AVERAGE CPU B D.D Apr 27 Apr 29 May 1 May 3	RECORDS INSERTED 330k Apr 27 Apr 29 May 1 May 3
	Amazon KMS Environment	Amazon Lambda Environment	Amazon RDS Environment	Amazon Redshift Environment
	TOTAL KEYS 16.0 20 10 Apr 27 Apr 29 May 1 May 3	TOTAL ERRORS 209 50 Apr 27 Apr 29 May 1 May 3	AVERAGE CONNECTIONS 4.43	AVERAGE CONNECTIONS 0.0 Apr 27 Apr 29 May 1 May 3
	Amazon S3 Environment	Amazon SQS Environment	Amazon VPC Environment	
	AAX DOWNLOADED 2.4T Apr 27 Apr 29 May 1 May 3	APPROXIMATE 0.0 Approximate Ap	ACTIVE CONNECTIONS 40 20 Apr 27 Apr 29 May 1 May 3	

Deep Insights for 38 distinct AWS Services



Enabling drill-down into AWS EC2

Microsoft Operations Management Suite				다. 🤀 🐯 🙄 🕐 Data Plan: OMS
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EC2 OVERVIEW	EC2 CPU USAGE	EC2 DISK I/O	EC2 NETWORK	ADDITIONAL INFO
	CPU Utilization	Disk I/O	Network Throughput	Instance Network Throughput amazon_ec2_instance_CL summarize avg(network_packets
Amazon EC2	30 22 20	AVG PER HOUR 10	AVG PER HOUR 4M	Instance Configuration amazon_ec2_instance_CL join kind= inner (amazon_ec2_in
More info ⊙		5		Instance Status amazon_ec2_instance_CL join kind= inner (amazon_ec2_in
	6:00 PM 12:00 AM 6:00 AM	6:00 PM 12:00 AM 6:00 AM	6:00 PM 12:00 AM 6:00 AM	Instance CPU Surplus amazon_ec2_instance_CL join kind= inner (amazon_ec2_in
Overview	CPU Credit Balance	INSTANCE DISK I/O	INSTANCE THROUGHPUT	Instance Failed Checks
Amazon EC2 is a web service that provides secure, resizable compute capacity in the cloud.	800	awsqs-worker-1 8.9	awsqs-broker-0 2.8M	amazon_ec2_instance_CL where status_check_failed_d != 0
compute capacity in the cloud.	500	awsqs-broker-1 8 awsqs-broker-2 8	awsqs-broker-1 2.5M awsqs-broker-2 2.5M	
Key Performance Indicators	Š 400 200	awsqs-bloker-2 a	awsgs-worker-0 1.4M	
It is important to monitor CPU usage in Amazon EC2 in order	6:00 PM 12:00 AM 6:00 AM	awsqs-broker-0 8	vr-demo-phc-build 1.2M	
to ensure that an EC2 Instance can meet its workload requirements.		vr-demo-67-1 0	docker-swarm-dp-project-Man 904.2K	
Larger intstances may temporarily exceed their computing	CPU Credit Usage	docker-swarm-dp-project-Man 0	awsqs-worker-1 769.7K	
power through bursting, which will consume CPU credits.	0.4	docker-swarm-dp-project-work 0	vr-demo-c-1 724.7K	
It is also important to track disk I/O and network throughput, as both of these may create potential bottlenecks in	02	engops-elk-uswest2 0	vr-demo-s7-1 382.9K	
processing.		engops-landing 0	vr-demo-s6-5 159.2K	
	6:00 PM 12:00 AM 6:00 AM	See all	See all	

Enabling drill-down into AWS Lambda

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.Oo	LAMBDA OVERVIEW	LAMBDA EXECUTIONS		LAMBDA DURATION		LAMBDA ERRORS		LAMBDA SIZE		ADDITIONAL INFO
		0	0	Duration		Errors		Code Size		Function Description amazon_awslambda_function_CL join kind= inner(an
	🕋 Amazon Lambda	8K Invocations	U Throttles	AVG DURATION		TOTAL ERRORS 2	1		vrops-connector 25.7M autor	Function Environment Variables amazon_awslambda_function_CL join kind= inner(an
	More info			124 Jk 500	- ANK	9.98 ^b		93.4M TOTAL	19.3M new-relic-insights-connector 12.5M	Function Roles amazon_awslambda_function_CL join kind= inner(an
					M 12:00 AM 6:00 AM		PM 12:00 AM 6:00 AM			Function Handler amazon_awslambda_function_CL join kind= inner(an
	Overview	FUNCTION new-relic-insights-connector	INVOCATIONS	FUNCTION	775.2 >	FUNCTION	ERRORS	FUNCTION vrops-connector	CODE SIZE	Function Memory
	Amazon Lambda is a cloud hosted service for executing serverless code.	wavefront-connector	1.4K	new-relic-insights-connector	490.3	datadog-connector	2.3	autor	19.3M	amazon_awslambda_function_CL join kind= inner(an
		vrops-connector	1.4K	oms-connector	398.2	oms-connector	0	new-relic-insights-connect		Function Tags amazon_awslambda_tag_CL distinct amazon_awslaml
	Key Performance Indicators	signalfx-connector	1.4K	notify-slack	298	new-relic-insights-connector	0	oms-connector	12.5M	Function Iterator Age
	In Amazon Lambda, it's important to monitor the invocation	oms-connector	1.4K	vrops-connector	140.3	delete-old-snapshots	0	signalfx-connector	12.3M	amazon_awslambda_function_CL project TimeGenera
	count of a function. Each function is charged for the number of times it executes.	notify-slack	125	wavefront-connector	103.4	exUnoDatastoreBuilder	0	dataProviderZipper	6.4M	
	Likewise, it's also important to monitor the duration of a	autor	114	signalfx-connector	76.4	new-frontier-metrics-stream-d,	0	rds-backup	3.1M =	
	function to avoid timeouts.	datadog-connector	64	datadog-connector	52	dataProviderZipper	0	notify-slack	1.6M ■	
	And finally, it's important to monitor the errors of a function in order to discover potential bugs.	delete-old-snapshots	5	new-frontier-metrics-stream-d	0	notify-slack	0	datadog-connector	2.7K I	
		dataProviderZipper	5	exUnoDatastoreBuilder	0	autorUpdateLambdaFunction	0	wavefront-connector	2.2K I	
		See all		See all		See all		See all		

Enabling drill-down into AWS Kinesis

Microsoft Operations Management Suite			Q © © 4	Data Plan: OMS bluemedoradev
Overview Amazon Kinesis Environment				
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KINESIS OVERVIEW KINESIS READS	KINESIS READ THROTTLES	KINESIS WRITES	KINESIS WRITE THROTTLES	ADDITIONAL INFO
Records Read	Read Throughput Exceeded	Records Written bindplane-metrics-pr bindplane-metrics-	Write Throughput Exceeded	Kinesis Iterator Age amazon_kinesis_stream_CL sumr
Amazon Kinesis	rcs-pr Dindpiane-metrics-test RECORDS THROTTLED 0.0	25k Dindpiane-metrics-pr Dindpiane-metrics 25k 25k 25k 25k 25k 25k 25k 25k 25k 25k	RECORDS THROTTLED	Kinesis Read Success Rate amazon_kinesis_stream_CL sumr
600 PM 1220 AM	600 AM 600 PM 1200 AP	1k 500 500 600 PM 12:00 AM 600 AM	6.00 PM 12.00 AM 6.00 AM	Kinesis Write Success Rate amazon_kinesis_stream_CL sumr
Overview Data Read	STREAM	RECORDS Data Written	STREAM RECORDS	 Kinesis Retention Period amazon_kinesis_stream_CL join l
	ics-pr bindplane-metrics-test	0 bindplane-metrics-pr bindplane-metrics	-test bindplane-metrics-prod 0	Kinesis Encryption
streaming service, capable of processing realtime	bindplane-metrics-test	0	bindplane-metrics-test 0	amazon_kinesis_stream_CL join
2 IG		8 200M		Kinesis Shards amazon_kinesis_shard_CL join ki
Key Performance Indicators 6:00 PM 12:00 AM	6:00 [°] AM	600 PM 1200 AM 600 AM		
In Amazon Kinesis, it is important to monitor the amount of data being written and read from a stream. Read Latency		Write Latency		
Each stream is given a set capacity based on its level bindplane-metro of sharding. When this capacity is exceeded,	ics-pr bindplane-metrics-test	bindplane-metrics-pr bindplane-metrics	test	
operations may be throttled, resulting in an interuption of service.				
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Google Cloud SQL

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Overview 🕨 Google Cloud SQL Environm	ment								
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GOOGLE CLOUD SQL OVERVIEW	INSTANCE CONNECTIONS		QUERY COUNT		INSTANCE READS		INSTANCE WRITES		ADDITIONAL INFO
Google Cloud	Connections		Queries		Read Ops		Write Ops	-	Recent Events google_cloudsql_instance_CL take 100
SQL	AVERAGE CONNECTIO		AVERAGE QUERIES 126		AVERAGE READS 0.15 0.0044		AVERAGE WRITES 518		Instance Configuration google_cloudsql_instance_CL join kind= inner (googl
	1		120 3		0.0044 2	Λ		00	Instance Tier google_cloudsql_instance_CL join kind= inner (googl
		12:00 AM 6:00 AM		6:00 PM 12:00 AM 6:00 AM		6:00 PM 12:00 AM 6:00 AM		6:00 PM 12:00 AM 6:00 AM	Instance Location google_cloudsql_instance_CL join kind= inner (googl
Overview	INSTANCE	CONNECTIONS	INSTANCE	QUERIES	INSTANCE	READ OPS	INSTANCE	WRITE OPS	Instance Memory
Google Cloud SQL is a fully-managed database service for	mysql-test-1	5	mysql-test-1-failover			undefined	mysql-test-1	678	google_cloudsql_instance_CL summarize avg(memory
administering relational databases on Google Cloud.	mysql-test-1-failover	4 undefined	mysql-test-1	98.3	mysql-test-1-failover	0	mysql-test-1-failove		Instance CPU google_cloudsql_instance_CL summarize avg(cpuUtili
	postgres-test-1		postgres-test-1		mysql-test-1	0	postgres-test-1	319.6	Google_cloudsdi_listance_cr.l.sourinanze avg(cpuotin
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.	postgres-test-1	0	posigres-test-1	0	posigres-test-1	0		underined	
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.									
	See all		See all		See all		See all		



Google Compute

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	GOOGLE COMPUTE OVERVIEW	INSTANCE CPU	INSTANCE RECEIVED THROUGHPUT	INSTANCE SENT THROUGHPUT	DISK THROTTLES	ADDITIONAL INFO
	Coord	CPU Utilization	Received Throughput	Sent Throughput	Throttled Ops	Recent Events google_computeengine_instance_CL take 100
	Google Compute	AVG CPU	RECEIVED THROUGHPUT	SENT THROUGHPUT	DPS 0.0	Instance Configuration google_computeengine_instance_CL join kind= inner
	More info ↔		U.O source	U.O south	Thrott	Instance Location google_computeengine_instance_CL join kind= inner
		6:00 PM 12:00 AM 6:00 AM	Disk Configuration inner (googl			
	Overview	INSTANCE CPU	INSTANCE RECEIVED THROUGHPUT	INSTANCE SENT THROUGHPUT	INSTANCE THROTTLED OPS	google_computeengine_disk_CL join kind= inner (go
	Google Compute Engine is a cloud hosted service that	selectstar-collector 0	selectstar-collector 0	selectstar-collector 0	selectstar-collector 0	google_computeengine_disk_CL summarize avg(write
	delivers virtual machines running in Google's data centers and worldwide fiber network.	vm-selectstar-collector-again 0	vm-selectstar-collector-again 0	vm-selectstar-collector-again 0	vm-selectstar-collector-again 0	avg(cpuUtili
	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.					
		See all	See all	See all	See all	



VMware vSphere

Microsoft Operations Management Suite			口 🕹 🔅	Omega Data Plan: OMS bluemedoradev
බ Overview → VMware VCenter Environme	ent			
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ⓐ (4/26/18 11:27 - 5/3/18 11:27) ④				
0 vmware vcenter overview	HOST DISTRIBUTION	HOST CPU	HOST MEMORY	VIRTUAL MACHINE CPU
	7 700	CPU Utilization	Memory Utilization	CPU Utilization
VMware vCenter	7 702 Virtual Machines	ANG CPU 36.9 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AVG MEMORY 0.0 Apr 27 Apr 29 May 1 May 3	ANG CPU 7.87
Overview	HOST VIRTUAL MACHINES	HOST CPU UTILIZATION	HOST MEMORY UTILIZATION	VIRTUAL MACHINE CPU USAG
VMware vCenter is the centralized monitoring and resource	esxi-inf-ord-02.bluemedora.loc 124	esxi-inf-ord-07.bluemedora.loc 43.4	esxi-inf-ord-05.bluemedora.loc 0	jenkins-slave-1.bluemedora.loc 62.3
management software for VMware vSphere virtual infrastructure.	esxi-inf-ord-04.bluemedora.loc 122	esxi-inf-ord-05.bluemedora.loc 41.3	esxi-inf-ord-06.bluemedora.loc 0	ex-uno-collect-4-2.bluemedora 54.5
	esxi-inf-ord-01.bluemedora.loc 104	esxi-inf-ord-04.bluemedora.loc 41.2	esxi-inf-ord-04.bluemedora.loc 0	ora-rac-12-qa-1.bluemedora.lo 35.2
Key Performance Indicators	esxi-inf-ord-06.bluemedora.loc 95	esxi-inf-ord-06.bluemedora.loc 36.4	esxi-inf-ord-07.bluemedora.loc 0	pa80 34.9
In VMware vCenter, it is important to monitor runtime	esxi-inf-ord-07.bluemedora.loc 94	esxi-inf-ord-02.bluemedora.loc 31.4	esxi-inf-ord-03.bluemedora.loc 0	netscaler-ref-ha1 34
resources, such as CPU, memory, and disk.	esxi-inf-ord-05.bluemedora.loc 86	esxi-inf-ord-03.bluemedora.loc 27.8	esxi-inf-ord-01.bluemedora.loc 0	ex-uno-collect-1.bluemedora.l 32.4
When these resources are constrained on a virtual machine,	esxi-inf-ord-03.bluemedora.loc 85	esxi-inf-ord-01.bluemedora.loc 25.9	esxi-inf-ord-02.bluemedora.loc 0	netscaler-ref-ha2 31.9
this may indicate that the machine should be upgraded.				ora-rac-12-qa-2.bluemedora.lo 29.9
And likewise, if these resources are constrained on a host, this may indicate that either resources should be added or				ucspe-252 26.9 🦯
virtual machines should be consolidated.				oem-ref-oms.bluemedora.local 24
	See all	See all	See all	See all

Pivotal Cloud Foundry

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•Oo	PIVOTAL CLOUD FOUNDRY OVERVIEW	APPLICATION CPU USAGE		APPLICATION MEMORY USAGE		DOPPLER SERVER DROPPED MESS	SAGES	CLOUD CONTROLLER CPU	USAGE
	Pivotal Cloud Foundry More Info ©	CPU Usage AVERAGE CPU 0.092	1200 AM 6:00 AM	Memory Usage	0 PM 12:00 AM 6:00 AM	Dropped Messages Doppler Ser Doppler Ser Doppler Ser ecoo	Doppler Ser Doppler Ser PM 1200 AM 6:00 AM	CPU Usage	Cloud Contr Cloud
	Overview	APPLICATION	CPU USAGE	APPLICATION	MEMORY USAGE	DOPPLER SERVER	DROPPED MESSAGES	CLOUD CONTROLLER	CPU USAGI
	Pivotal Cloud Foundry is a cloud computing platform for	nozzle-2.1.0	1.2	autoscale-api	470.8M/	Doppler Server - 0	0	Cloud Controller - 0	0
	deploying and managing applications.	autoscale-api	0.2	pivotal-account	432.9M	Doppler Server - 1	0	Cloud Controller - 1	0
		pivotal-account	0.2	app-usage-worker	123.2M	Doppler Server - 2	0		
	Key Performance Indicators	autoscale	0.1	app-usage-scheduler	79M/				
	In Pivotal Cloud Foundry, it's important to monitor the application layer in conjunction with a variety of cloud	app-usage-worker	0	app-usage-server	76.2M				
	foundry services. These services would include the doppler server, the cloud controller, and the diego brain.	app-usage-scheduler app-usage-server	0	p-invitations-blue	10.9M				
	For applications, it's best to monitor the CPU, memory, and	p-invitations-blue		autoscale	10.9M				
	disk usage of each instance. This will help unconver potential provisioning problems.	nfsbroker	0	notifications-ui	5.2M				
		notifications-ui	0	nfsbroker	4M				
		See all		See all		See all		See all	

PostgreSQL

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Overview > PostgreSQL Environment							
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5/2/18 11:43 - 5/3/18 11:43							
POSTGRESQL OVERVIEW	POSTGRESQL SIZE		DATABASE OPERATIONS		QUERY EXECUTIONS		ADDITIONAL INFO
	Instance		0	0	Total Executions		Session Wait Time postgresql_session_CL summarize max(waiting_d) by postgress
PostgreSQL	8M 9 6M	10.33.100.15:5432	Row Inserts	Row Deletes	AVG PER HOUR g 40		Session by Application postgresql_session_CL summarize count() by application_name
<u>More info</u> ⊕	4M 2M				2.7k		Index Rates postgresql_index_CL project postgresql_index_name_s, postgre
	6:00 PM 12:00 AM	6:00 AM			6:00 PM	12:00 AM 6:00 AM	Instance Configuration postgresql_configuration_CL distinct postgresql_instance_nam
Overview	Database Size		DATABASE	TOTAL OPERATIONS	QUERY	AVG TIME (MS)	Replication Delay
PostgreSQL is an open source relational database		loadgen postgres tomcatdb	loadgen	7.2K	SELECT typinput=\$2::regpr	0.1	postgresql_replication_CL summarize avg(replication_delay_d)
management system.	8M 80 6M		postgres	4.4K	select exists(SELECT \$1 FR	0	Tablespace Size postgresql_tablespace_CL summarize avg(spc_size_d) by post
Key Performance Indicators	8 4M 27 2M		tomcatdb	2.3K	SELECT n.nspname = ANY(0 -	Function Calls postgresql_function_CL summarize avg(avg_time_d), sum(calls
In PostgreSQL, it's important to monitor table operations, as	6:00 PM 12:00 AM	6:00 AM			 SET extra_float_digits = 3 SET application_name = 'Bl 	0 -	postgresqi_tunction_cL summarize avg(avg_time_d), sum(calls
errant row inserts can quickly inflate the size of the database.					SHOW server_version_num	0	
Furthermore, it's also important to monitor the executions of a query. If a resource intesive query executes at a rapid pace,	Table Size					0	
this may hinder the responsiveness of the database.		tomcatdata					
	size (Bytes)						
	6:00 PM 12:00 AM	6:00 AM	See all		See all		

Kubernetes

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(1) 5/2/18 11:40 - 5/3/18 11:40 Image: State of the state o	CONTAINER DISTRIBUTION	CONTAINER CPU USAGE	CONTAINER MEMORY USAGE	POD RESTARTS
Kubernetes	235 42 Pods Containers	CPU Usage Avg cpu 0.27	Memory Usage AVG MEMORY 2.555 20 10 600 PM 1200 AM 600 AM	Restarts AVG RESTARTS 55.4 4k 3k 2k 1k 600 PM 1200 AM 600 A
Overview Kubernetes is an open-source system for managing containerized applications.	POD CONTAINER COUNT kube-dns-v19-95b84 3 kube-dns-v19-zfdg7 3 kube-flannel-ds-9n2hb 2	CONTAINER CPU USAGE heapster 2.5 heapster-nanny 2.3 monocular 0.1	CONTAINER MEMORY USAGE heapster 29.4 heapster-nanny 11.4 healthz 7.2	POD POD RESTAR etcd-server-kube-master 4.5K quoting-koala-monocular-api 2.7K plundering-ibex-monocular-ap 2.7K
Key Performance Indicators In Kubernetes, it is important to monitor the CPU and memory usage of the containers in a cluster. Resource contention in these areas will often affect the performance of an application. Likewise, it's also important to monitor how often Kubernetes pods are restarting containers. Frequent restarts are an early indicator of potential pod problems.	kube-tlannel-ds-972hb 2 heapster-v1.2.0-757f46b777-8 2 test-ingress-nginx-ingress-cont 2 kube-flannel-ds-srz64 2 kube-proxy-pdfh4 1 tiller-deploy-587df449fb-qr882 1 quoting-koala-mongodb-6d87 1	monocular 0.1 kubedns 0 cadvisor 0 etcd-container 0 install-cni 0 kube-apiserver 0 kube-flannel 0 kube-proxy 0	healthz 7.2 kubedns 6.9 monocular 1.7 cadvisor 0 install-cni 0 kube-apiserver 0 kube-flannel 0 kube-proxy 0	plundering-ibex-monocular-ap 2.7K plundering-ibex-monocular-ap 1.7K quoting-koala-monocular-api 1.7K kube-apiserver-kube-master 57 kube-flannel-ds-9n2hb 22 kube-scheduler-kube-master 10 kube-proxy-f4gfx 9 plundering-ibex-monocular-ui 0
	See all	See all	See all	See all

DataOps / PaaS / DevOps / On Prem Infrastructure



Couchbase

Microsoft Operations Management Suite			ූ 🤁 දරූි 😳 ? Data Plan: OMS	bluemedoradev
Overview Couchbase Environment				
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5/2/18 11:41 - 5/3/18 11:41				
COUCHBASE OVERVIEW	NODE MEMORY	BUCKET MEMORY	BUCKET CACHE	BUCKET OPERATIONS
	Memory Usage	Memory	Cache Miss Rate	Operations Per S
Couchbase	AVERAGE MEMORY 75.1 10.33.106.59	AVERAGE MEMORY 91M 600 600 PM 1200 AM 600 AM 600 AM	CACHE MISS RATE O.O	AVERAGE OPERATIONS 0.0
Overview	NODE MEMORY USAGE	BUCKET MEMORY	BUCKET CACHE MISS RATE	BUCKET
Couchbase is an open-source, distributed NoSQL document	cb50-rh7-1.bluemedora.localne 75.3	travel-sample 104M	beer-sample 0	beer-sample
database.	cb50-rh7-2.bluemedora.localne 74.9	beer-sample 90.3M	gamesim-sample 0	gamesim-sample
	10.33.106.59:8091 74.7	gamesim-sample 78.3M	travel-sample 0	travel-sample
Key Performance Indicators In Couchbase, it is important to monitor the memory of a cluster, as the vast majority of objects should be cached in				
memory for fast retrieval.				
Because of this, it is also important to monitor the cache miss ratio of a bucket. This number represents how often a bucket was unable to find a requested object in the cache and was forced to read from disk.				
Lastly, it's important to monitor the operations of a bucket, as this will indicate the general load of an environment.				
	See all	See all	See all	See all

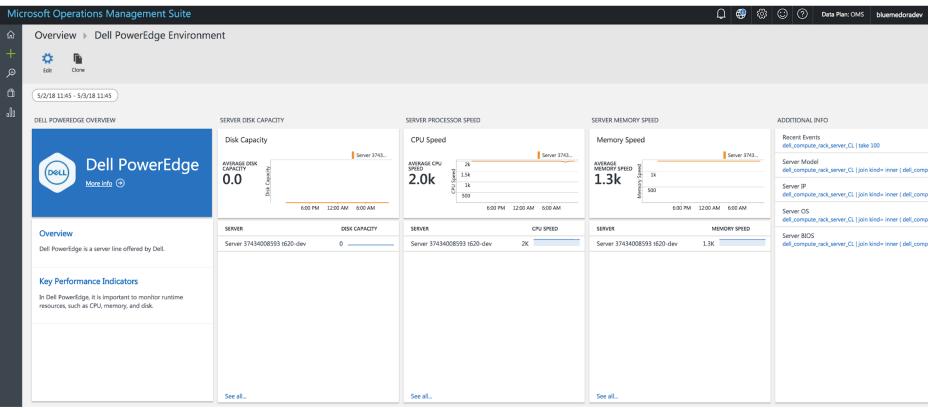
Redis

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ଜ	Overview > Redis Environment					
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ĉ	5/2/18 11:59 - 5/3/18 11:59					
. 00	REDIS OVERVIEW	SERVER REJECTIONS	SERVER MEMORY	SERVER EVICTED KEYS	SERVER EXPIRED KEYS	ADDITIONAL INFO
		Rejected Connections	Used Memory	Evicted Keys	Expired Keys	Recent Events redis_server_CL take 100
	🝙 Redis	AVG REJECTED CONNECTIO	AVG MEMORY 22M	EVICTED KEYS	EXPIRED KEYS	Cluster Status redis_cluster_CL join kind= inner (redis_cluster_CL se
	<u>More info</u> ⊙	0.0		0.0	U.U pairied	Cluster Size redis_cluster_CL join kind= inner (redis_cluster_CL st
		6:00 PM 12:00 AM 6:00 AM	6:00 PM 12:00 AM 6:00 AM	6:00 PM 12:00 AM 6:00 AM	6:00 PM 12:00 AM 6:00 AM	Database Status redis_database_CL join kind= inner (redis_database_C
	Overview	SERVER REJECTED CONNECTIONS redis-ref-cl1-1:6379 0	SERVER MEMORY redis-ref-cl1-1:6379 1.9M	SERVER EVICTED KEYS redis-ref-cl1-1:6379 0	SERVER EXPIRED KEYS redis-ref-cl1-1:6379 0	Cluster Sent Messages
	Redis is an open source, in-memory data structure store, used as a database, cache and message broker.	IEUSTEI-UT-LOJ/5 0	IE013-1E-01-10313	IE0131E1-01-1.0373 0	Tedis-tel-Cr-1.0073	redis_cluster_CL summarize avg(cluster_stats_message Cluster Received Messages redis_cluster_CL summarize avg(cluster_stats_message
	Key Performance Indicators					Cluster Instantaneous Ops redis_cluster_CL summarize avg(avg_instantaneous_o
	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.					
		See all	See all	See all	See all	

MySQL Database

Micr	osoft Operations Management Suite								Q 😌 🔅	Omega Data Plan: OMS bluemedoradev
ଳ + ୭	Overview > MySQL Environment									
ð Ju	(5/2/18 11:56 - 5/3/18 11:56) MYSQL OVERVIEW	INSTANCE CONNECTIONS		DATABASE WRITE RATE		DATABASE READ RATE		OUERY LATENCY		ADDITIONAL INFO
		Connections AVG CONNECTIO 9 30 31.1	mysql57-r	Write Rate	loadgen	Write Rate	loadgen	AVG LATENCY		Recent Events mysci_instance_CL take 100 Instance Configuration mysci_instance_CL join kind= inner (mysci_instance_ Database Unused Index Count mysci_database_CL join kind= inner (mysci_database
		6:00 PM	12:00 AM 6:00 AM		6:00 PM 12:00 AM 6:00 AM		6:00 PM 12:00 AM 6:00 AM		1 12:00 AM 6:00 AM	Instance Aborted Connections mysql_instance_CL join kind= inner (mysql_idatabase Instance Aborted Connections mysql_instance_CL summarize avg(aborted_connects_
	Overview MySQL is an open source relational database management	INSTANCE mysql57-ref-0.bluemedora.loca	CONNECTIONS	DATABASE loadgen	0	DATABASE loadgen	0	QUERY SELECT IF (`isnull` (`performan	LATENCY (MS) 6.4K	Database Size mysql_database_CL summarize avg(db_size_d) by mys
	system. Key Performance Indicators In MySQL, it is important to monitor the number of database connections. When the current number of active connections exceeds the maximum allowed connections, the database will							SELECT /*+ MAX_EXECUTION_T SELECT 'performance_schema' SELECT /*+ MAX_EXECUTION_T SELECT /*+ MAX_EXECUTION_T SELECT /*+ MAX_EXECUTION_T	56.5 53.6 46	Query Executions mysql_query_CL summarize avg(exec_count_rate_d) b
	begin to refuse further requests. Likewise, it's important to monitor the average latency of queries, as alow queries may affect the responsiveness of an application.							SELECT /*+ MAX_EXECUTION_T SELECT /*+ MAX_EXECUTION_T SELECT COUNT (*) AS 'unfinis SELECT 'extract_schema_from_f	33.3 31.5 24.4 14.4	
		See all		See all		See all		See all		

Dell Compute



Oracle Database

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+ @	🔅 🖺 Edit Clone									
â	5/2/18 11:55 - 5/3/18 11:55									
.Oo	ORACLE DATABASE OVERVIEW	INSTANCE SES	SIONS	INSTANCE CPU		INSTANCE I/O		QUERY EXECUTION TIME		ADDITIONAL INFO
		Sessions		CPU Usage		I/O Throughpu	ut	Execution Time		Recent Events oracle_database_instance_CL take 100
	Oracle Database		AVERAGE CPU USAGE		AVERAGE I/O		AVERAGE EXECUTION TIME 30k		Instance Status oracle_database_instance_CL join kind= inner (oracle	
	<u>More info</u> ⊖	3.57	0.15 0.1 0.05	13.9	5	3.53 [Dimanul_ O/]		13k 20k		Database Configuration oracle_database_database_CL join kind= inner (oracle
			6:00 PM 12:00 AM 6:00 AM		6:00 PM 12:00 AM 6:00 AM		6:00 PM 12:00 AM 6:00 AM		M 12:00 AM 6:00 AM	Instance Read Time oracle_database_instance_CL summarize avg(READ_TI
	Overview	DB12C	SESSIONS	DB12C	CPU USAGE	DB12C	I/O THROUGHPUT	QUERY begin dbms_feature_usage_inte	EXECUTION TIME (MS)	Instance Write Time
	Oracle Database is a relational database management system.		012	DOLLO	A.B. 10"	DUALC	9.9	DECLARE job BINARY_INTEGER	24.9K	oracle_database_instance_CL summarize avg(WRITE_1
								call dbms_stats.gather_databas	24.3K	
	Key Performance Indicators							BEGIN DBMS_FEATURE_JOB_SC	15.7K	
	In Oracle Database, it's important to monitor runtime resources, such as CPU, memory, and I/O, in order to							BEGIN sys.dbms_auto_report_in		
	discover potential bottlenecks.							SELECT XMLTYPE(DBMS_REPO	8K	
	Likewise, it's also important to monitor long running queries, as these will adversely affect the responsiveness of the							select * from V\$PARAMETER w insert into access\$(d_obj#,orde	7.2K	
	system.							WITH MONITOR DATA AS (SEL		
								select /*+ no_parallel(t) no_par	5.7K	
		See all		See all		See all		See all		

Cisco Nexus

Microsoft Operations Management Suite				Q 🔮 🔅	Omega Data Plan: OMS bluemedoradev
ᢙ Overview ► Cisco Nexus Environment					
+ Clone					
ث (<u>5/2/18 11-57 - 5/3/18 11-57</u>) ال					
CISCO NEXUS OVERVIEW PORT THROUG	GHPUT	PORT DISCARDS	PORT ERROR PACKETS	SWITCH CPU USAGE	ADDITIONAL INFO
Throughpu	ut	Discards	Error Packets	CPU Usage	Recent Events cisco_networking_port_CL take 100
Cisco Nexus	6	AVG DISCARDS	AVG ERROR PACKETS	AVG CPU USAGE	Switch Attached MAC cisco_networking_switch_CL join kind= inner (cisco_n
CISCO <u>More info</u> () 18M	2 200M	0.0		31.8	Switch Model cisco_networking_switch_CL join kind= inner (cisco_n
	6:00 PM 12:00 AM 6:00 AM	6:00 PM 12:00 AM 6:00 AM	6:00 PM 12:00 AM 6:00 AM	6:00 PM 12:00 AM 6:00 AM	Switch IP cisco_networking_switch_CL join kind= inner (cisco_n
Overview	THROUGHPUT	PORT DISCARDS	PORT ERROR PACKETS	SWITCH CPU USAGE	Port Bandwidth
Cisco Nexus is a series of network switches designed for the	1: FIC-A Port 6 275.6M	sw-nx5010-1: FAS 3240 iSCSI Tr 0	sw-nx5010-1: FAS 3240 iSCSI Tr 0	sw-nx5010-1 14.3	cisco_networking_port_CL join kind= inner (cisco_net
	1: Ethernet1/20 10.5M	sw-nx5010-1: Cohesity Data Ne 0	sw-nx5010-1: Cohesity Data Ne 0		Port Configuration cisco_networking_port_CL join kind= inner (cisco_net
	1: Uplink to 5524 10.4M	sw-nx5010-1: Ethernet1/10 0	sw-nx5010-1: Ethernet1/10 0		
	1: Cohesity Data Ne 696.6K	sw-nx5010-1: Ethernet1/15 0 sw-nx5010-1: Ethernet1/19 0	sw-nx5010-1: Ethernet1/15 0 sw-nx5010-1: Ethernet1/19 0		Ports Down cisco_networking_switch_CL summarize avg(port_stat
switch	1: FIC-B Port 6 11.5K	sw-nx5010-1: Ethernet1/20 0	sw-nx5010-1: Ethernet1/20 0		Ports in Error
When throughput exceeds the bandwidth of the switch, network packets will be dropped, resulting in lost data.		sw-nx5010-1; Ethernet1/2 0	sw-nx5010-1: Ethernet1/2 0		cisco_networking_switch_CL summarize avg(port_stat
network packets will be dropped, resoluting in lost data.	1: FAS 3240 ISCSI Tr 74.8	sw-nx5010-1: Ethernet1/5 0	sw-nx5010-1: Ethernet1/5 0		
sw-nx5010-:	1: Ethernet1/5 0	sw-nx5010-1: Ethernet1/8 0	sw-nx5010-1: Ethernet1/8 0		
sw-nx5010-2	1: Ethernet1/9 0	sw-nx5010-1: Ethernet1/9 0	sw-nx5010-1: Ethernet1/9 0		
See all		See all	See all	See all	

NetApp Storage

Micr	Alicrosoft Operations Management Suite 🗘 😵 🕸 🗇 Data Plan: OMS bluemedoradev									
命 十	+									
ھر D	(5/2/18 1158 - 5/3/18 1158)									
۵lo	NETAPP FAS OVERVIEW	AGGREGATE CAPACITY		AGGREGATE LATENCY		VOLUME USED CAPACITY		VOLUME LATENCY		ADDITIONAL INFO
		Used Capacity		Latency		Used Capacity		Latency		Recent Events netapp_apiservices_aggregate_CL take 100
	NetApp FAS			AVERAGE ALTENCY 7.54		AVERAGE 100 USED 80 CAPACITY 66		AVERAGE 200		Aggregate Reads netapp_apiservices_aggregate_CL summarize avg(ave
		20		2		38.0				Aggregate Writes netapp_apiservices_aggregate_CL summarize avg(ave
			12:00 AM 6:00 AM		12:00 AM 6:00 AM		12:00 AM 6:00 AM		6:00 PM 12:00 AM 6:00 AM	Aggregate Utilization netapp_apiservices_aggregate_CL summarize avg(util
	Overview	AGGREGATE aggr_1	USED CAPACITY	AGGREGATE aggr_2	9.6	VOLUME fas3240c_svm_iscsi_lun_epops	USED CAPACITY 97	VOLUME netapp_iscsi_perf_vol	57.7	Volume Reads netapp_apiservices_volume_CL summarize avg(read_s
	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.	aggr0_fas3240c_02_0	95	aggr_1	8.2	netapp_iscsi_perf_vol	97	ucs_iscsi_vol	12.5	Volume Writes
		aggr0	95	aggr0	5.6	ucs_iscsi_vol	91	vol_nfs_vmware_thick	8.7	netapp_apiservices_volume_CL summarize avg(write_
	Key Performance Indicators	aggr_2	93	aggr0_fas3240c_02_0	5.4	kraken6_lun_vol	88	vol0	1.6	Volume Available Size netapp_apiservices_volume_CL summarize avg(size_a
	In NetApp FAS, it's important to monitor the capacity of the					ucs_nfs_vol	87	ucs_nfs_vol	0.3	
	aggregates and volumes. When capacity is reached, the storage system will be unable to operate as expected.					vol_nfs_vmware_thin	82	DJ_Test	0.1	
	Likewise, it's also important to monitor the latency of reads					vol_temp_nfs_jon	73	fas3240csvmiscsi_root	0.1	
	and writes. Highly latent operations will cause applications to appear unresponsive.					vcsa_test_vvol1	64	vol_nfs_vmware_cap	0.1 ~~~~	
						vol_nfs_qos	47	fas3240cuscsiscsi_root	0	
		See all		See all		See all		See all		