



INOVASYS

Think**BIG**

(Log Analytics)



What does Azure Monitor Collect?



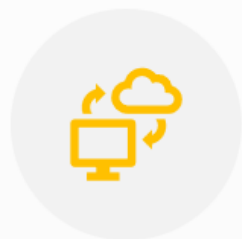
AZURE TENANT:

OPERATION OF
TENANT-LEVEL
AZURE SERVICES



AZURE SUBSCRIPTION:

OPERATION,
MANAGEMENT, AND
HEALTH OF AZURE



AZURE RESOURCE:

OPERATION OF AN
AZURE RESOURCE



APPLICATION:

PERFORMANCE AND
FUNCTIONALITY OF
CODE



GUEST OS:

CLOUD/ON-PREMISES OS
ON WHICH YOUR
APPLICATION IS
RUNNING



UNIFIED EXPERIENCE

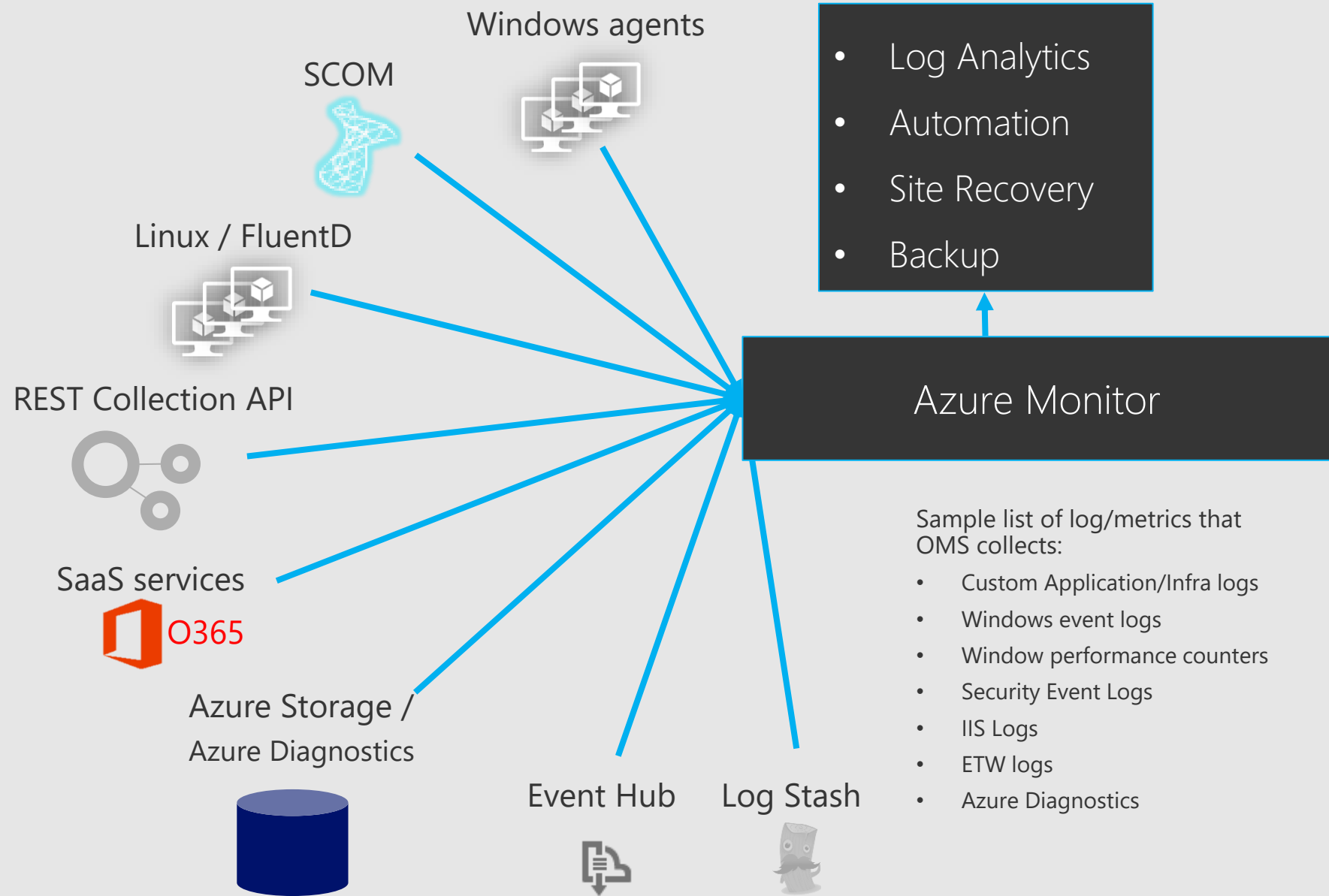
COLLECT AND INDEX DATA

SEARCH AND INVESTIGATE

CORRELATE AND ANALYZE

VISUALIZE AND REPORT

MONITOR AND ALERT



Azure Monitor

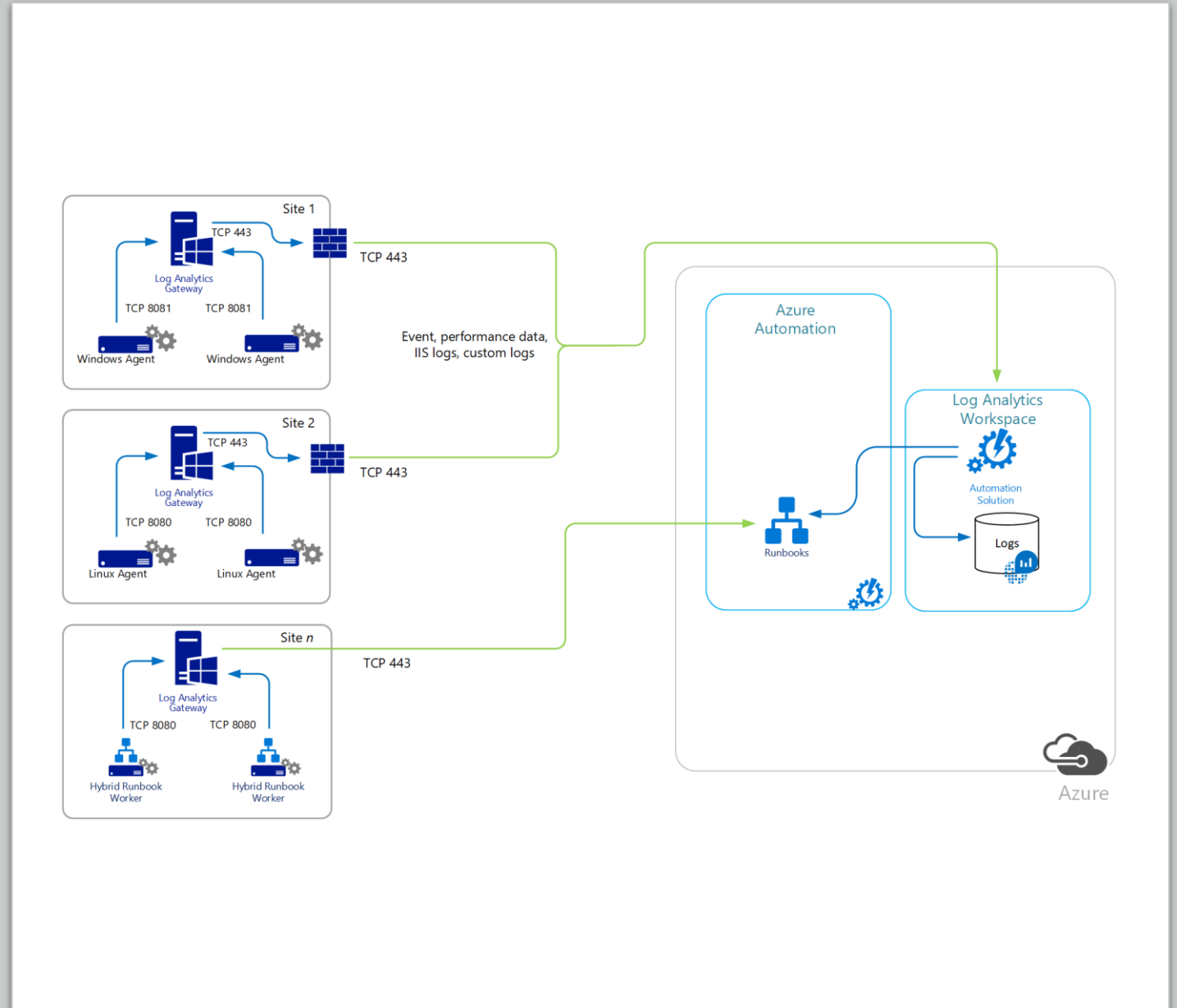
Logs data security

How log data is collected, processed, and secured by Azure Monitor.

Azure Monitor meets the following Certifications and attestations:

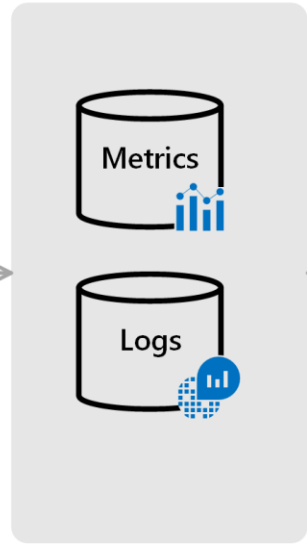
- ISO/IEC 27001
- ISO/IEC 27018:2014
- ISO 22301
- Payment Card Industry (PCI Compliant) Data Security Standard (PCI DSS) by the PCI Security Standards Council.
- Service Organization Controls (SOC) 1 Type 1 and SOC 2 Type 1 compliant
- HIPAA and HITECH
- Windows Common Engineering Criteria
- Microsoft Trustworthy Computing

Source # <https://docs.microsoft.com/en-us/azure/azure-monitor/logs/data-security#certifications-and-attestations>



Azure Monitor

- Application
- Operating System
- Azure Resources
- Azure Subscription
- Azure Tenant
- Custom Sources



Insights

- Application
- Container
- VM
- Monitoring Solutions

Visualize

- Dashboards
- Views
- Power BI
- Workbooks

Analyze

- Metric Analytics
- Log Analytics

Respond

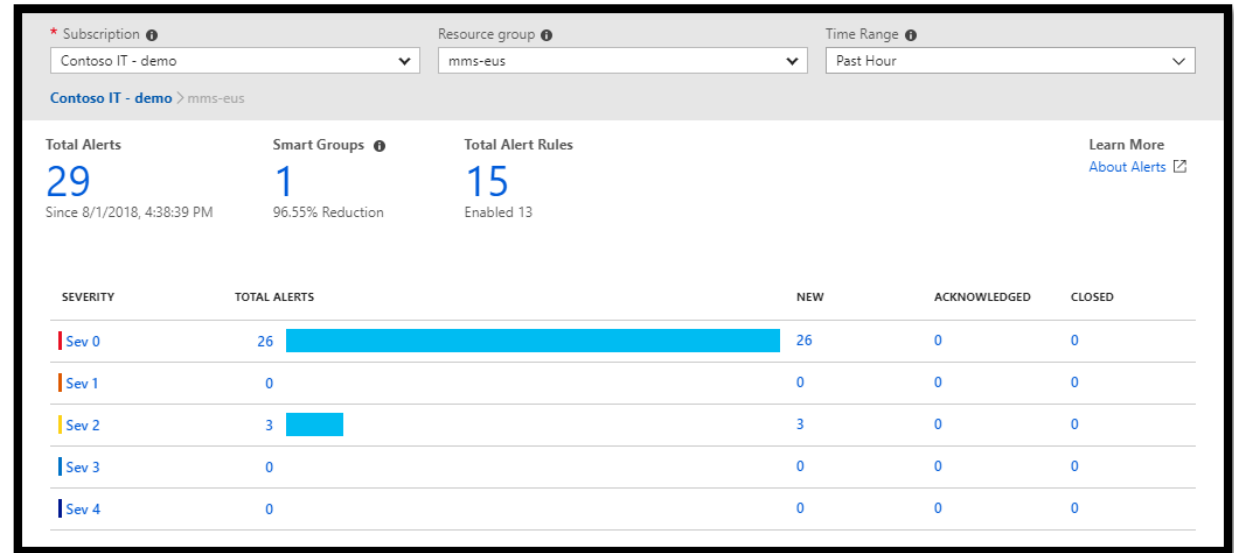
- Alerts
- Autoscale

Integrate

- Logic Apps
- Export APIs

Alert

- **Metrics rules** – Real-time alerting on numeric values
- **Log rules** – Complex logic across data from multiple sources
- Email/SMS/Push/Voice





Metrics Explorer



Show legacy language converter

Event | where EventLevelName == "Error" | project TimeGenerated, Computer, EventLevelName, Source, EventID

4K Results List Table Advanced Analytics 00:00:00.339

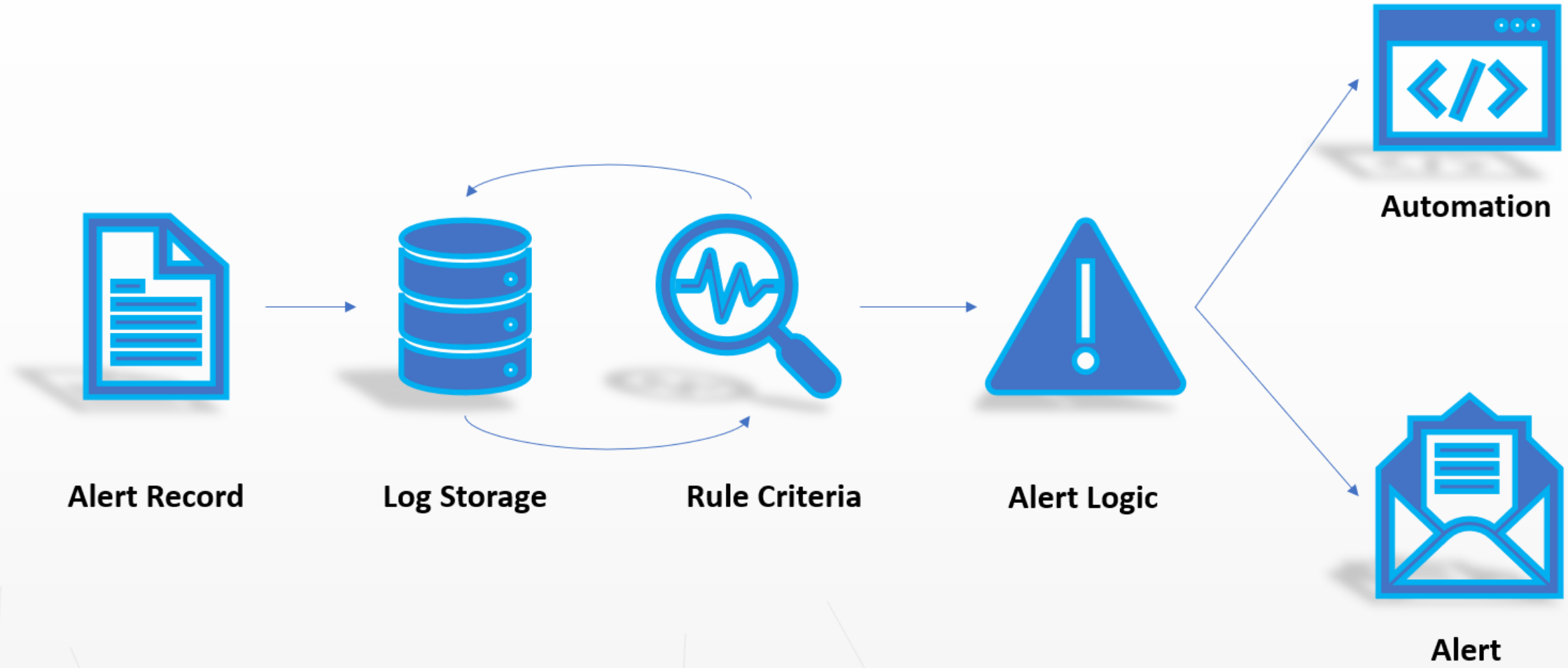
Drag a column header and drop it here to group by that column

TimeGenerated	Computer	EventLevelName	Source	EventID
7/17/2017 11:39:02 AM	srv01.contoso.com	Error	Microsoft-Windows-L...	5973
7/17/2017 11:39:12 AM	srv01.contoso.com	Error	HealthService	4502
7/17/2017 11:39:12 AM	srv02.contoso.com	Error	HealthService	4502
7/17/2017 11:39:12 AM	srv01.contoso.com	Error	HealthService	4502
7/17/2017 11:39:12 AM	srv03.contoso.com	Error	HealthService	4502
7/17/2017 11:39:26 AM	srv03.contoso.com	Error	NPMO Agent	100
7/17/2017 11:39:26 AM	srv01.contoso.com	Error	NPMO Agent	100

Log Analytics

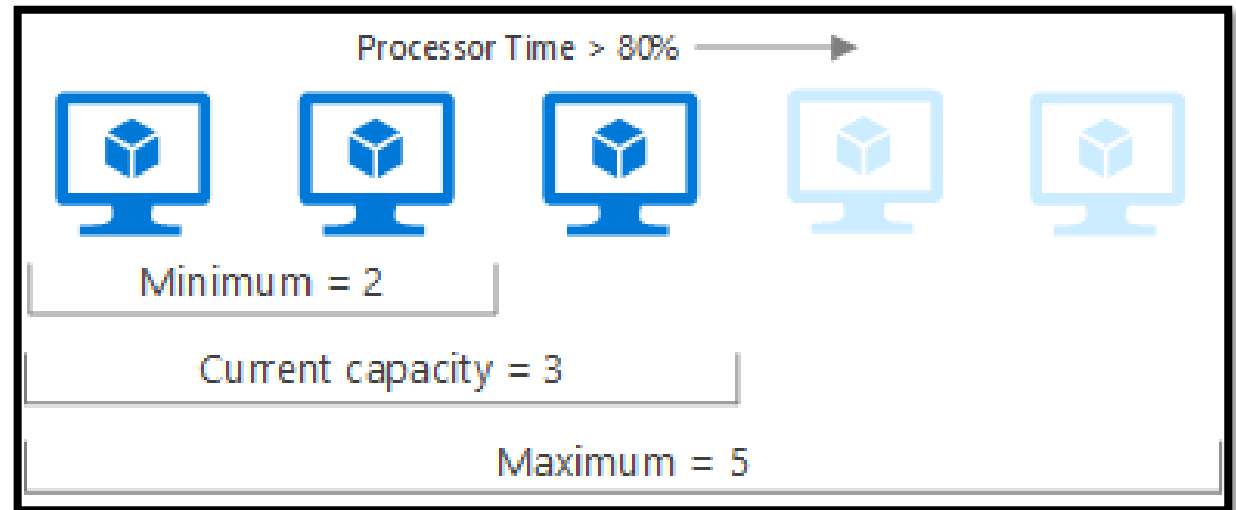


Metrics vs. Logs



Automation

- Azure Functions
- Logic Apps
- Webhooks
- ITSM
- Automation Runbook





Log Search

My Dashboard

AD Assessment

4 Servers Assessed on Fri Aug 26 2016

- 0 High Priority Recommendations
- 1 Low Priority Recommendations
- 107 Passed checks

Antimalware Assessment

6 COMPUTERS NEED ATTENTION

- Active Threats: 0
- Remediated Threats: 0
- Insufficient Protection: 6

Azure Automation auto-automation

- 2 Runbooks
- 0 Jobs in the last 7 days

Backup

- 1 Servers backed up
- 1.8TB Backup data

5 NEW

Solutions Gallery

0.4GB Usage

Change Tracking

37 Software changes in the last 24 hours (exclusions applied)

0 Windows service changes in the last 24 hours (exclusions applied)

Date	Changes
8/23	25
8/24	30
8/25	25
8/26	20
8/27	25
8/28	30
8/29	20

Network Performance Monitor (Preview)

Solution requires additional configuration

Security and Audit

- 8 Active Computers in the last 24 hours
- 71 Accounts Authenticated in the last 24 hours

SQL Assessment

- 1 Servers Assessed on Mon Aug 29 2016
- 5 High Priority Recommendations
- 16 Low Priority Recommendations
- 83 Passed checks

Settings

System Update Assessment

25% NEEDS ATTENTION (WINDOWS)

- Computers missing Critical Updates: 0
- Computers missing Security Updates: 2
- Computers missing other updates: 4
- Windows Computers up-to-date: 2

Latest News

Satya Vel @satya_vel [Follow](#)

ICYMI, OMS June Updates and Improvements [blogs.technet.microsoft.com/m...](https://blogs.technet.microsoft.com/msoms/) #MSOMS #Azure

8:15 AM - 18 Jul 2016

Settings

- 100% 3 of 3 items completed
- 9 Data sources connected

AD Replication Status

- 0 Critical Replication Errors
- 0 Total Replication Errors

Office 365

Performing Assessment

We're still getting things ready. At most it should take 4 hours to start getting data into the system. Please check back in a couple of hours and your data will be available.



Log Search

My Dashboard

Solutions Gallery

2.7GB

Servers and Usage

AD Assessment

4 Servers Assessed

3 High Priority Recommendations

6 Low Priority Recommendations

72 Passed Checks

Alert Management

0 Active critical alerts in the last 24 hours

4 Active warning alerts in the last 24 hours

Time	Critical Alerts	Warning Alerts
1pm	0	0
5pm	0	1
9pm	0	0
1am	0	0
5am	0	0
9am	0	3

Malware Assessment

35% NEEDS ATTENTION

1 Servers with Active Threats

38 Servers with Inadequate Protection

Automation

9 Runbooks

15 Jobs in the last 7 days

Capacity Planning

23.6 % Available Cores

62.3 % Available Memory

42.5 % Available Storage

Change Tracking

20 Software changes in the last 24 hours

6 Windows service changes in the last 24 hours (excludes Status)

Time	Software Changes	Windows Service Changes
4/26	5	12
4/28	15	6
4/30	35	10
5/2	25	8

Backup

ITProBackup

13 Servers backed up

3TB Backup data

Security and Audit

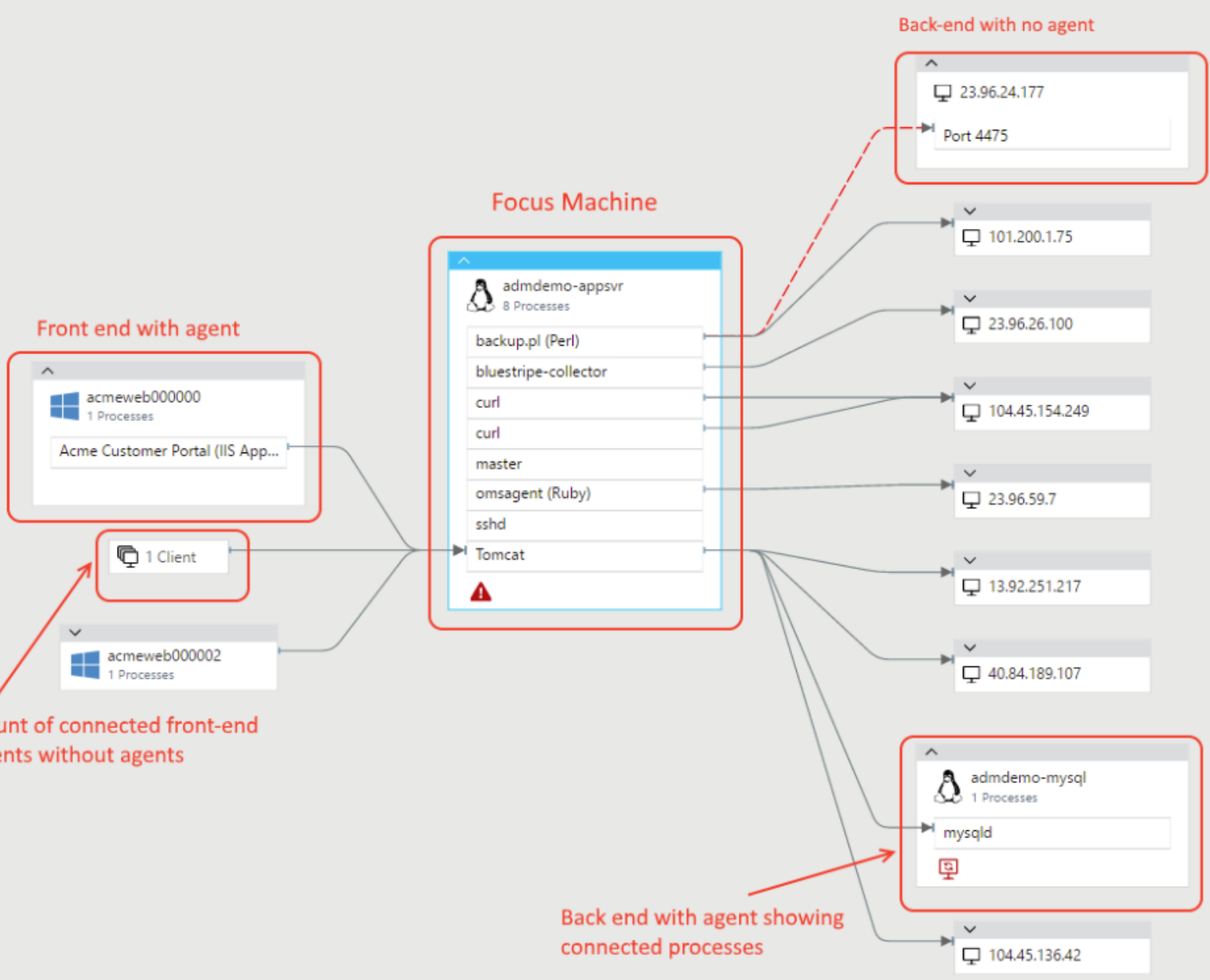
95 Active Computers in the last 24 hours

64 Accounts Authenticated in the last 24 hours

Filter machines...

OS	MACHINE
Windows	acmeweb000000
Windows	acmeweb000002
Linux	admdemo-appsvr
Linux	admdemo-docker
Linux	admdemo-mysql
Linux	admdemo-rhel1
Windows	admdemo-win1
Windows	admdemosf000000
Windows	admdemosf000001
Windows	admdemosf000002
Windows	admdemosf000003
Windows	admdemosf000004
Windows	bluestripeload1
Windows	bluestripeload2
Windows	bsdemoaad
Windows	bsdemocons1
Windows	bsdemosms1
Windows	bsdemosc
Windows	bsdemosql1

Machine List



Count of connected front-end clients without agents

Back end with agent showing connected processes

Properties

Fully Qualified Domain Name
admdemo-appsvr.(none)

Operating System
Linux 3.10.0-327.28.3.el7.x86_64,
CentOS Linux release 7.2.1511
(Core)

View More Properties...

Machine Dependencies

- 3 Connected Clients
- 9 Connected Servers

TCP Connections

- 2 Inbound Connections
- 10 Outbound Connections
- 1 Failed Connections

Alerts

- 1 Critical
- 0 Warning
- 0 Informational

Change Tracking

Notable Security Issues

Updates

CPU Utilization

Memory Utilization

Network Statistics



Overview ▸ Security And Audit



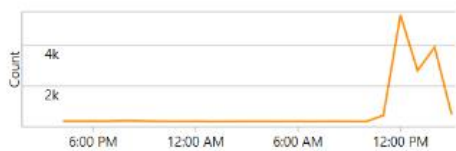
Settings

Last 24 hours

Check out the new and advanced security experience in Azure Security Center. [Try Security Center now.](#)

SECURITY DOMAINS

Security records over time



Antimalware Assessment
Computers with Antimalware Assessment

3

Update Assessment
Computers missing updates

11

Network Security
Distinct IP addresses

88

Identity and Access
Accounts attempted to log on

4

Computers
Computers with security events

11

Threat Intelligence
Potential malicious traffic

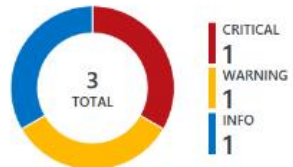
99

Baseline Assessment

Azure Security Center

NOTABLE ISSUES

Active issue types



NAME	COUNT	SEVERITY
Computers missing security updates	2	!
Computers missing critical updates	2	!
Accounts failed to log on	1	i

DETECTIONS (PREVIEW)



NAME	COUNT	SEVERITY
No threats were detected based on the security data that is being collected. See here instructions on how to improve the detection coverage.		

THREAT INTELLIGENCE

Servers with outbound potential malicious traffic

0

Detected threat types






Overview ▶ Update Management

ASSESSED COMPUTERS

Windows Computers




3 COMPUTERS

- NEED CRITICAL UPDATES: 2
- NEED SECURITY UPDATES: 0
- NEED OTHER UPDATES: 1
- UP TO DATE: 0

COMPUTER	CRITICAL	SECURITY	OTHER
monitorwinvm	1	1	3
monitorwinvm2	1	1	2
mediaproxy	0	0	2

Linux Computers




8 COMPUTERS

- NEED CRITICAL UPDATES: 2
- NEED SECURITY UPDATES: 1
- NEED OTHER UPDATES: 5
- UP TO DATE: 0

COMPUTER	CRITICAL	SECURITY	OTHER
monitorlinuxvm2	6	21	303
giuliocentos	4	12	240
monitorlinuxvm1	0	3	135
aks-agentpool-12019904-0	0	0	57
aks-agentpool-12019904-1	0	0	57
aks-agentpool-12019904-2	0	0	57
aks-agentpool-50015563-0	0	0	25
aks-agentpool-50015563-1	0	0	25

MISSING UPDATES

Windows Updates




7 UPDATES

- CRITICAL UPDATES: 1
- SECURITY UPDATES: 1
- OTHER UPDATES: 1
- UP TO DATE: 5

CLASSIFICATION	NUMBER OF UPDATES
Critical Updates	1
Security Updates	1
Definition Updates	3
Update Rollups	1
Updates	1

UPDATE DEPLOYMENT

Linux Updates



472 UPDATES

- CRITICAL UPDATES: 6
- SECURITY UPDATES: 24
- OTHER UPDATES: 442

CLASSIFICATION	NUMBER OF UPDATES
Critical Updates	6
Security Updates	24
Others	442

MANAGE UPI

SQL Server Monitoring

Overview > SQL Health Check > Focus Area

AVAILABILITY AND BUSINESS CONTINUITY

84%

2 LOW PRIORITY RECOMMENDATIONS
10 PASSED CHECKS

Keep your services available and your business profitable by ensuring the resiliency of your infrastructure and by having the right level of business protection in the event of a disaster.

See all...

PRIORITIZED RECOMMENDATIONS

Reduce the maximum Kerberos access token size. 4.2

One or more of your devices have maximum Kerberos access token sizes set to more than 48000 bytes. This can cause a range of reliability issues including authentication failures and connection timeouts.

Review the configuration of the computer that is reporting that no Domain Controller is available in the Event log (ID 5719). 1.8

The importance of this error message ranges from unimportant to critical. If the message is intermittent on a single machine and network logon resolves it will not cause you or the user any major problems. However if no domain controller is available on the network users may not be able to logon or they may logon with cached credentials and policies may not be applied. This may affect users' access to network services.

RECOMMENDATION

One or more of your devices have maximum Kerberos access token sizes set to more than 48000 bytes. This can cause a range of reliability issues including authentication failures and connection timeouts.

SUGGESTED ACTIONS

All machines that are involved in Kerberos authentication – both domain controllers and domain members – specify a maximum Kerberos access token size. The maximum token size in bytes is specified by the registry key `HKEYMSYSTEM\CurrentControlSet\Control\Lsa\MaxTokenSize`.

Microsoft currently recommends that this value is set to no more than 48000 bytes. Before you change the value, you should establish why the maximum token size was changed from the default value and perform any required housekeeping tasks.

Task 1: Determine whether users are likely to have large access tokens

You can estimate token sizes using the following formula:

$$t = 2^{(1200 + 40d + 4s)}$$

Where:

- t is the estimated token size in bytes.
- d is the sum of the number of domain local groups to which the user belongs, the number of universal groups outside the user's account domain to which the user belongs, and the number of groups in the user's security ID (SID) history.
- s is the sum of the security global groups to which the user belongs and the number of universal groups within the user account domain to which the user belongs.

In practice, there are several widely available scripts that can help you to calculate token sizes. See the [Learn More](#) section for more information.

Task 2: Reduce access token sizes

If you have determined that access tokens are likely to exceed recommended values, you can perform various Active Directory housekeeping activities to reduce the size of access tokens:

- Reduce the number of groups to which each user belongs.
- Reduce the number of nested groups.

SQL Health Check

1 Servers Assessed in last 21 days

1 High Priority Recommendations

3 Low Priority Recommendations

33 Passed checks

Last 31 days

All Technologies | All Environments

ASSESSMENT QUALITY

100%

0 DISCOVERY FAILURES
0 OTHER PREREQUISITE FAILURES
0 ASSESSMENT QUALITY INDEX
100%

PRIORITIZED RECOMMENDATIONS

All prerequisites successfully met.

WEIGHT

SECURITY AND COMPLIANCE

88%

3 HIGH PRIORITY RECOMMENDATIONS
48 LOW PRIORITY RECOMMENDATIONS
353 PASSED CHECKS

PRIORITIZED RECOMMENDATIONS

PRIORITIZED RECOMMENDATIONS	WEIGHT
Enable and Enforce the Setting "Turn off Autoplay" via...	5.6
Mitigations missing for speculative execution side-ch...	4.6
Configure the Setting "Network security: LAN Manag...	3.8
Enable and Enforce "Microsoft network server: Digi...	3.4
Configure Authorized User List for Setting "Restore fi...	2.8
Define and Enforce Setting "Back up files and directo...	2.8
Ensure only essential users are added to the SQL Ser...	2.4
Create SQL Server logins based on Windows Active ...	2.3
Create a SQL Server Audit to log configuration chang...	2.3
Create a SQL Server Audit to log creation, modificati...	2.3

See logs...

AVAILABILITY AND BUSINESS CONTINUITY

100%

2 HIGH PRIORITY RECOMMENDATIONS
4 LOW PRIORITY RECOMMENDATIONS
669 PASSED CHECKS

PRIORITIZED RECOMMENDATIONS

PRIORITIZED RECOMMENDATIONS	WEIGHT
Schedule a full database backup and ensure that it h...	5.2
Change the recovery model to FULL or BULK_LOGGED.	3.6
Review the non-default Agent XPs option setting on ...	1.2
Place data files and transaction log files on separate ...	1.1
Investigate occurrences of event ID 7026 in the Micr...	1.0
Investigate occurrences of event ID 7031 in the Micr...	1.0

See logs...

PERFORMANCE AND SCALABILITY

97%

2 HIGH PRIORITY RECOMMENDATIONS
9 LOW PRIORITY RECOMMENDATIONS
331 PASSED CHECKS

PRIORITIZED RECOMMENDATIONS

PRIORITIZED RECOMMENDATIONS	WEIGHT
Modify auto-growth settings to use a fixed size grow...	4.2
Move database files from the system disk to another ...	3.8
Consider creating supporting indexes for tables with ...	2.3
Review the SQL Server instance configuration settl...	1.5
Review the 'system managed' page file setting on th...	1.4
Separate tempdb and user database files by placin...	1.1
Upgrade the affected database(s) compatibility level ...	1.1
Untrusted constraints have been identified, check if y...	0.9
Review SQL Server Top Waits	0.6
Investigate Trace Flag 4199 is not enabled to control ...	0.6

See logs...

UPGRADE, MIGRATION AND DEPLOYMENT

98%

2 LOW PRIORITY RECOMMENDATIONS
76 PASSED CHECKS

PRIORITIZED RECOMMENDATIONS

PRIORITIZED RECOMMENDATIONS	WEIGHT
Install the latest service pack or hotfix for the SQL Se...	1.9
Consider enable server network protocol Named Pip...	0.0

See logs...

OPERATIONS AND MONITORING

90%

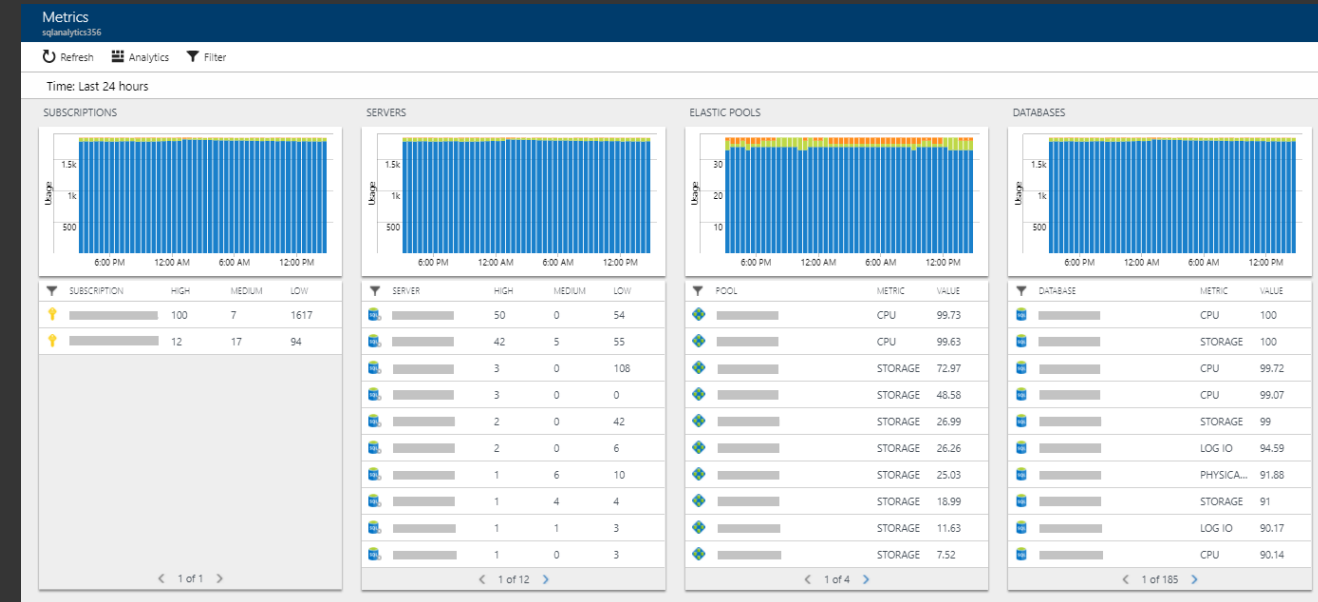
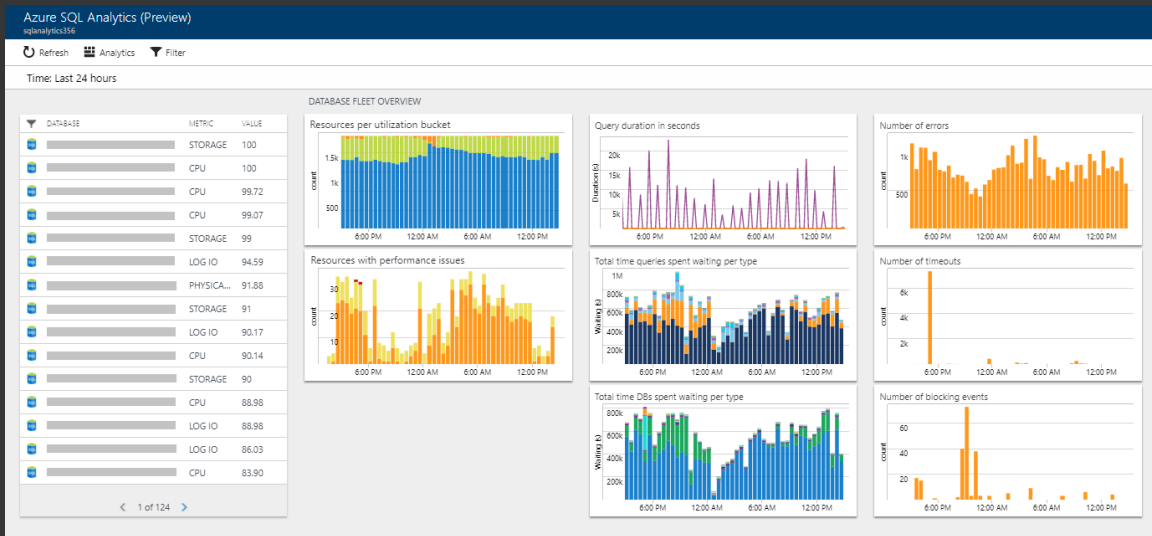
1 HIGH PRIORITY RECOMMENDATIONS
16 LOW PRIORITY RECOMMENDATIONS
145 PASSED CHECKS

PRIORITIZED RECOMMENDATIONS

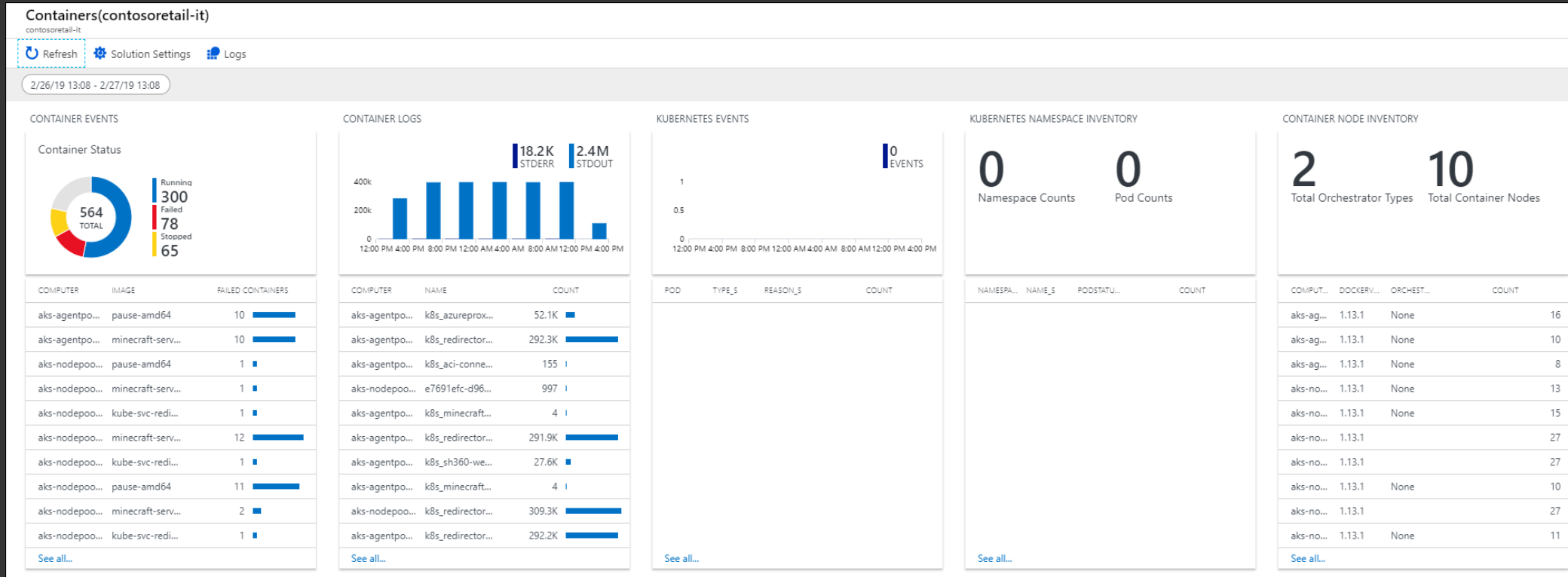
PRIORITIZED RECOMMENDATIONS	WEIGHT
Create a schedule to run DBCC CHECKDB regularly.	6.1
Review the SQL Server Error Log retention setting.	2.2
Configure Auditing for Account Logon: Credential Va...	0.4
Configure Auditing for Account Management: User A...	0.4
Configure Auditing for Detailed Tracking: Audit PNP ...	0.4
Configure Auditing for Logon-Logoff: Audit Account ...	0.4
Configure Auditing for Logon-Logoff: Audit Group M...	0.4
Configure Auditing for Logon-Logoff: Audit Other L.o...	0.4
Configure Auditing for Object Access: Audit Detailed...	0.4
Configure Auditing for Object Access: Audit File Share	0.4

See logs...

Azure SQL Monitoring



Dockers and Containers



- Overview
- Activity log
- Alerts
- Metrics
- Logs**
- Service Health
- Workbooks
- Insights
- Applications
- Virtual Machines
- Storage accounts
- Containers
- Networks (preview)
- Azure Cosmos DB
- Key Vaults
- Azure Cache for Redis
- Insights Hub
- Settings
- Diagnostics settings
- Data Collection Rules
- Autoscale

New Query 1 x +

Feedback | Queries | Query explorer | Settings | Help

Always show Queries | [Community Git repo](#) | [Documentation](#)

Queries

Category

★ Favorites

- All Queries
- API Management s...**
- App Services
- Application Gatew...
- Application Insights
- Automation account
- Azure Active Direct...
- Azure AD Domain ...
- Azure Cosmos DB
- Azure Database for...
- Azure Database for...
- Azure Database for...
- Azure Database for...
- Azure Monitor aut...
- Azure Spring Cloud
- Batch Accounts
- CDN Profiles

API MANAGEMENT SERVICES

Number of requests
Count the total number of calls across all APIs in the last 24 hours.

Example query

Logs of the last 100 calls
Get the logs of the most recent 100 calls in the last 24 hours.

Example query

Number of calls by APIs
View the number of calls per API in the last 24 hours.

Example query

Bandwidth consumed
Total bandwidth consumed in the last 24 hours.

Example query

Request sizes
Statistics of request sizes in the last 24 hours.

Example query

Response sizes
Statistics of response sizes in the last 24 hours.

Example query

IT Service Management Connector

- The IT Service Management Connector integrates your **existing IT Service Management (ITSM) products** and services with OMS Log Analytics.
- The solution has **bidirectional integration** with ITSM products/services:
 - it provides the OMS users an option to create incidents, alerts, or events in ITSM solution.
 - it imports data such as incidents, and change requests from ITSM solution into OMS Log Analytics.
- Supported ITSM products:
 - **System Center Service Manager (SCSM)**
 - **ServiceNow**
 - **Provance**
 - **Cherwell**

servicenow

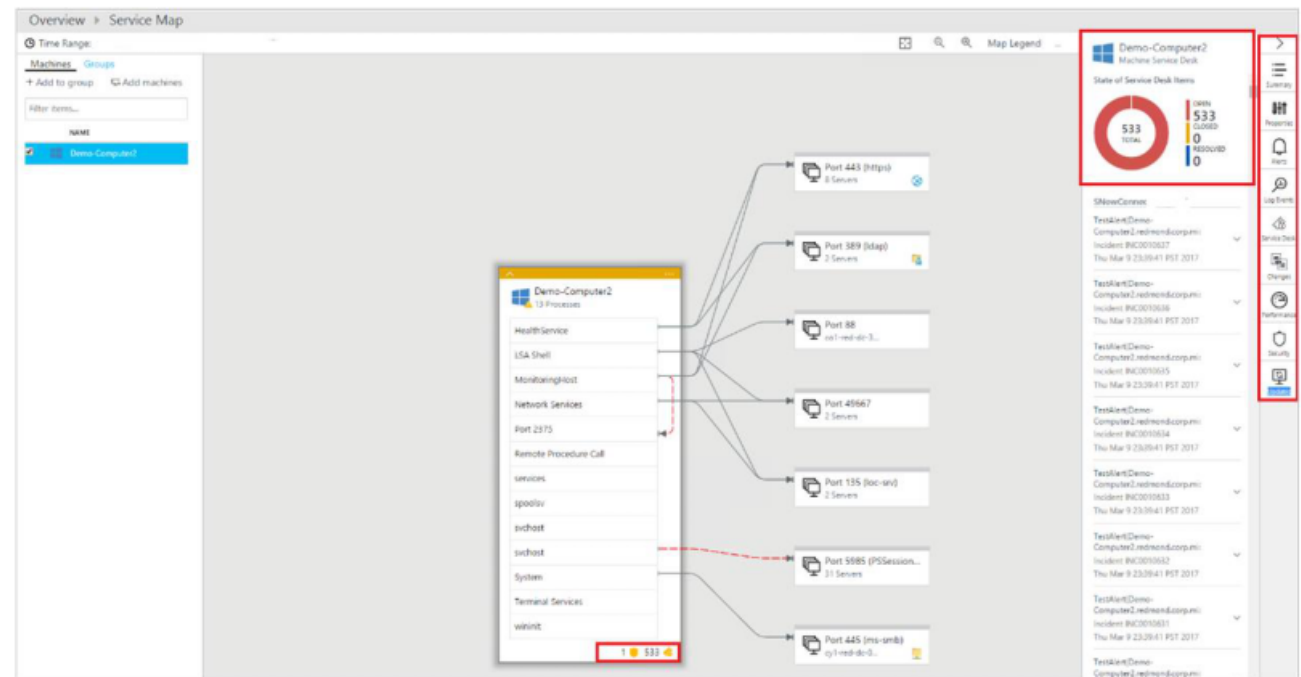
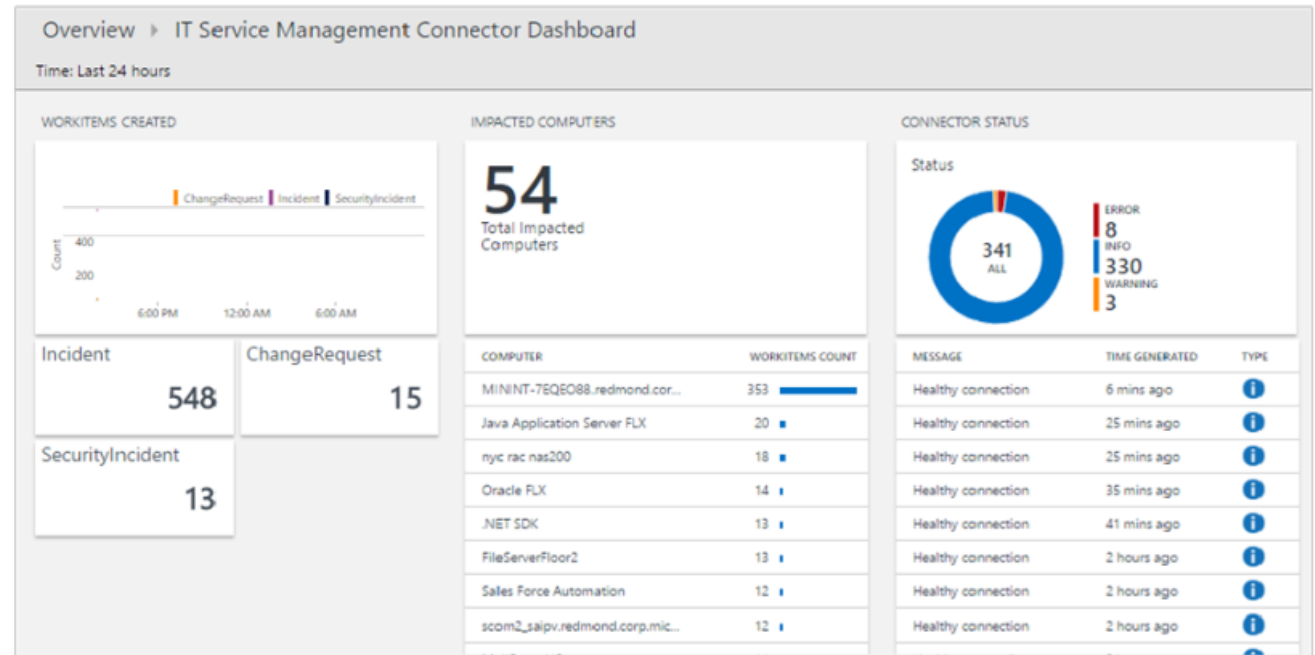
PROVANCE

Cherwell

Microsoft®
System Center
Service Manager

The logo for Microsoft System Center Service Manager, featuring a stylized blue wireframe globe icon above the text.

Integrate ITSM with other OMS solutions



MySQL Server Monitoring



INFORMATION

MySQL Server Solution
Azure Portal Resources

MySQL Database Information

Provides information about Databases inside your MySQL Server

MySQL Server Performance Metrics

Provides out of the box metrics for Key Cache, Query Cache, Table Cache, InnoDB Engine, Query Metrics

MySQL Connection Information

Provides insight on Connections % Used and Aborted Connections

MySQL Log Information

TOP MYSQL QUERIES

Distinct MySQL Queries

29

MYSQL QUERY	COUNT
show tables	540
insert into employee values(50...	270
insert into employee values(40...	270
insert into employee values(30...	270
insert into employee values(20...	270
insert into employee values(10...	270
create table employee (id INT...	270
SELECT COUNT(*) FROM empl...	270
SELECT COUNT(*) AS CNT, DEP...	270
SELECT * FROM employee WH...	270

[See all...](#)

MYSQL DATABASES

MySQL Database Size
MEGABYTES

712.6K TOTAL MB

- linux-u14-64:127.0.0.1:3306:mysql 703.3K
- linux-u14-64:127.0.0.1:3306:inform... 9.2K
- linux-u14-64:127.0.0.1:3306:perfor... 0

MYSQL DATABASE	SIZE IN MB
linux-u14-64:127.0.0.1:3306:my...	703.3K
linux-u14-64:127.0.0.1:3306:inf...	9.2K
linux-u14-64:127.0.0.1:3306:per...	0

[See all...](#)

MYSQL SERVER METRICS

MySQL Performance Metrics

TYPE	COUNT
Key Cache Hit Pct	98
Full Table Scan Pct	95
InnoDB Buffer Pool Hit Pct	69
Key Cache Write Pct	27
Table Cache Hit Pct	22
Key Cache Use Pct	18
Table Cache Use Pct	10
InnoDB Buffer Pool Use Pct	2
Connection Use Pct	1
Aborted Connection Pct	0

[See all...](#)

VMware Monitoring



INFORMATION

VMware Monitoring
[More information](#) →

Monitor VMware ESXi Hosts

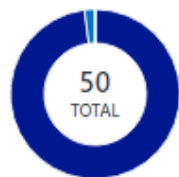
This solution will collect log data from ESXi Host to provide monitoring, log analysis, and trending. For more use cases on how to use VMware Log Monitoring, please refer to the [blog](#).

Information on Supported Versions

This solution is only for ESXi Hosts. Here are the information on the supported ESXi Host versions.

ESXI HOST STATUS

Failure Status Counts

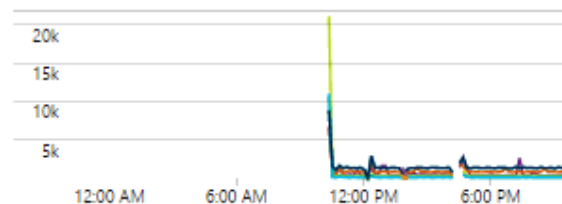


vmsyslopd.remote.failure
49
 scsi.device.io.latency.high
1

ESXI HOST	FAILURE EVENT COUNT
VMware-ESXiHost-Redwest1	10
VMware-ESXiHost-IDC2	6
VMware-ESXiHost-Tokyo2	6
VMware-ESXiHost-IDC1	5
VMware-ESXiHost-Redmond1	5
VMware-ESXiHost-Redmond2	5
VMware-ESXiHost-Tokyo1	5
localhost.corp.microsoft.com	2
DPM-B3L30205-55.corp.micros...	1
ESXik.corp.microsoft.com	1
See all...	

ESXI HOST PER EVENT COUNT

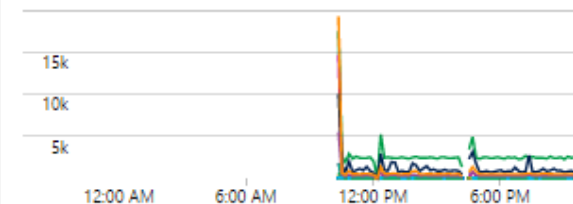
Top Hosts by Event Counts



ESXI HOST	EVENT COUNTS
VMware-ESXiHost-IDC1	99.4K
VMware-ESXiHost-Redmond1	99.3K
VMware-ESXiHost-Tokyo1	64.3K
VMware-ESXiHost-Tokyo2	45.9K
VMware-ESXiHost-Redwest1	39.2K
VMware-ESXiHost-Redmond2	19.8K
VMware-ESXiHost-IDC2	19.3K
ESXik.corp.microsoft.com	1.3K
dpm-b3l40205-50.corp.micros...	1.2K
dpm-b3l40205-49.corp.micros...	1.1K
See all...	

BREAKDOWN PER EVENT TYPE

Top Event Counts



EVENT TYPE	EVENT COUNTS
vmkernel	182.1K
Vpxa	80.9K
Hostd	55.1K
hostd-probe	31.4K
Rhttpproxy	25.1K
crond[33255]	3.2K
smartd	1.2K
crond[33283]	1.1K
vmkwarning	1K
crond[33431]	557
See all...	

VIRTU...

	11
	5.5
	0
	1
ESXI...	
VM...	
ESXI...	
See...	

Oracle Performance



OpsLogix Oracle Performance

[More info](#) ↗

ORACLE CONNECTION STATUS

3
CONNECTION SUCCESSFULL

0
CONNECTION NOT SUCCESSFULL

TABLESPACE USAGE

2
WARNING (70% ~ 95%)

0
CRITICAL (>95%)

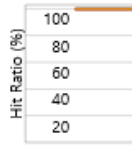
DATADICTONARY HIT RATIO

0
WARNING (95% ~ 70%)

0
CRITICAL (<70%)

DATADICTONAR

% Hit Ratio



Master your Oracle environment

Overview











Analyze your Oracle environments real-time using Microsoft OMS and the OpsLogix Oracle solution

Monitor your Oracle Instance Usages




Over 60 performance metrics are constantly collected and monitored by the OpsLogix OMS Oracle solution. If the configured thresholds are hit you will be notified.

COMPUTER	CONNECTIONSUCESSFULL_S	CHECKS
oralinux06.contoso.com	TRUE	685
oralinux07.contoso.com	TRUE	296
172.16.53.10	TRUE	280

[See all...](#)

COMPU...	OBJECT...	INSTAN...	USAGE %
Oralin...	DB11...	DEMO	93.8 
Oralin...	DB11...	SYSTEM	79.5 
Oralin...	DB11...	DEMO	12.5 
Oralin...	DB11...	SYSAUX	4.3 
server...	cdbpr...	SYSAUX	3.5 
Oralin...	DB11...	TBS_02	2.5 
Oralin...	DB11...	TBS_03	2.5 
Oralin...	DB11...	TBS_04	2.5 
Oralin...	DB11...	TBS_05	2.5 
Oralin...	DB11...	TBS_06	2.5 

[See all...](#)

COMPUTER	INSTANCENA...	HIT RATIO %
server47	cdbproda	99.9 
Oralinux06...	DB11G06	99.8 
Oralinux07...	DB11G07	99.6 

[See all...](#)

INSTANCE
server47
Oralinux06.c...
Oralinux07.c...

[See all...](#)

Oracle Auditing



OpsLogix Oracle Auditing

[More info](#) ↪

Master your Oracle environment

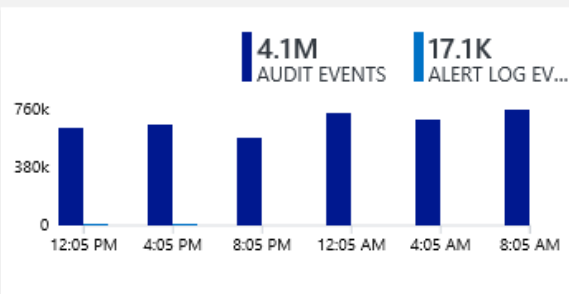
Overview

Analyze your Oracle environments real-time using Microsoft OMS and the OpsLogix Oracle monitoring solution

Oracle Auditing

Get grip on what's happening within your Oracle databases. This Solution will collect activity so you can see any time any action. This is ideal for ISO or SOX compliancy auditing.

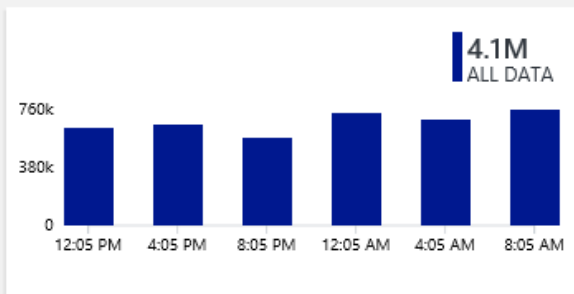
TOTAL AUDIT EVENTS DISTRIBUTION BY ORACLE INSTANCES



ORACLE INSTA...	INSTANCE_NAM...	COUNT
Oralinux07.c...	DB11G07	3M
Oralinux06.c...	DB11G06	1M
server47	cdbproda	2.2K

[See all...](#)

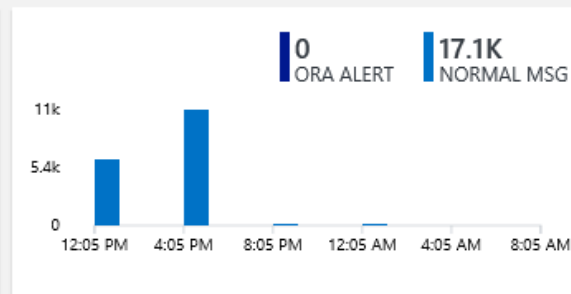
TOTAL ORACLE AUDIT EVENTS BY ORACLE INSTANCE



INSTANCE	INSTANCE_NAM...	COUNT
Oralinux07.c...	DB11G07	3M
Oralinux06.c...	DB11G06	1M
server47	cdbproda	2.2K

[See all...](#)

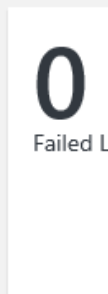
TOTAL ORACLE ALERT LOG EVENTS BY ALERT ID



ORA NU...	INSTANC...	ORAMSG...	COUNT
server47	cdbproda	0	16.9K
Oralinu...	DB11G07	0	149
Oralinu...	DB11G06	0	81

[See all...](#)

TOP FAILED



USER N...
server47

[See all...](#)

Nutanix Monitoring



COMTRADE SOFTWARE



Nutanix Enterprise Clouds

[More info](#) ↗

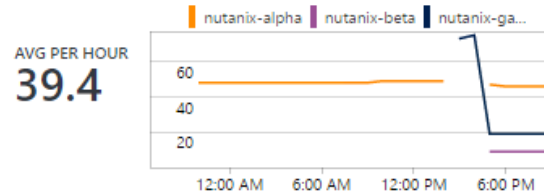
Overview

Nutanix Enterprise Clouds solution from Comtrade Software provides you monitoring and log analytics for Nutanix Enterprise Clouds



RUNNING VMS PER CLUSTER

Total Running VMS over time
VM STATUS IS ON

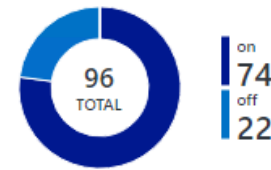


CLUSTER NAME	# VMS
nutanix-alpha	46
nutanix-gamma	19
nutanix-beta	9

[See all...](#)

TOTAL VMS PER CLUSTER

Total VMS
ALL CLUSTERS

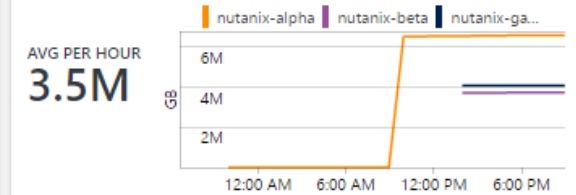


CLUSTER NAME	# VMS
nutanix-alpha	57
nutanix-gamma	27
nutanix-beta	12

[See all...](#)

MEMORY SIZE AND USAGE

Memory usage over time



CLUSTER NAME	TOTAL ME...
nutanix-alpha	7.2
nutanix-gamma	6.1
nutanix-beta	4.3

[See all...](#)

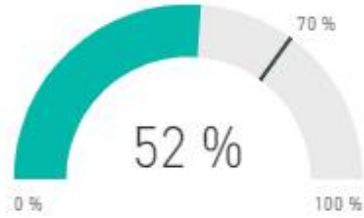
IT Operations

Resource usage and availability

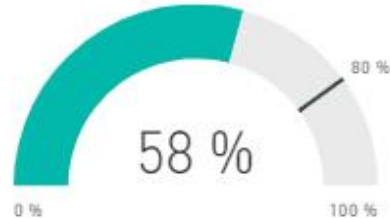
Server

- DBServer-1
- DBServer-2
- DBServer-3
- DBServer-4
- WebApp-1
- WebApp-2
- WebApp-3
- WebApp-4
- WebApp-5

CPU utilization



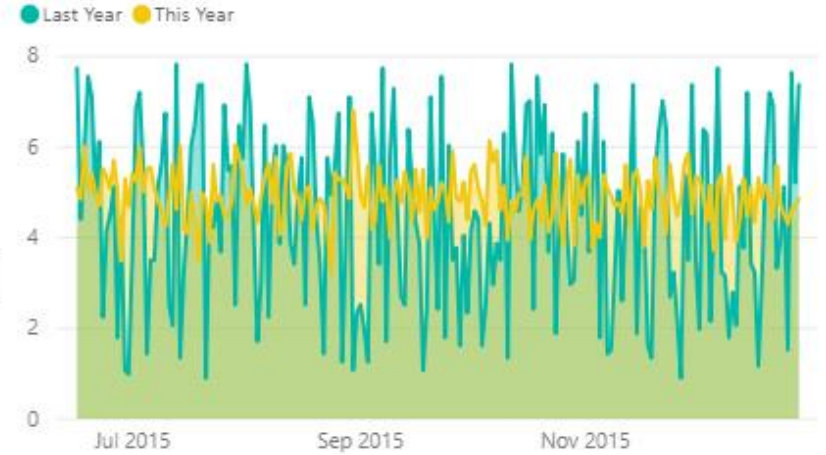
Memory utilization



Disk utilization



CPU utilization by year



Total DBs

275

Database Backups

271

Backups Run

3

Backups Failed

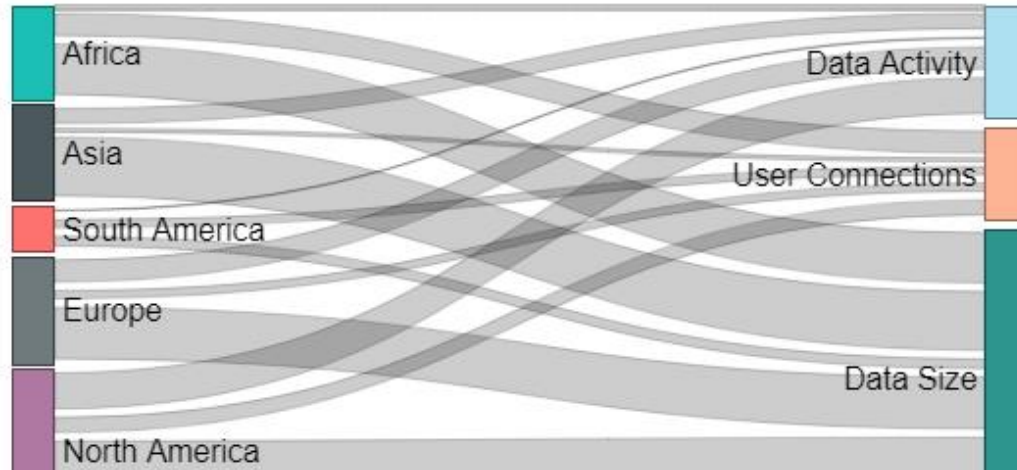
346782

Backup Size (GB)

Usage Type

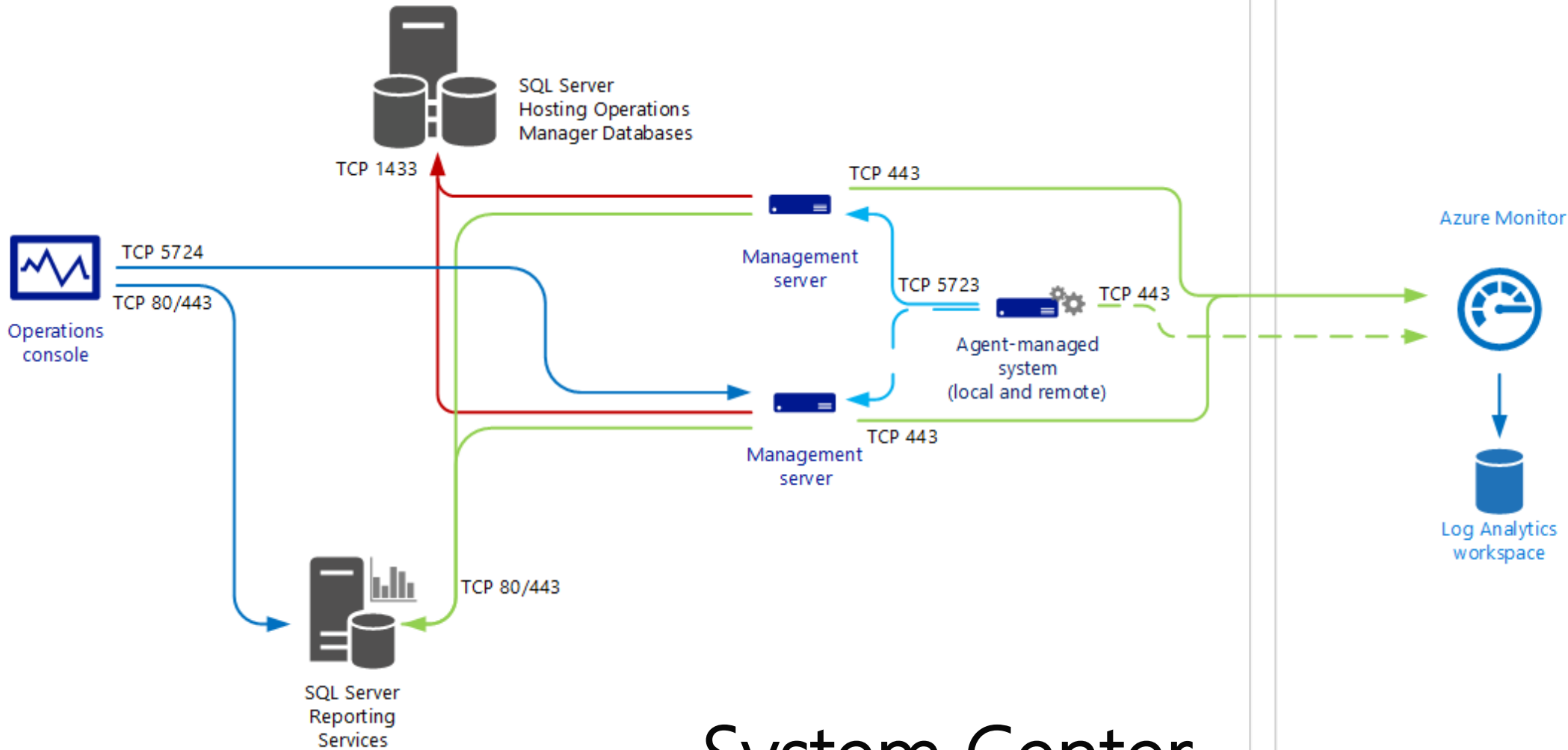
- Data Activity
- Data Size
- User Conne...

Usage by type and region



Network usage by location





System Center Integration



Local



Azure

System Center Assessment

System Center Operations Manager Health Check (Preview)

1
Servers Assessed
in last 21 days

2
High Priority Recommendations

26
Low Priority Recommendations

152
Passed checks

AVAILABILITY AND BUSINESS CONTINUITY	PERFORMANCE AND SCALABILITY	UPGRADE, MIGRATION AND DEPLOYMENT	OPERATIONS AND MONITORING																																																			
<p>94% LOW PRIORITY RECOMMENDATIO... 4 PASSED CHECKS 57</p>	<p>80% HIGH PRIORITY RECOMMENDATI... 1 LOW PRIORITY RECOMMENDATIO... 4 PASSED CHECKS 20</p>	<p>80% HIGH PRIORITY RECOMMENDATI... 1 LOW PRIORITY RECOMMENDATIO... 12 PASSED CHECKS 52</p>	<p>79% LOW PRIORITY RECOMMEND... 6 PASSED CHECKS 22</p>																																																			
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Azure Monitor Pricing

Log Data Ingestion

Log Analytics and **Application Insights** charge for data they ingest. There are two ways to pay for ingesting data: Pay-As-You-Go and Commitment Tiers. The Pay-As-You-Go pricing offers flexible pay-for-what-you-use pricing by simply charging for the volume of data ingested. With Commitment Tiers you are billed a fixed predictable fee starting at a 100 GB per day level. Data ingested above the Commitment Tier is billed at the same per-GB price as the current tier. Commitment Tiers provide you a discount on data ingestion based on your selected commitment tier. Commitment tiers have a 31-day commitment period ([learn more](#)). For Application Insights users, your resource must be [workspace-based](#) to leverage the Commitment Tiers. Some data types, including [Azure Activity Logs](#), are [free from data ingestion charges](#).

Pricing Tier	Price	Effective Per GB Price ¹	Savings Over Pay-As-You-Go
Pay-As-You-Go	\$2.76 per GB (5 GB per billing account per month included)	\$2.76 per GB	N/A
100 GB per day	\$235.20 per day	\$2.36 per GB	15%
200 GB per day	\$441.60 per day	\$2.21 per GB	20%
300 GB per day	\$648 per day	\$2.16 per GB	22%
400 GB per day	\$844.80 per day	\$2.12 per GB	23%
500 GB per day	\$1,038 per day	\$2.08 per GB	25%
1,000 GB per day	\$2,040 per day	\$2.04 per GB	26%
2,000 GB per day	\$3,984 per day	\$2.00 per GB	28%

Log Data Retention

Data ingested into your **Log Analytics** workspace can be retained at no charge for up to first 31 days (or 90 days if Azure Sentinel is enabled on the workspace). Data ingested into either classic or workspace-based **Application Insights** is retained for 90 days without any charge.

Data retained beyond these no-charge periods will be charged for each GB of data retained for a month (pro-rated daily).

Feature	Days of Included Retention	Price
Data Retention	31 days (or 90 days if Sentinel is enabled), and 90 days for Application Insights data	\$0.12 per GB per month

Log Data Export

[Log Analytics Data Export](#) offers continuous streaming export of logs from your Log Analytics workspace to destinations such as Azure Storage and Event Hub. You are billed per GB of data exported from the Log Analytics Workspace. Exporting data via Diagnostic Settings is covered below in the Platform Logs section of this page.

Billing for the Log Analytics Data Export feature is not yet enabled. Advance notice will be provided before billing starts.

Feature	Price
Log Analytics Data Export	\$0.12 per GB ¹

¹The size of data exported by Log Analytics Data Export is the number of bytes in the exported JSON formatted data. 1 GB = 10⁹ bytes.

Web Tests

Application Insights has [URL Ping tests](#) and [Multi-step web tests](#) which enable you to verify the availability of your application.

Feature	Price
---------	-------

Notifications

Notifications are sent based on when an Alert rule triggers. You are billed based on the type and number of notifications you choose to send.

Feature	Free units included	Price
ITSM connector create or update event	1,000 events per month	\$5/1,000 events
Emails	1,000 emails per month	\$2/100,000 emails
Push notification (to Azure Mobile App)	1,000 notifications per month	\$2/100,000 notifications
Secure web hooks	1 secure web hook	\$6/1,000,000 secure web hooks
Web hooks	100,000 web hooks per month	\$0.60/1,000,000 web hooks

We Look Forward to Partnering With You...

A Cloud 9, Mohamed Naguib Axis,
North Investors Area, New Cairo, Egypt.

P +2 02 25 390 467

E info@inovasys.co