Microsoft

At-scale VMs Compete Analysis

Jazzy Loh, Azure X

Disclaimer: The compete analysis focused on information architecture and data visualization design.

Executive summary

Datadog, Dynatrace, GCP, Splunk and New Relic (5) were shortlisted to run compete analysis due to their wide offering of capabilities to display full observability at scale. Among the five, GCP fares the worst in terms of offerings. Other competitors worth mentioning for its unique offerings are SolarWinds (*Recommendations per VM host or cluster*), IBM (*3D infrastructure map).*

Key findings:

1. **Single pane of glass.** With exception of Google Cloud Platform (GCP), the other four integrate both infrastructure and application monitoring for faster troubleshooting.
2. **Sort/filters functions.** Display at the top of the dashboard
3. **Data visualization.** Heat map is generally the preferred because it displays a high-density overview which lets users quickly identify which VMs at risk.
4. **Headliners.** Show key health metrics of VMs/Hosts/Instances to get a clear picture of the system. Selecting any metric will filter to display relevant info.
5. **Metric charts.** Data sorting to manipulate data to get insights. Offers linked entities, traces and logs to gain greater visual transparency into data.

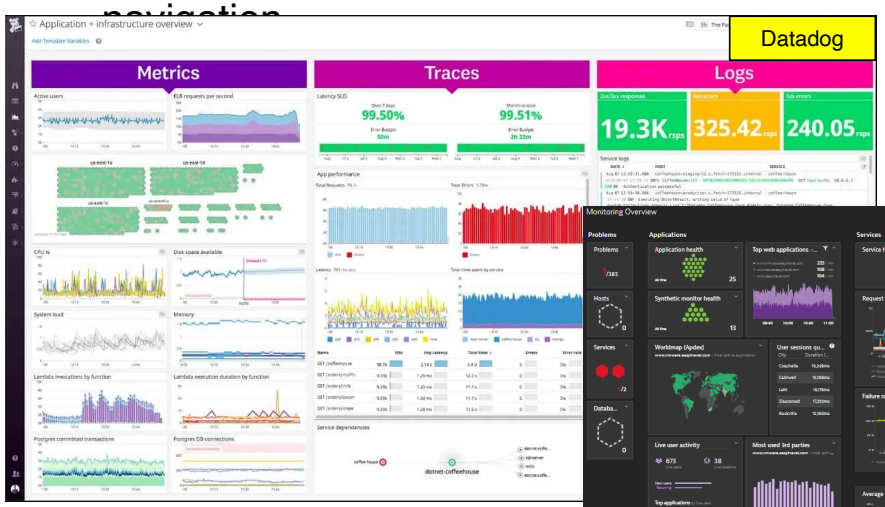
Compete matrix

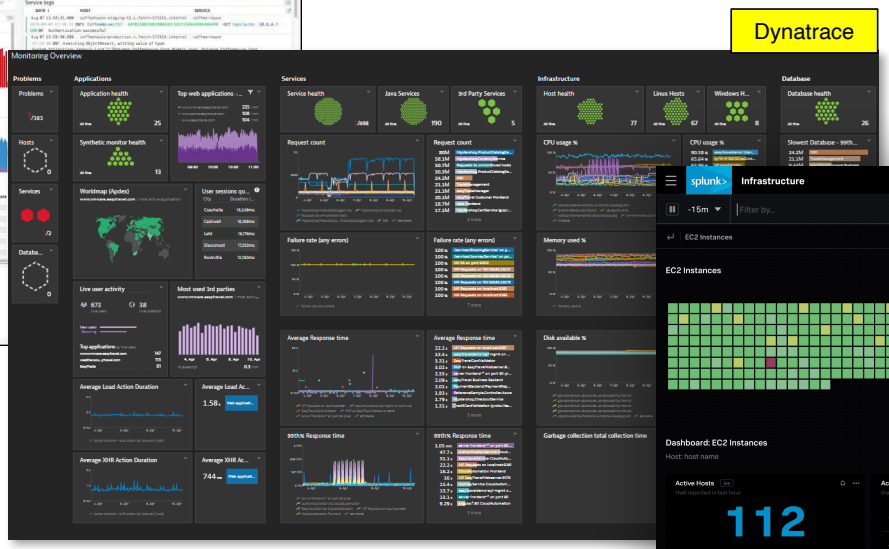
Y: Yes **N**: No

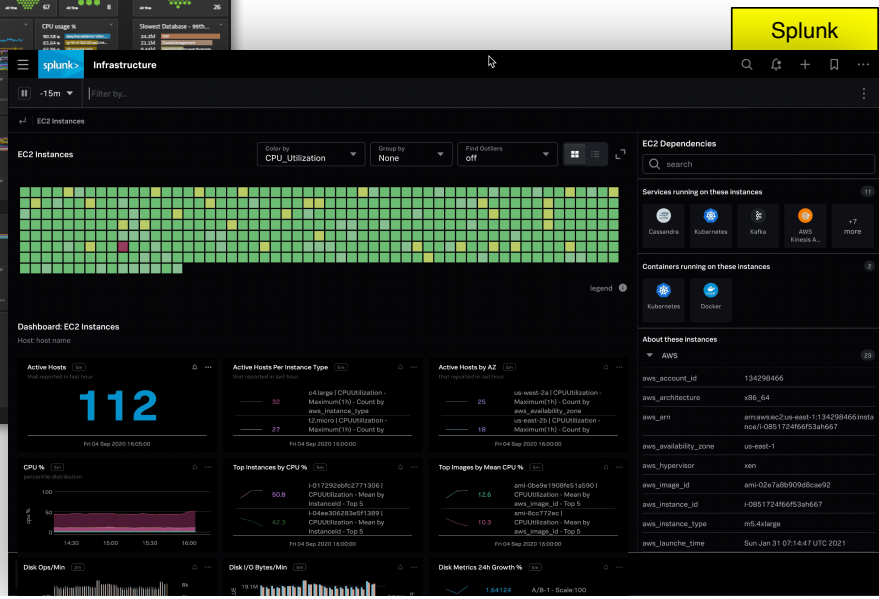
Competitors	VMs / Hosts / Instances status	Alerts	CPU	Memory	Network	Storage / Disk/ IO	Differentiators
Datadog	Y - VMs running, VMs in scale sets, Azure VM monitors, Failed VMs, Avg running VMs by region	Y – Warning, No data	Y	Y	Y	Y	Datadog Agent: The Datadog Agent is software that runs on your hosts. It collects events and metrics from hosts and sends them to Datadog, where you can analyze your monitoring and performance data.
Dynatrace	Y - Host health, Linux Hosts, Windows Hosts	Y - Critical	Y	Y	Y	Y	Dynatrace brand alerts as problem notification. A single problem that contains all incidents that share the same root cause.
Google Cloud Monitoring	Y – Virtual machines	Y	Y	Y	N	Y	Google Cloud Monitoring GPU performance on Linux/Windows VMs - To help with better utilization of resources, you can track the GPU usage rates of your virtual machine (VM) instances. When you know the GPU usage rates, you can perform tasks such as setting up managed instance groups that can be used to auto-scale resources.
Splunk	Y - Active Hosts, Active hosts per Instance Type, Active hosts by AZ	Y - Critical, Major, Minor, Warning, Info	Y	Y	Y	Y	Splunk has a dependencies section to indicate what services or containers are running on these instances.
New Relic	Y - Active Hosts, Active hosts per Instance Type, Active hosts by AZ	Y - Known as Events	Y	Y	Y	Y	New Relic offers the most extensive options to visualize data namely List (Table), Navigate and Lookout e.g. List, Navigate, Lookout. Demo
Honorable mentions							
Solarwinds	Y	Y	Y	Y	Y	Y	SolarWinds Virtualizaton Recommendations resource - Lists all active and predictive recommendations listed per VM host or cluster. Select the recommendations link to troubleshoot all recommendations.
IBM	Y	Y	Y	Y	Y	Y	Use 3D data-viz for at scale monitoring. Allow users to switch modes e.g. Container, Pod, Node and Host. Focuses mainly on AKS.

1. Single pane of glass

While Datadog, Dynatrace, Splunk and New Relic offers full stack and/or integrated infrastructure + application monitoring, the difference lies in how they design the information architecture and ease of navigation



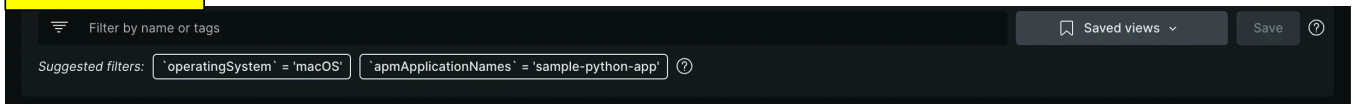




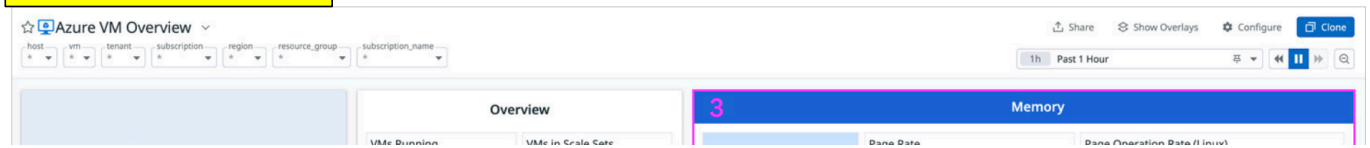
2. Pivot

Sort/filter functions are critical features which enables users to manipulate data to get insights much easier. All 5 offer these functions both from macro (entire monitoring of all features) and micro (individual monitoring of a feature) within the monitoring system.

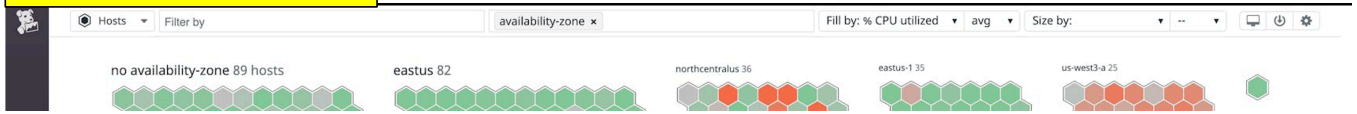
New Relic 2024



Datadog Azure VM integration

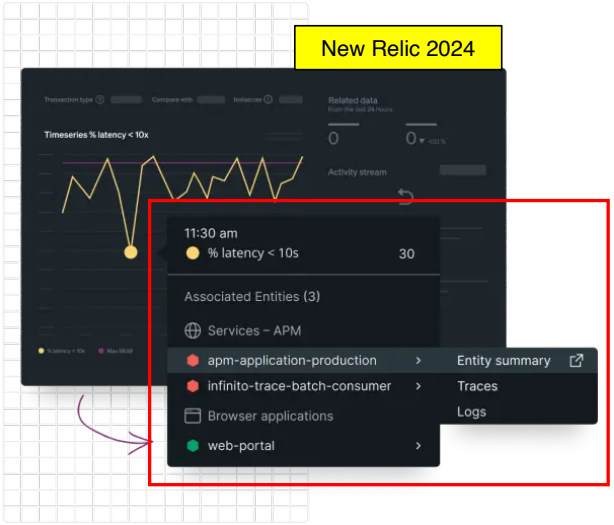


Datadog infrastructure monitoring



Splunk infrastructure monitoring

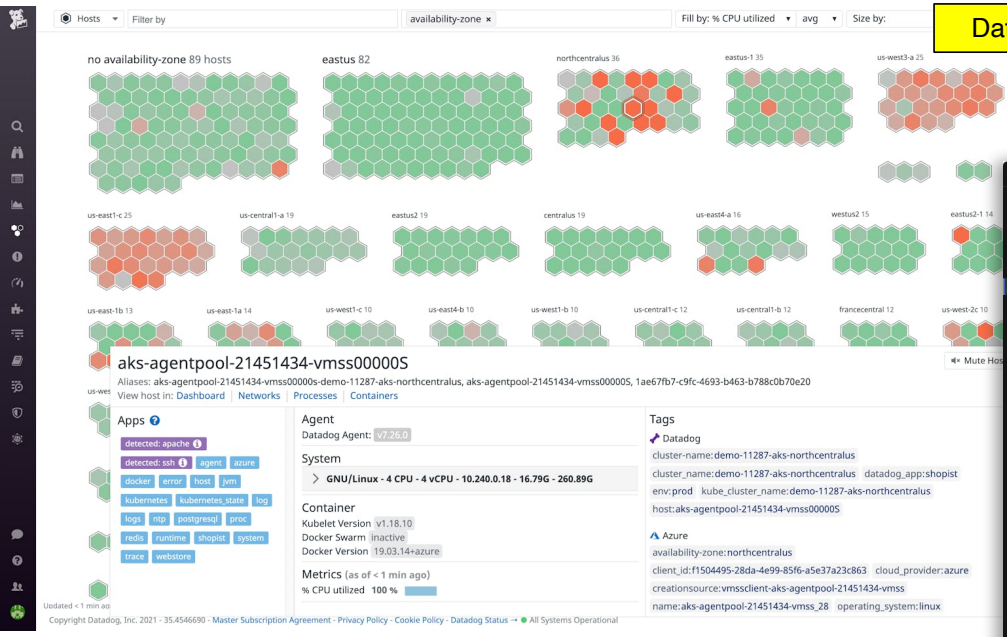
New Relic 2024



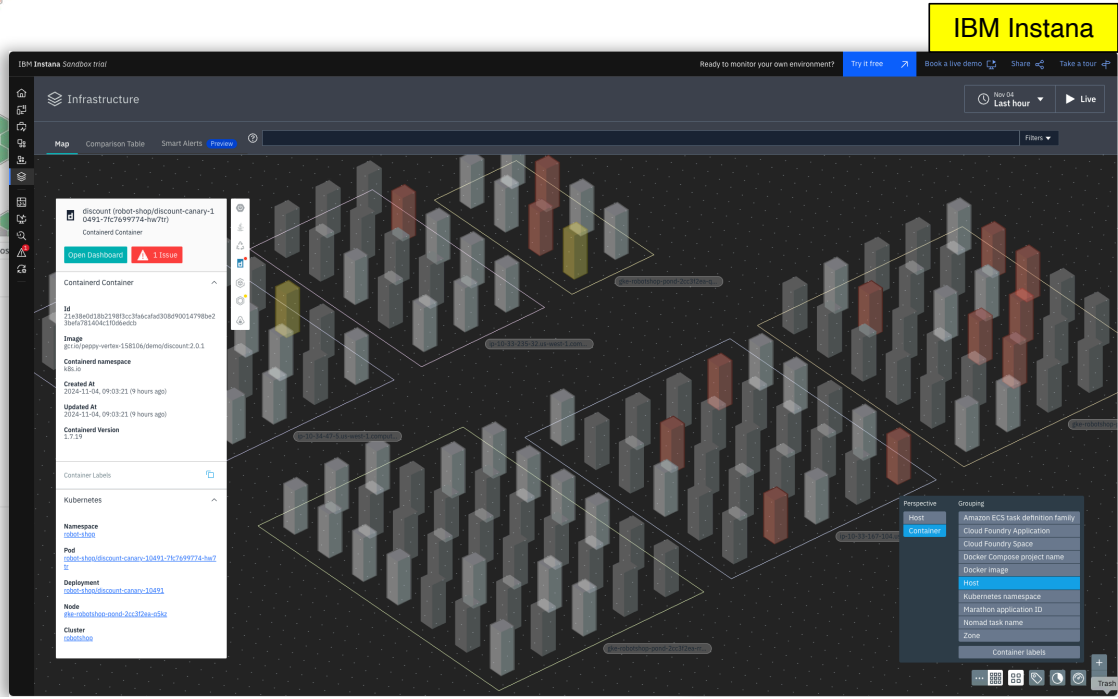
3. Data visualization

Datadog and New Relic stand out for its innovative use of data visualization. Datadog allows users to zoom in and out of the heat map to zero in issues to deep dive. New Relic offers various types of data-viz e.g. List (Table), Navigate and Lookout. Honorable mention: IBM Instana uses a 3D data-viz map.

Datadog



IBM Instana

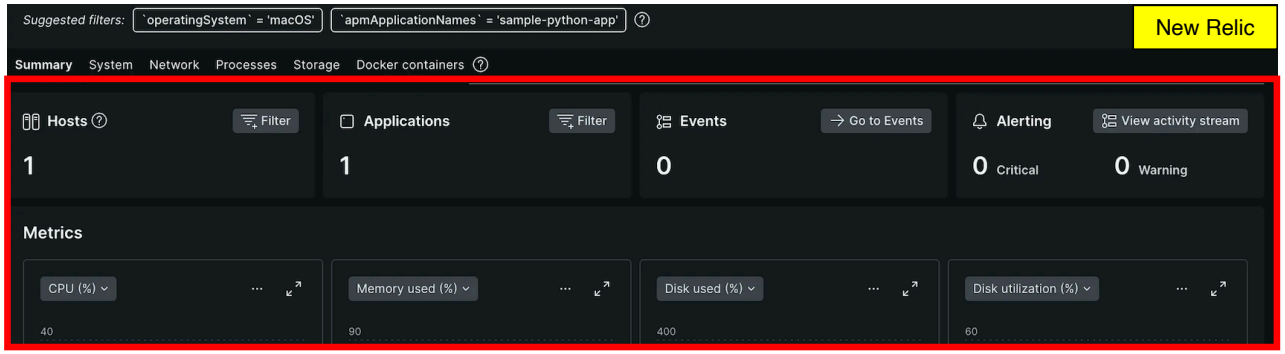


Demo: Datadog-hostmap-compressed.mp4

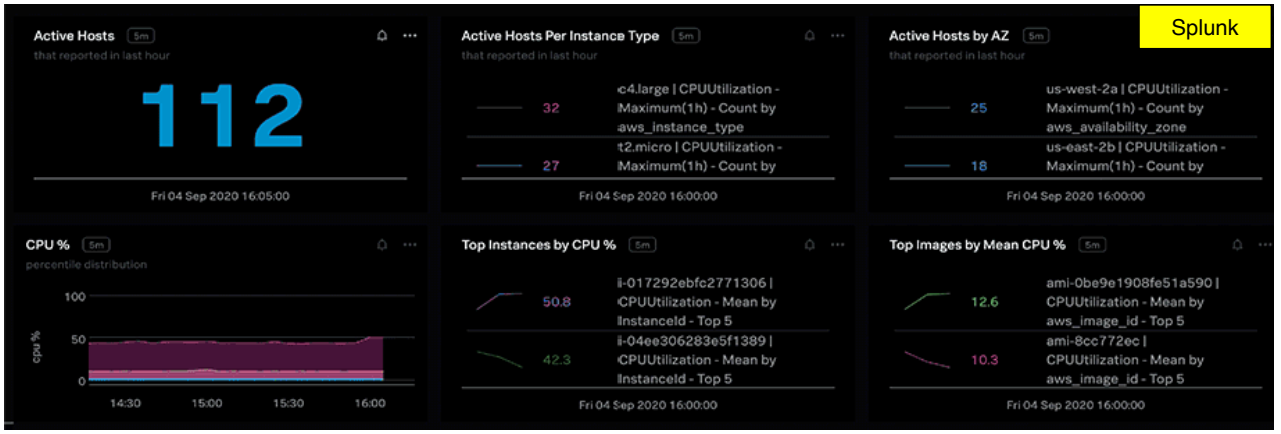
4. Headliners (Key metrics)

All 5 displays these key metrics namely: Alerts, Events, CPU, Memory, Network, Storage/Disk I/O. They surface the most critical and relevant key metrics/issues. Datadog lists VMs by top 5, 10 or 50 VMs

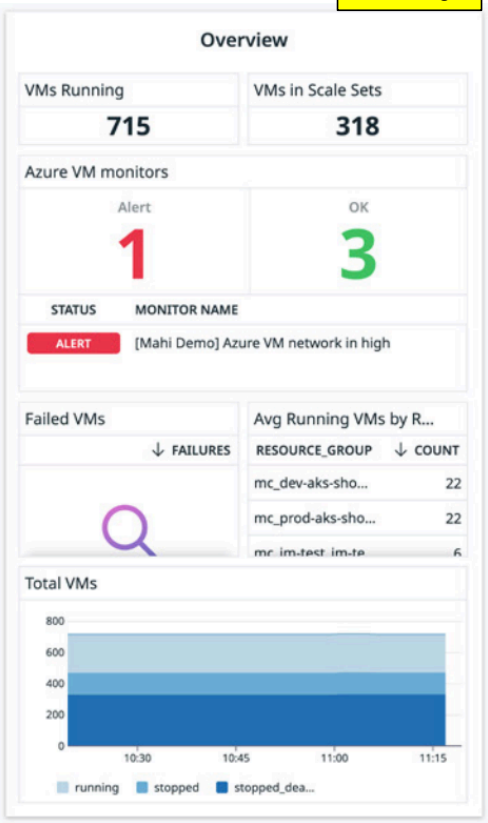
New Relic



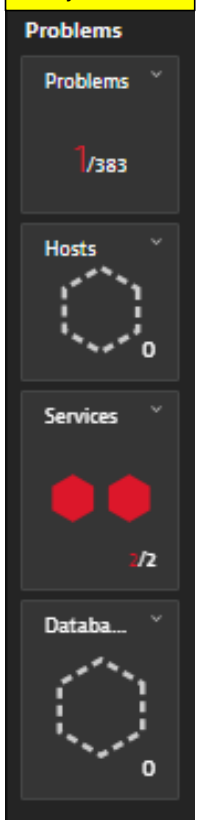
Splunk



Datadog



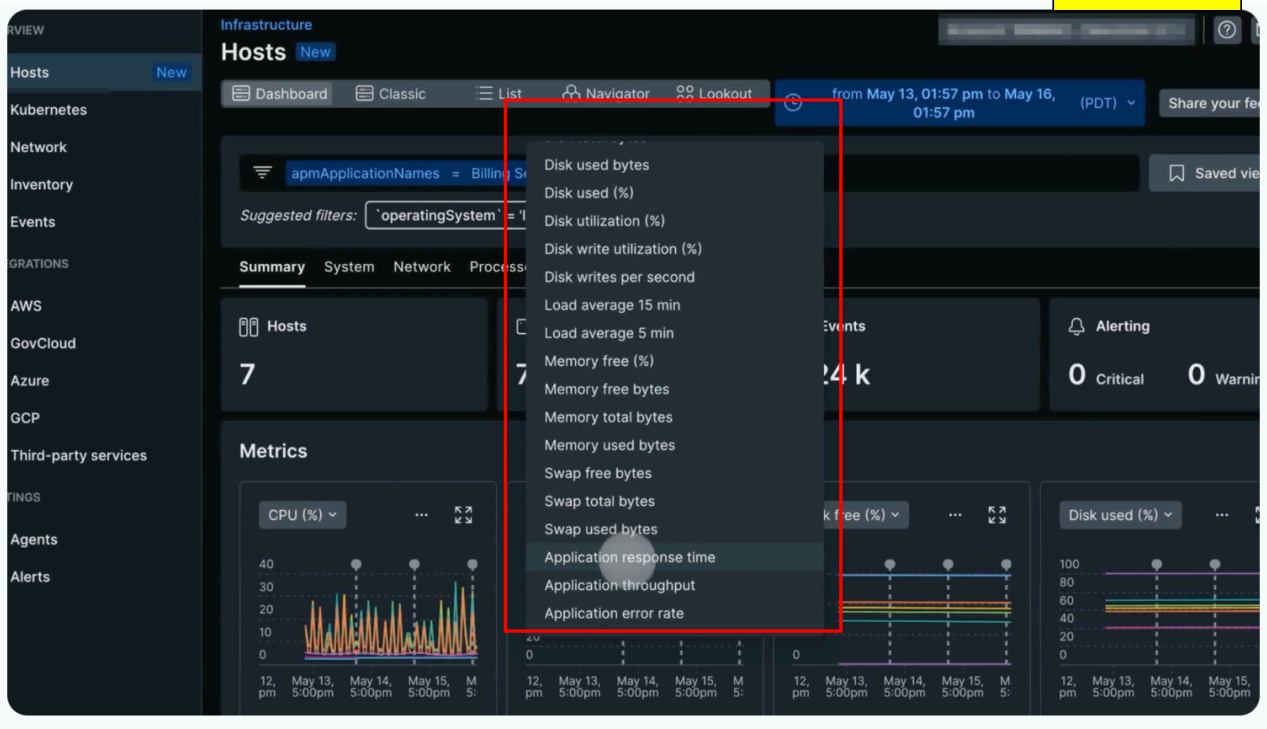
Dynatrace



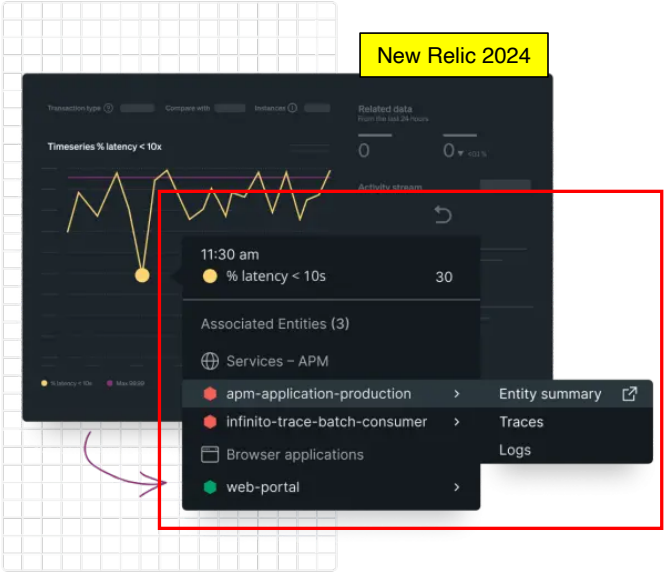
5. Metric charts

All 5 have offers **more** chart options which allows user to manipulate data e.g. Clone/delete/edit widget, convert to alert chart, show/hide legend … They provide relevant tools to guide users to dive into logs and traces in their diagnose and troubleshooting journey. New Relic offers some of the most extensive list of data sorting options.

New Relic 2024

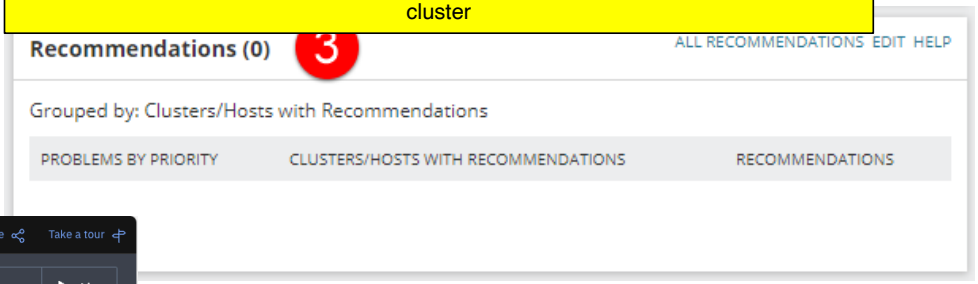


New Relic 2024

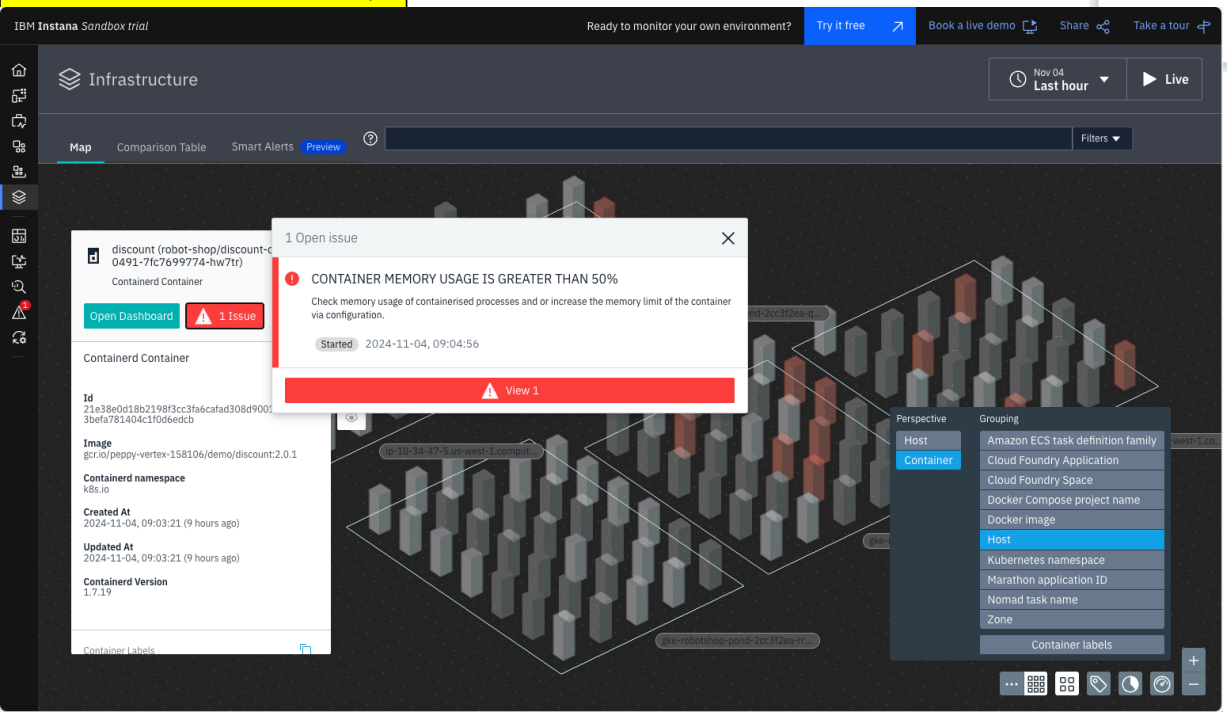


6. Other competitors worth mentioning

SolarWinds Virtualization Manager (VMAN) – Recommendations per VM Host or cluster



IBM Instana – 3D Infrastructure map



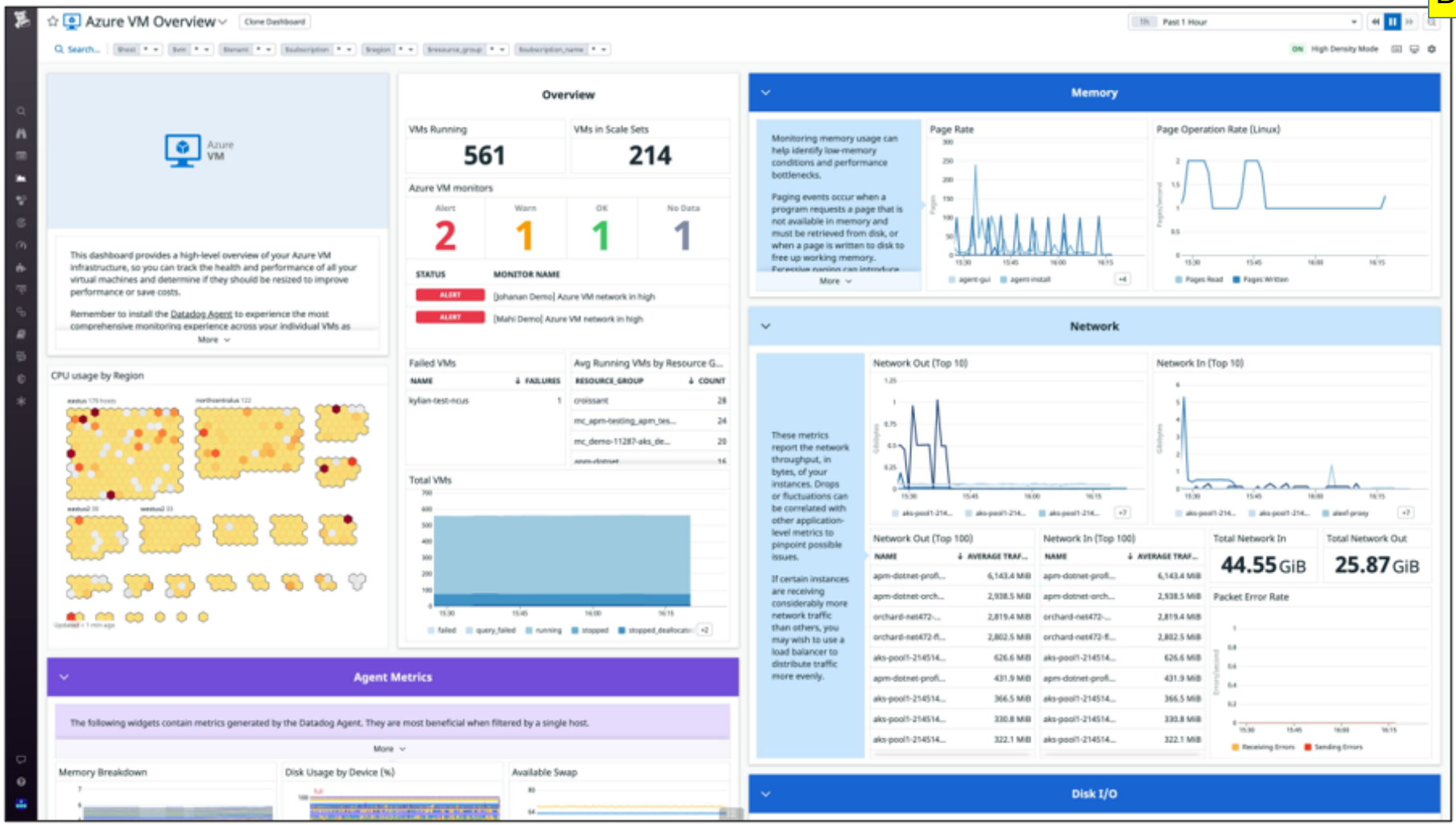
Datadog

Datadog Infrastructure Monitoring | Datadog

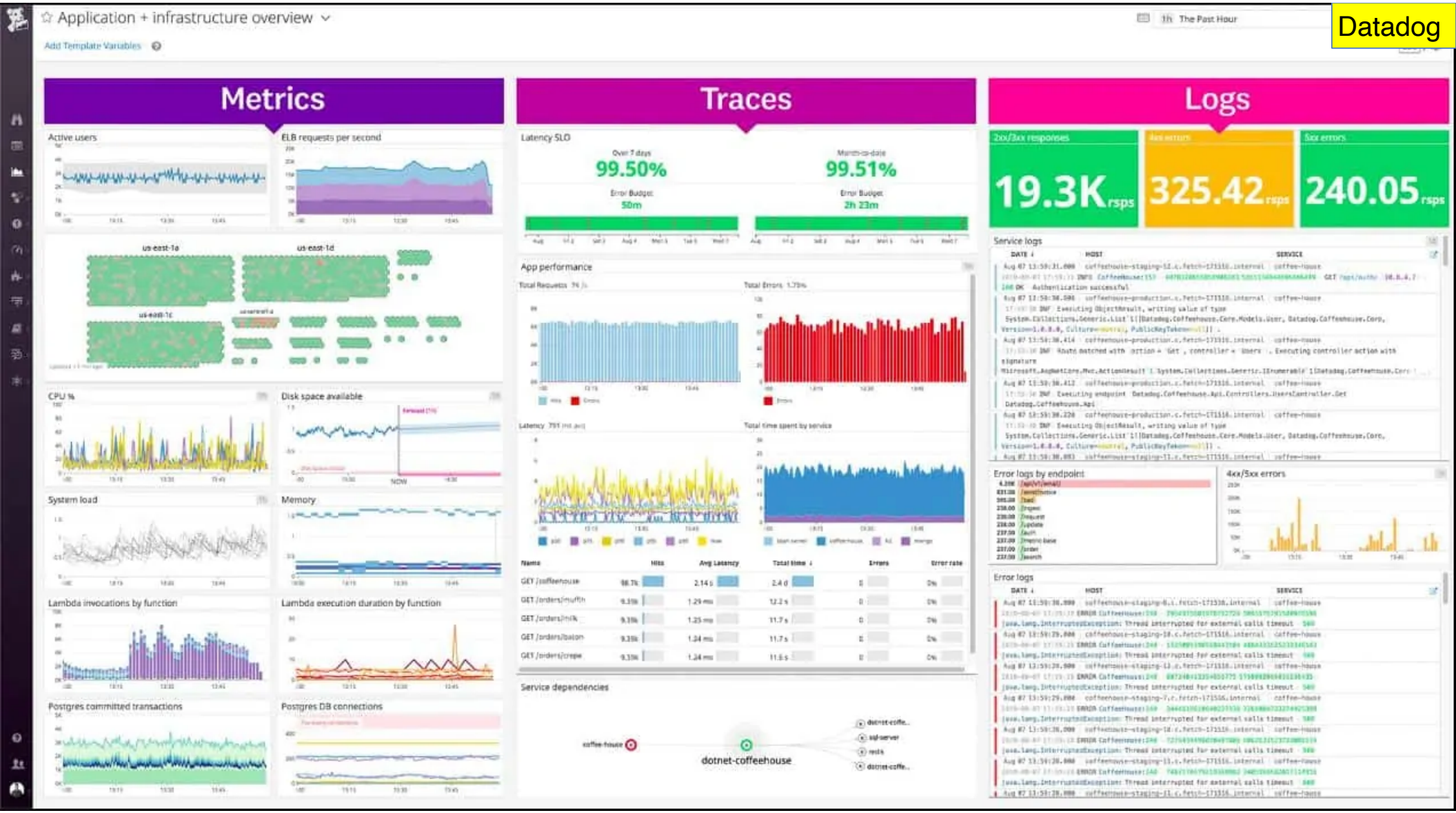
Demo: Datadog-hostmap-compressed.mp4

Cheatsheet-AzureVirtualMachine.pdf

Datadog



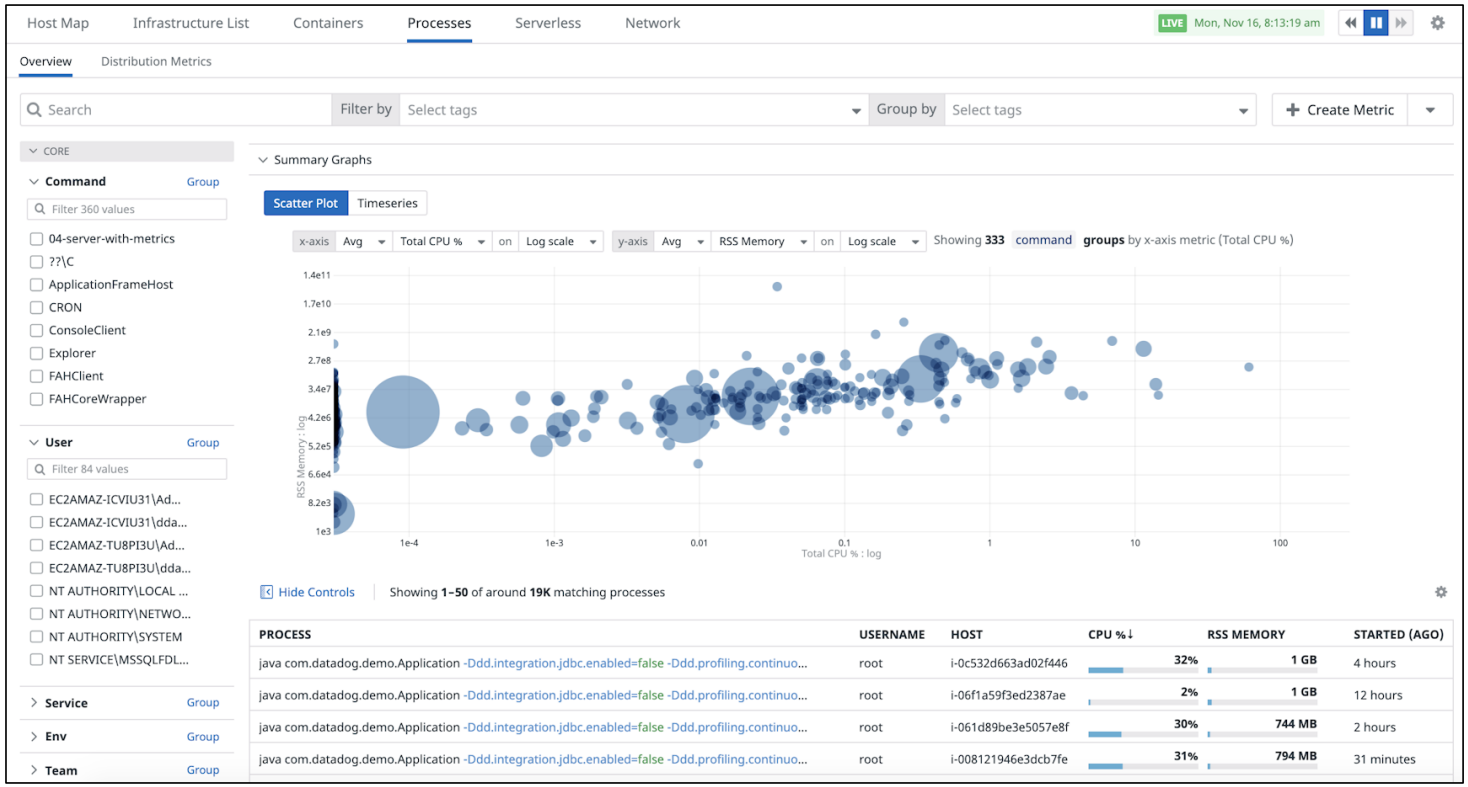
Cheatsheet-AzureVirtualMachine.pdf


Application + infrastructure overview
Add Template Variables
The Past Hour
Datadog
Metrics
Traces
Logs
Active users
ELB requests per second
us-east-1a
us-east-1d
us-east-1c
CPU %
Disk space available
System load
Memory
Lambda invocations by function
Lambda execution duration by function
Postgres committed transactions
Postgres DB connections
Latency SLO
Over 7 days
99.50%
Error Budget
50m
Month-to-date
99.51%
Error Budget
2h 23m
App performance
Total Requests
Total Errors
Latency
Total time spent by service
Name
Hits
Avg Latency
Total time
Errors
Error rate
GET /coffeehouse
GET /orders/muffin
GET /orders/milk
GET /orders/baton
GET /orders/crepe
Service dependencies
coffee-house
dotnet-coffeehouse
2xx/3xx responses
19.3K rsps
4xx errors
325.42 rsps
5xx errors
240.05 rsps
Service logs
Error logs by endpoint
4xx/5xx errors
Error logs

World Class VM Monitoring Experiences

Datadog

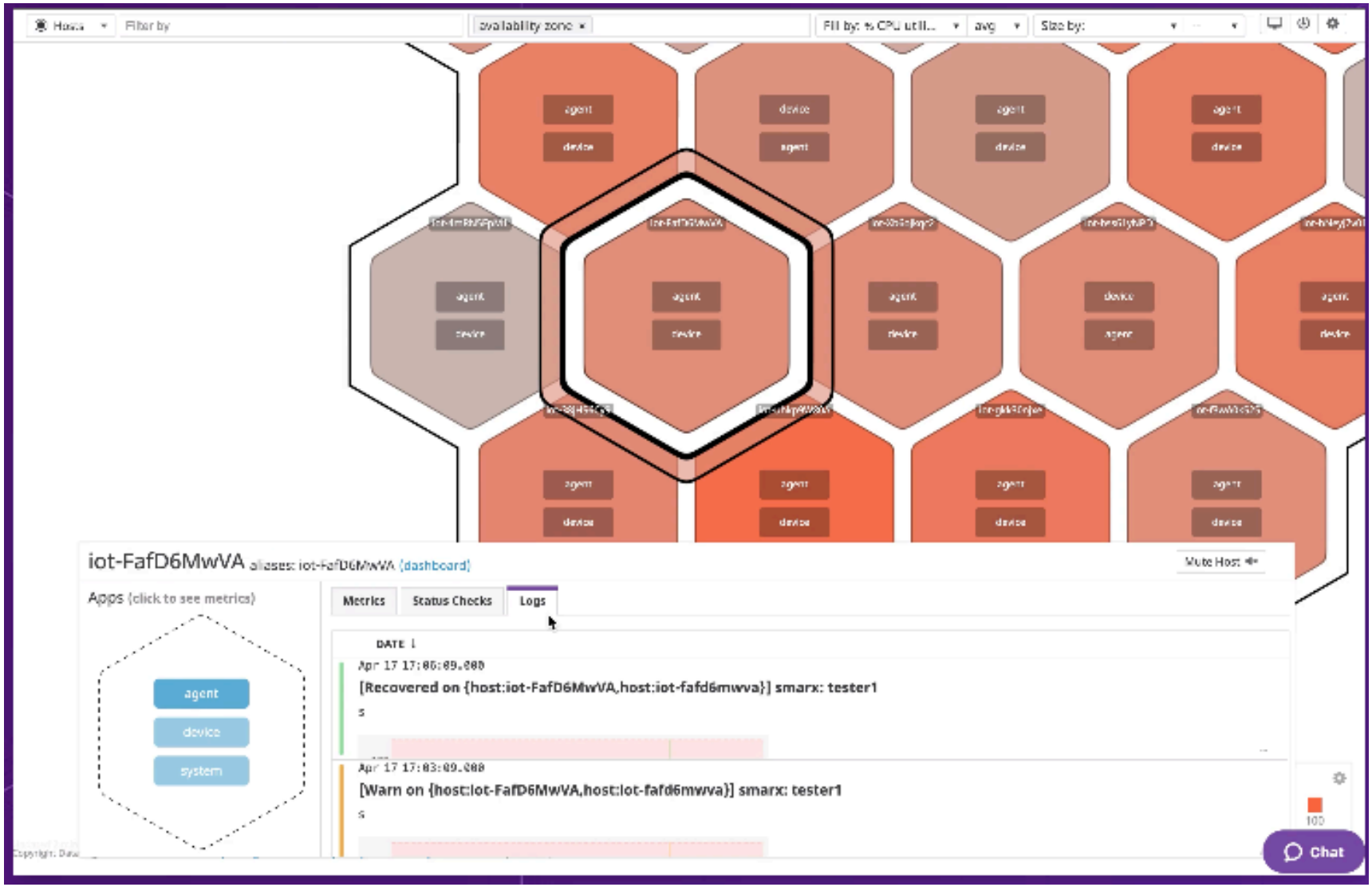
Monitoring VM Processes



Datadog Infrastructure Monitoring | Datadog

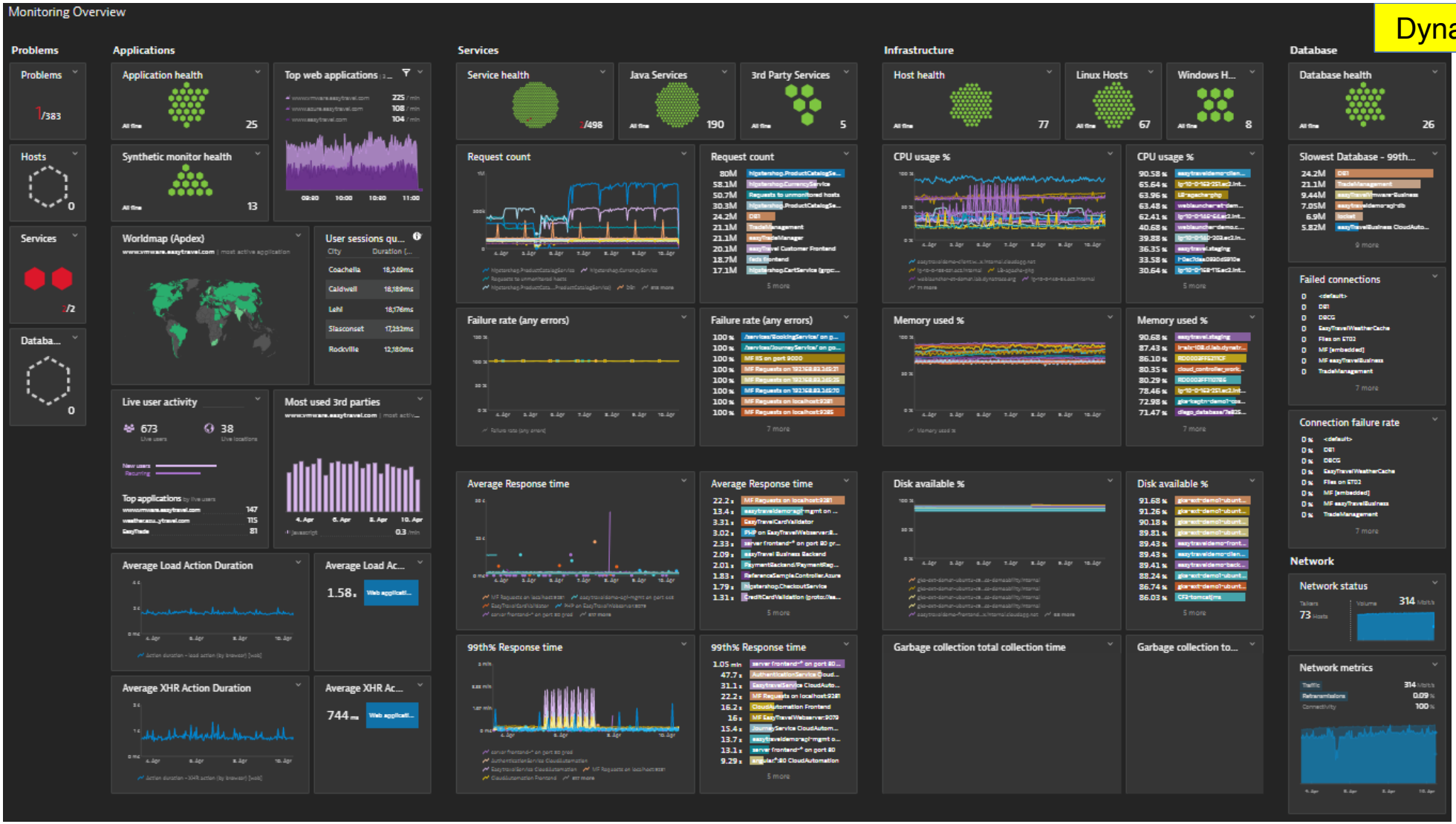
Demo: Datadog-hostmap-compressed.mp4

Datadog

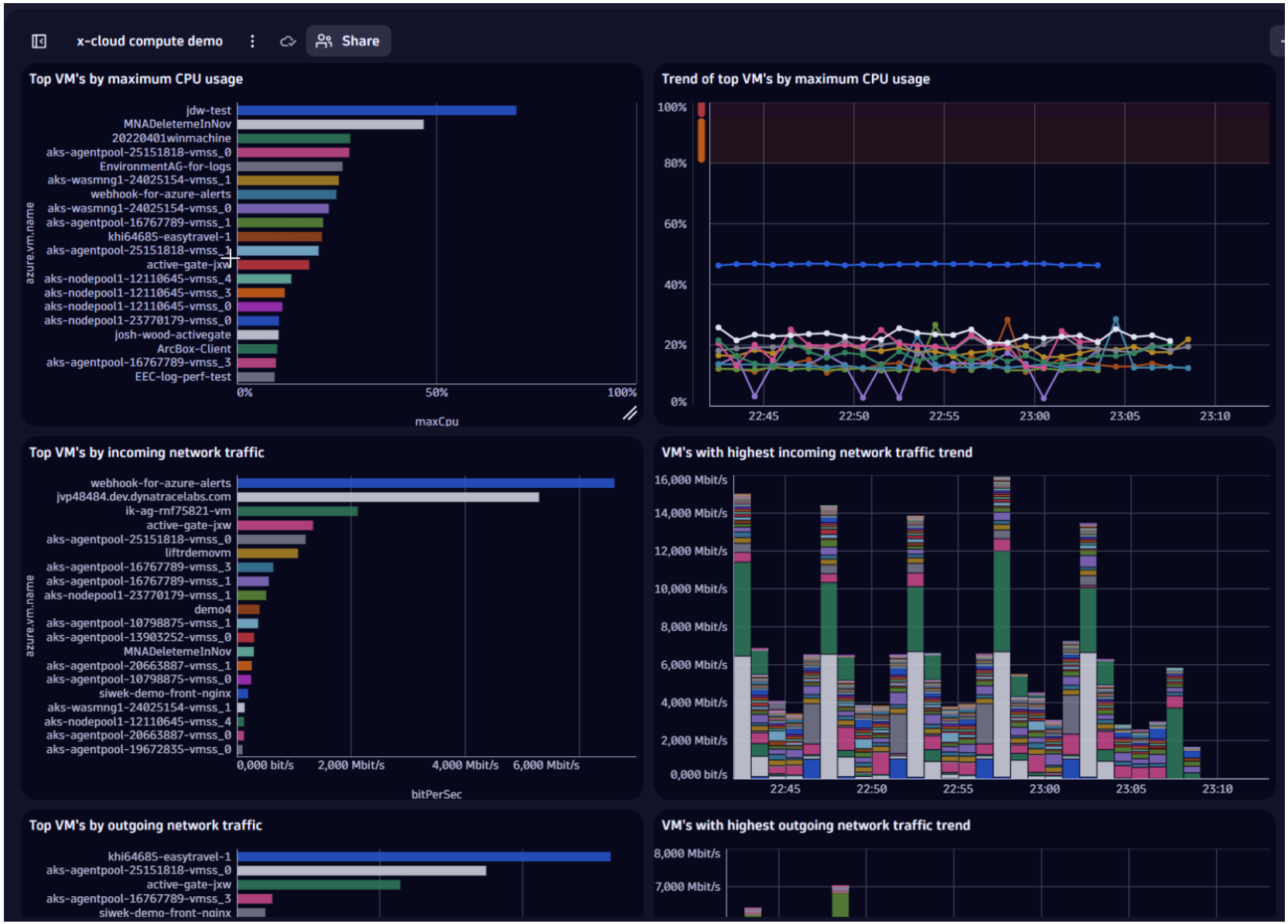

Hosts
Filter by
availability zone
Fill by: % CPU util...
avg
Size by:
agent
device
iot-FafD6MwVA aliases: iot-FafD6MwVA {dashboard}
Mute Host
Apps (click to see metrics)
agent
device
system
Metrics
Status Checks
Logs
DATE
Apr 17 17:06:09.000
[Recovered on {host:iot-FafD6MwVA,host:iot-fafd6mwva}] smarx: tester1
Apr 17 17:03:09.000
[Warn on {host:iot-FafD6MwVA,host:iot-fafd6mwva}] smarx: tester1
Chat

Dynatrace

Get to Know Dynatrace


Monitoring Overview
Dynatrace
Problems
Problems
1/383
Hosts
0
Services
2/2
Databa...
0
Applications
Application health
All fine
25
Synthetic monitor health
All fine
13
Top web applications
225 / min
108 / min
104 / min
09:50
10:00
10:10
11:00
Worldmap (Apdex)
www.vmware.easytravel.com | most active application
User sessions qu...
City
Duration (...
Coachella
18,269ms
Caldwell
18,189ms
Lehi
18,176ms
Slasconset
17,252ms
Rockville
12,180ms
Live user activity
673
Live users
38
Live locations
New users
Recurring
Top applications by live users
www.vmware.easytravel.com
147
weather.acu..ytravel.com
115
EasyTrade
81
Most used 3rd parties
www.vmware.easytravel.com | most activ...
4. Apr
6. Apr
8. Apr
10. Apr
JavaScript
0.3 /min
Average Load Action Duration
Average Load Ac...
1.58 s
Web applicati...
Average XHR Action Duration
Average XHR Ac...
744 ms
Web applicati...
Services
Service health
2/498
Java Services
All fine
190
3rd Party Services
All fine
5
Request count
80M
58.1M
50.7M
Requests to unmonitored hosts
30.3M
24.2M
DB1
21.1M
TradeManagement
21.1M
easyTradeManager
20.1M
easyTravel Customer Frontend
18.7M
feds frontend
17.1M
5 more
Failure rate (any errors)
100 %
/services/BookingService/ on p...
/services/JourneyService/ on po...
MF IIS on port 9000
MF Requests on 192.168.82.245:21
MF Requests on 192.168.82.245:26
MF Requests on 192.168.82.245:70
MF Requests on localhost:9281
MF Requests on localhost:9285
7 more
Average Response time
22.2 s
MF Requests on localhost:9281
13.4 s
easytravelsimple-mgmt on ...
3.31 s
EasyTravelCardValidator
3.02 s
PHP on EasyTravelWebserver:8...
2.33 s
server frontend-* on port 80 pr...
2.09 s
easyTravel Business Backend
2.01 s
PaymentBackend/PaymentReq...
1.83 s
ReferenceSample.Controller.Azure
1.79 s
bigstershop.CheckoutService
1.31 s
CreditCardValidation (proto://tea...
5 more
99th% Response time
1.05 min
server frontend-* on port 80 ...
47.7 s
AuthenticationService Cloud...
31.1 s
EasyTravelService CloudAuto...
22.2 s
MF Requests on localhost:9281
16.2 s
CloudAutomation Frontend
16 s
MF EasyTravelWebserver:9079
15.4 s
JourneyService CloudAutom...
13.7 s
easytravelsimple-mgmt o...
13.1 s
server frontend-* on port 80
9.29 s
angular-80 CloudAutomation
5 more
Infrastructure
Host health
All fine
77
Linux Hosts
All fine
67
Windows H...
All fine
8
CPU usage %
90.58 %
65.64 %
63.96 %
63.48 %
62.41 %
40.68 %
39.88 %
36.35 %
33.58 %
30.64 %
5 more
Memory used %
90.68 %
87.43 %
86.10 %
80.35 %
80.29 %
78.46 %
72.98 %
71.47 %
7 more
Disk available %
91.68 %
91.26 %
90.18 %
89.81 %
89.43 %
89.43 %
89.41 %
88.24 %
86.74 %
86.03 %
5 more
Garbage collection total collection time
Garbage collection to...
Database
Database health
All fine
26
Slowest Database - 99th...
24.2M
DB1
21.1M
TradeManagement
9.44M
7.05M
6.9M
Socket
5.82M
easyTravelBusiness CloudAuto...
9 more
Failed connections
0
<default>
0
DB1
0
DBCG
0
EasyTravelWeatherCache
0
Files on ET02
0
MF [embedded]
0
MF easyTravelBusiness
0
TradeManagement
7 more
Connection failure rate
0 %
<default>
0 %
DB1
0 %
DBCG
0 %
EasyTravelWeatherCache
0 %
Files on ET02
0 %
MF [embedded]
0 %
MF easyTravelBusiness
0 %
TradeManagement
7 more
Network
Network status
Tailors
73
Hosts
Volume
314
Network metrics
Traffic
314
Retransmissions
0.09 %
Connectivity
100 %

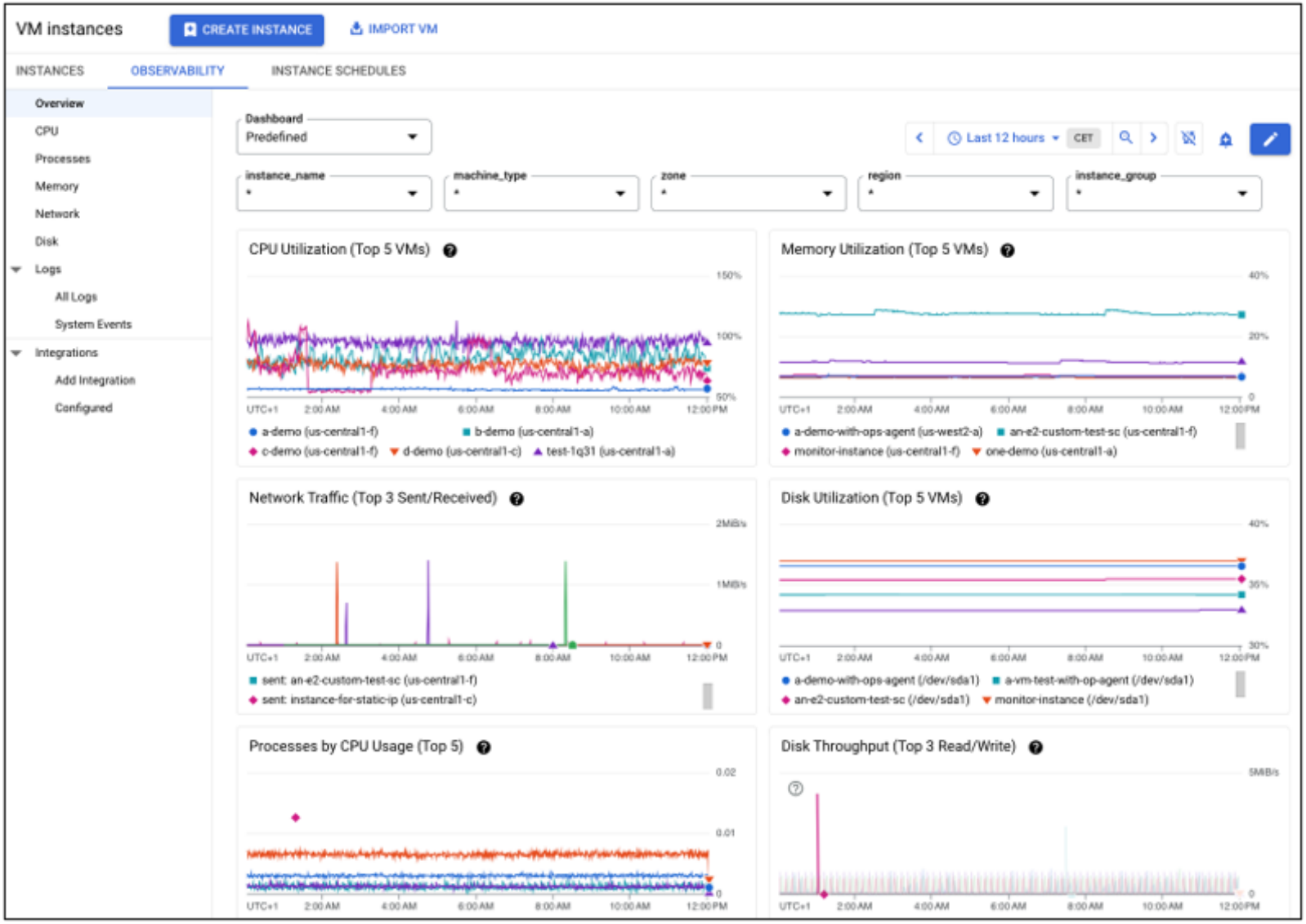
Dynatrace


x-cloud compute demo
Share
Top VM's by maximum CPU usage
jdw-test
MNADeletemeInNov
20220401winmachine
aks-agentpool-25151818-vmss_0
EnvironmentAG-for-logs
aks-wasmng1-24025154-vmss_1
webhook-for-azure-alerts
aks-wasmng1-24025154-vmss_0
aks-agentpool-16767789-vmss_1
khi64685-easytravel-1
aks-agentpool-25151818-vmss_1
active-gate-jxw
aks-nodepool1-12110645-vmss_4
aks-nodepool1-12110645-vmss_3
aks-nodepool1-12110645-vmss_0
aks-nodepool1-23770179-vmss_0
josh-wood-activegate
ArcBox-Client
aks-agentpool-16767789-vmss_3
EEC-log-perf-test
azure.vm.name
0%
50%
100%
maxCpu
Trend of top VM's by maximum CPU usage
100%
80%
60%
40%
20%
0%
22:45
22:50
22:55
23:00
23:05
23:10
Top VM's by incoming network traffic
webhook-for-azure-alerts
jvp48484.dev.dynatracelabs.com
ik-ag-rnf75821-vm
active-gate-jxw
aks-agentpool-25151818-vmss_0
liftrdemovm
aks-agentpool-16767789-vmss_3
aks-agentpool-16767789-vmss_1
aks-nodepool1-23770179-vmss_1
demo4
aks-agentpool-10798875-vmss_1
aks-agentpool-13903252-vmss_0
MNADeletemeInNov
aks-agentpool-20663887-vmss_1
aks-agentpool-10798875-vmss_0
siwek-demo-front-nginx
aks-wasmng1-24025154-vmss_1
aks-nodepool1-12110645-vmss_4
aks-agentpool-20663887-vmss_0
aks-agentpool-19672835-vmss_0
azure.vm.name
0,000 bit/s
2,000 Mbit/s
4,000 Mbit/s
6,000 Mbit/s
bitPerSec
VM's with highest incoming network traffic trend
16,000 Mbit/s
14,000 Mbit/s
12,000 Mbit/s
10,000 Mbit/s
8,000 Mbit/s
6,000 Mbit/s
4,000 Mbit/s
2,000 Mbit/s
0,000 bit/s
22:45
22:50
22:55
23:00
23:05
23:10
Top VM's by outgoing network traffic
khi64685-easytravel-1
aks-agentpool-25151818-vmss_0
active-gate-jxw
aks-agentpool-16767789-vmss_3
siwek-demo-front-nginx
VM's with highest outgoing network traffic trend
8,000 Mbit/s
7,000 Mbit/s

Google Cloud Monitoring

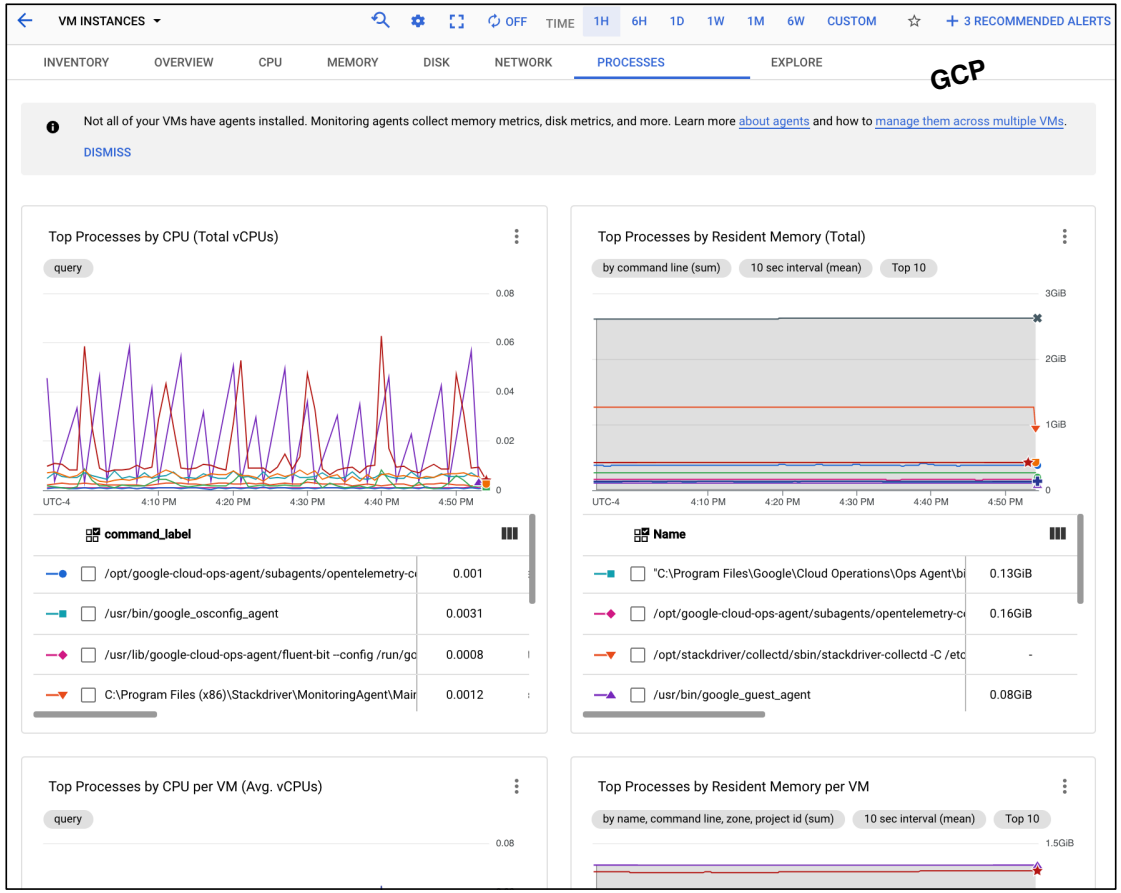
Observe and monitor VMs | Compute Engine Documentation | Google Cloud

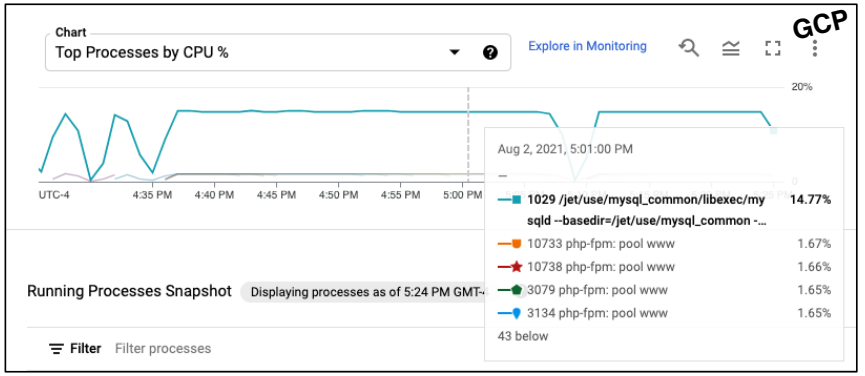
GCP

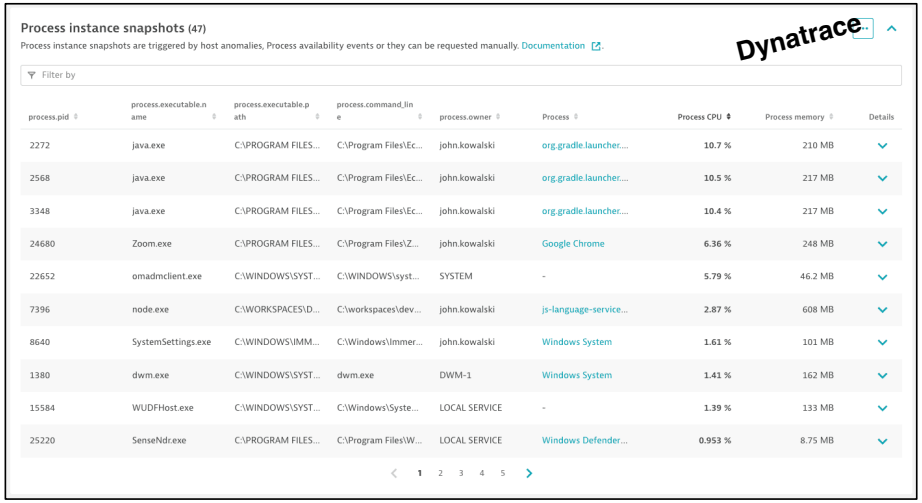

VM instances
CREATE INSTANCE
IMPORT VM
INSTANCES
OBSERVABILITY
INSTANCE SCHEDULES
Overview
CPU
Processes
Memory
Network
Disk
Logs
All Logs
System Events
Integrations
Add Integration
Configured
Dashboard
Predefined
Last 12 hours
CET
instance_name
machine_type
zone
region
instance_group
CPU Utilization (Top 5 VMs)
150%
100%
50%
UTC+1
2:00 AM
4:00 AM
6:00 AM
8:00 AM
10:00 AM
12:00 PM
a-demo (us-central1-f)
b-demo (us-central1-a)
c-demo (us-central1-f)
d-demo (us-central1-c)
test-1q31 (us-central1-a)
Memory Utilization (Top 5 VMs)
40%
20%
0
a-demo-with-ops-agent (us-west2-a)
an-e2-custom-test-sc (us-central1-f)
monitor-instance (us-central1-f)
one-demo (us-central1-a)
Network Traffic (Top 3 Sent/Received)
2MiB/s
1MiB/s
0
sent: an-e2-custom-test-sc (us-central1-f)
sent: instance-for-static-ip (us-central1-c)
Disk Utilization (Top 5 VMs)
40%
35%
30%
a-demo-with-ops-agent (/dev/sda1)
a-vm-test-with-op-agent (/dev/sda1)
an-e2-custom-test-sc (/dev/sda1)
monitor-instance (/dev/sda1)
Processes by CPU Usage (Top 5)
0.02
0.01
0
Disk Throughput (Top 3 Read/Write)
5MiB/s
0

World Class VM Monitoring Experiences

Monitoring VM Processes





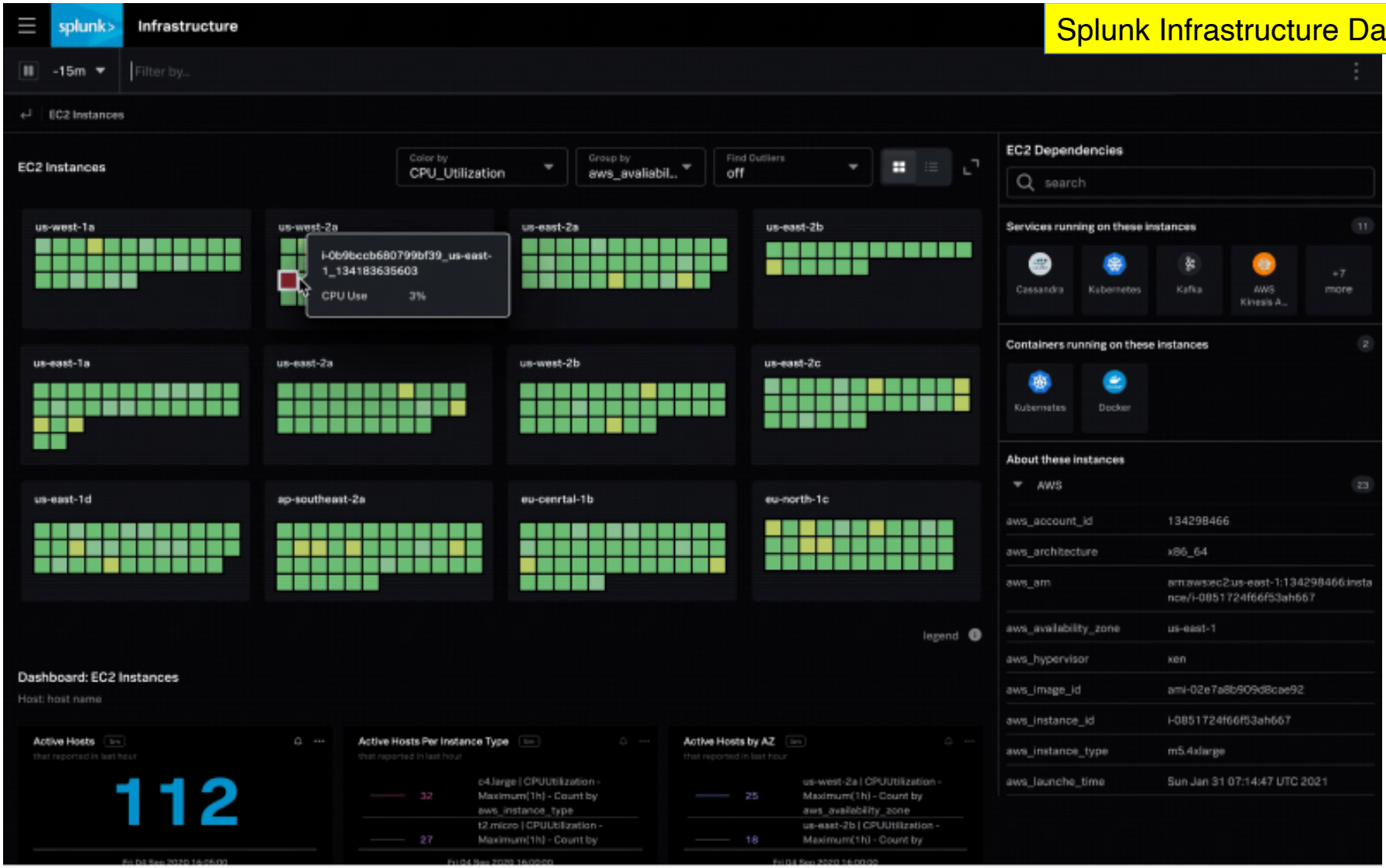


Splunk

Infrastructure Monitoring (IM) Tour

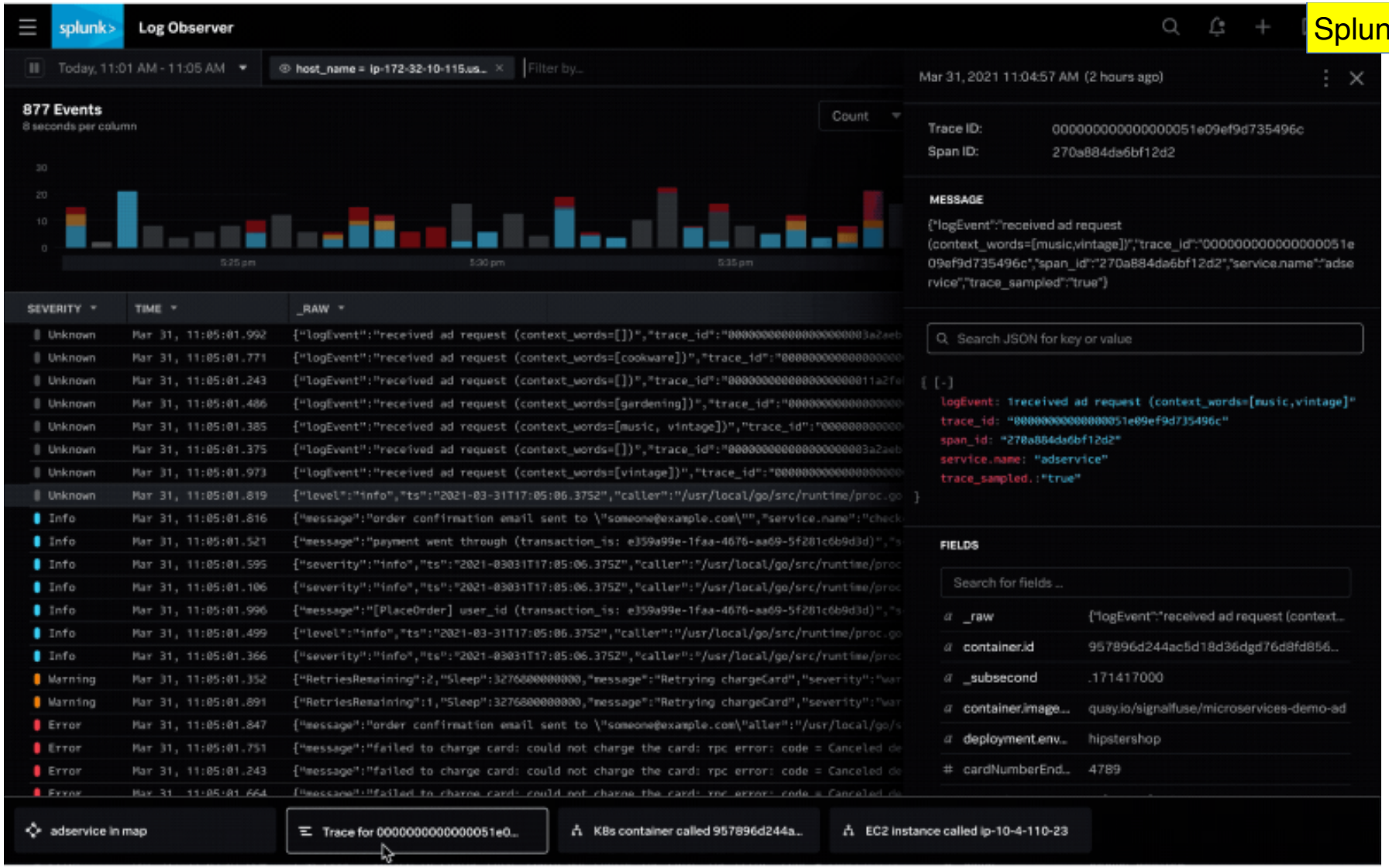
Splunk Infrastructure Monitoring & Troubleshooting workflow demo

Splunk Infrastructure Dashboard



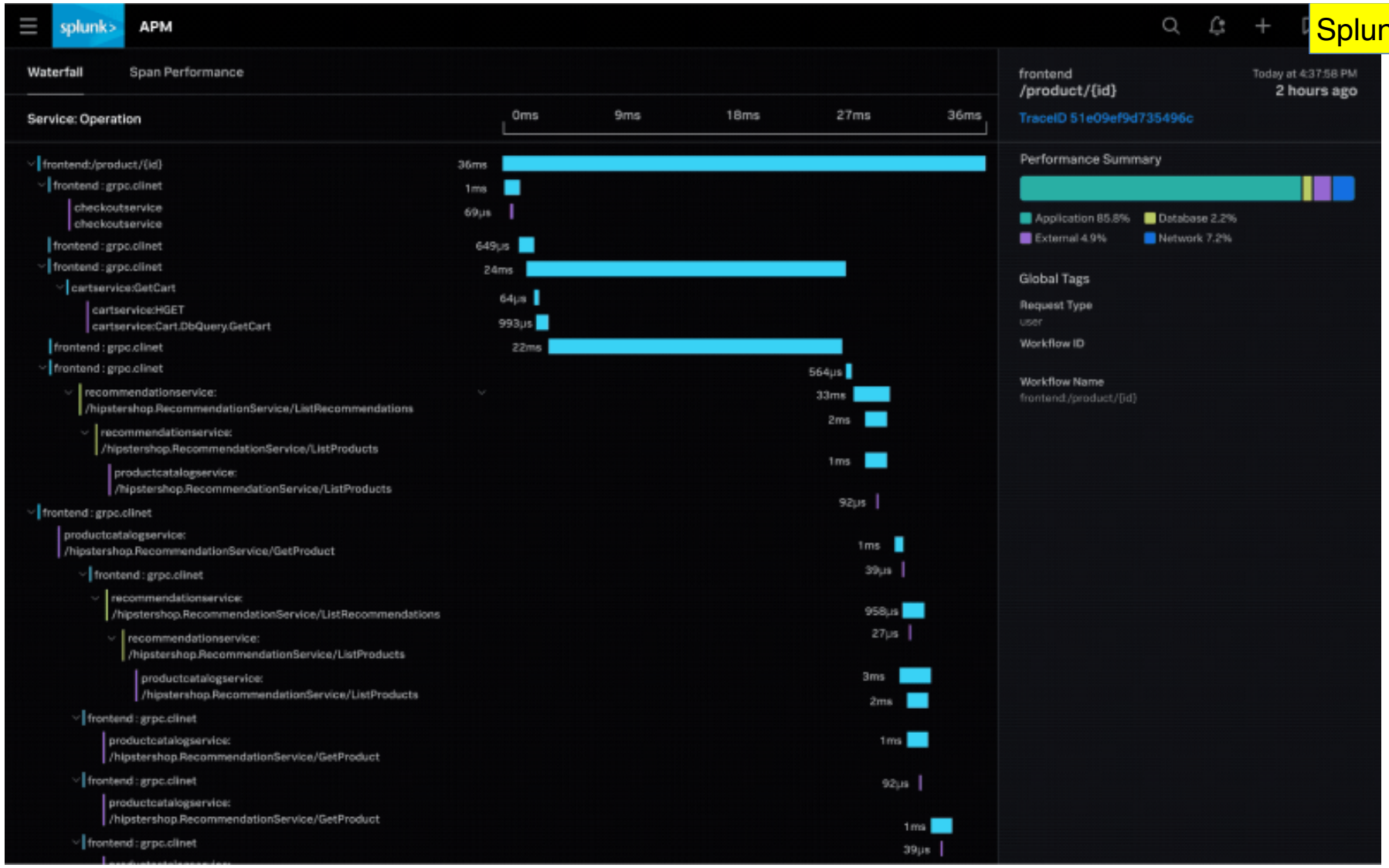
Infrastructure Monitoring (IM) Tour

splunk-observability-metrics-logs-traces.gif



Infrastructure Monitoring (IM) Tour

splunk-observability-metrics-logs-traces.gif



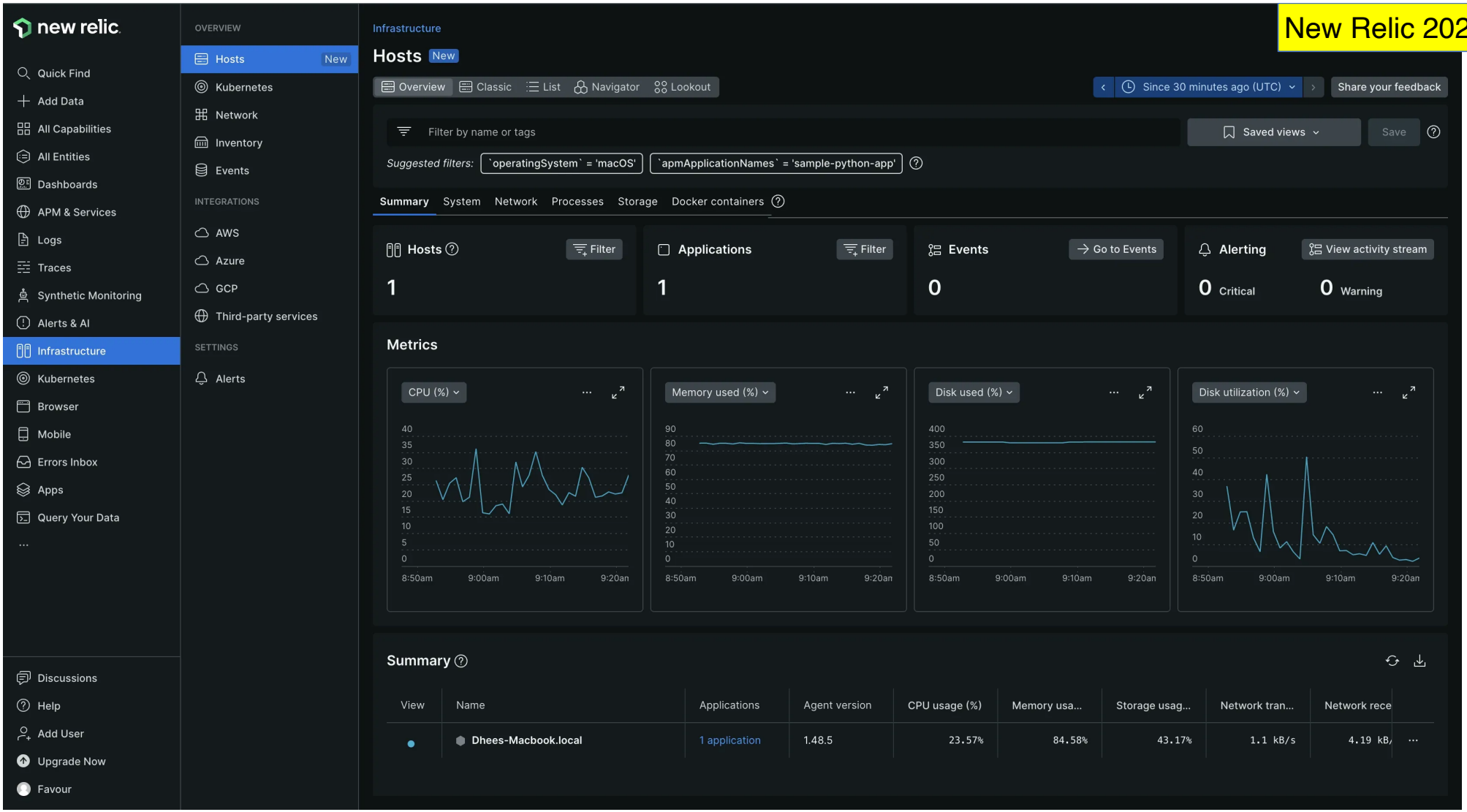
Splunk (Tracing)

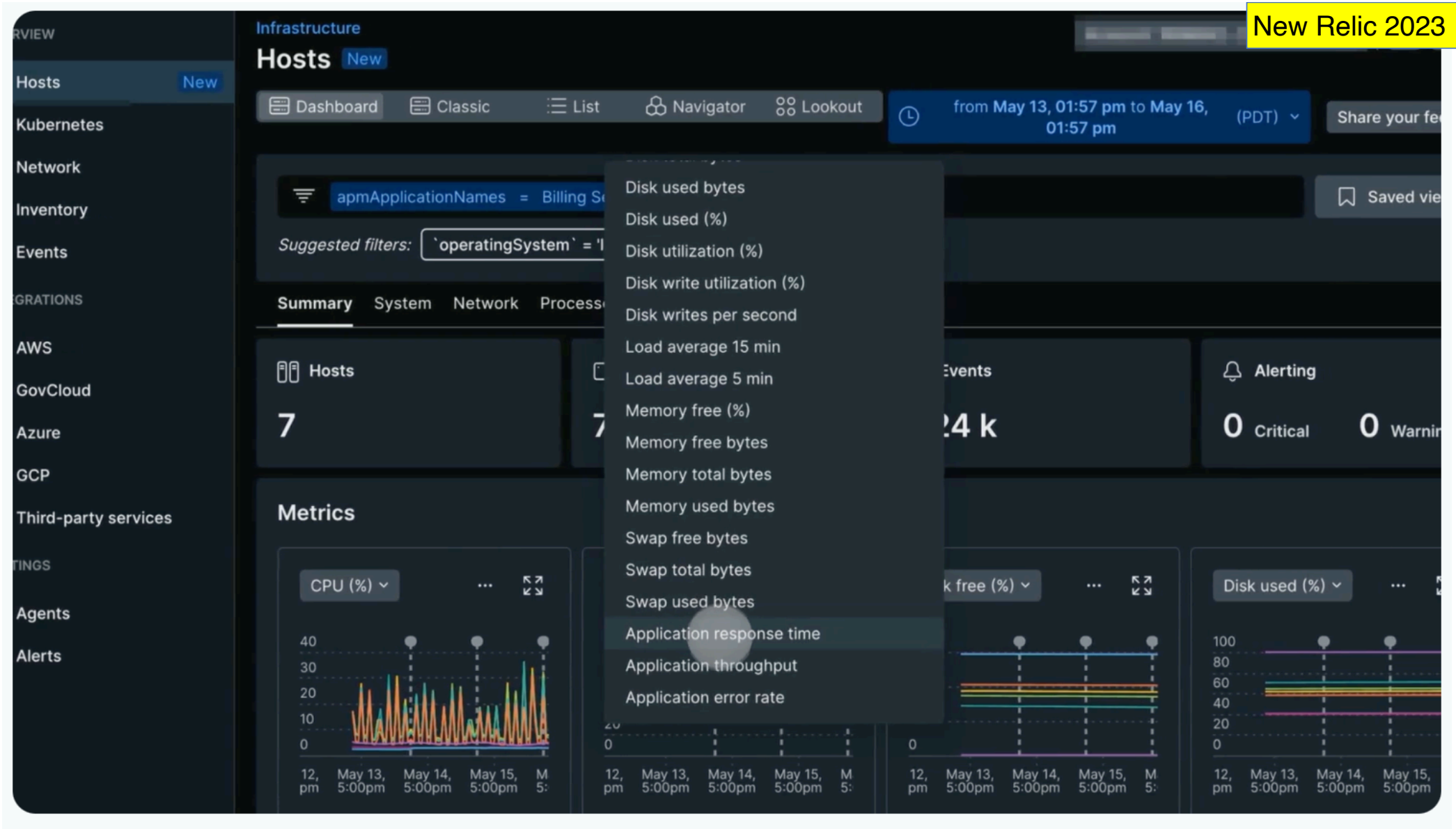
New Relic

New Relic Infrastructure (2024)

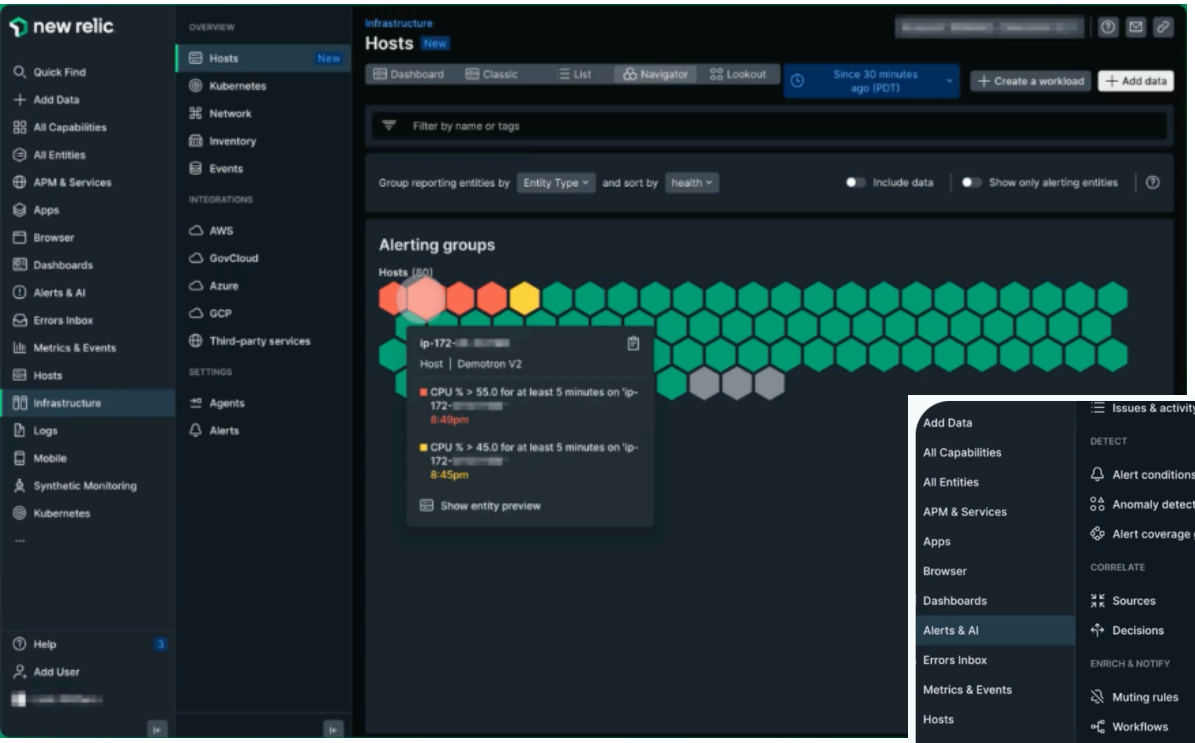
New Relic Observability Platform | New Relic (2021)

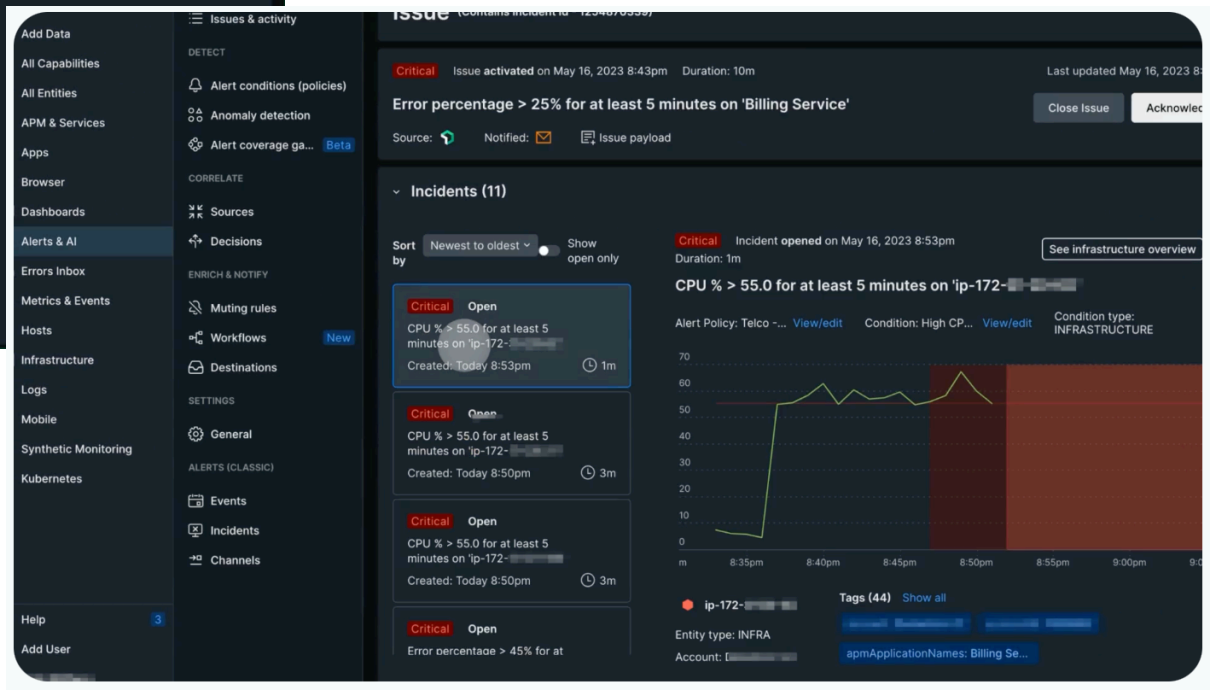
Introducing our new infrastructure monitoring experience - YouTube (2021)

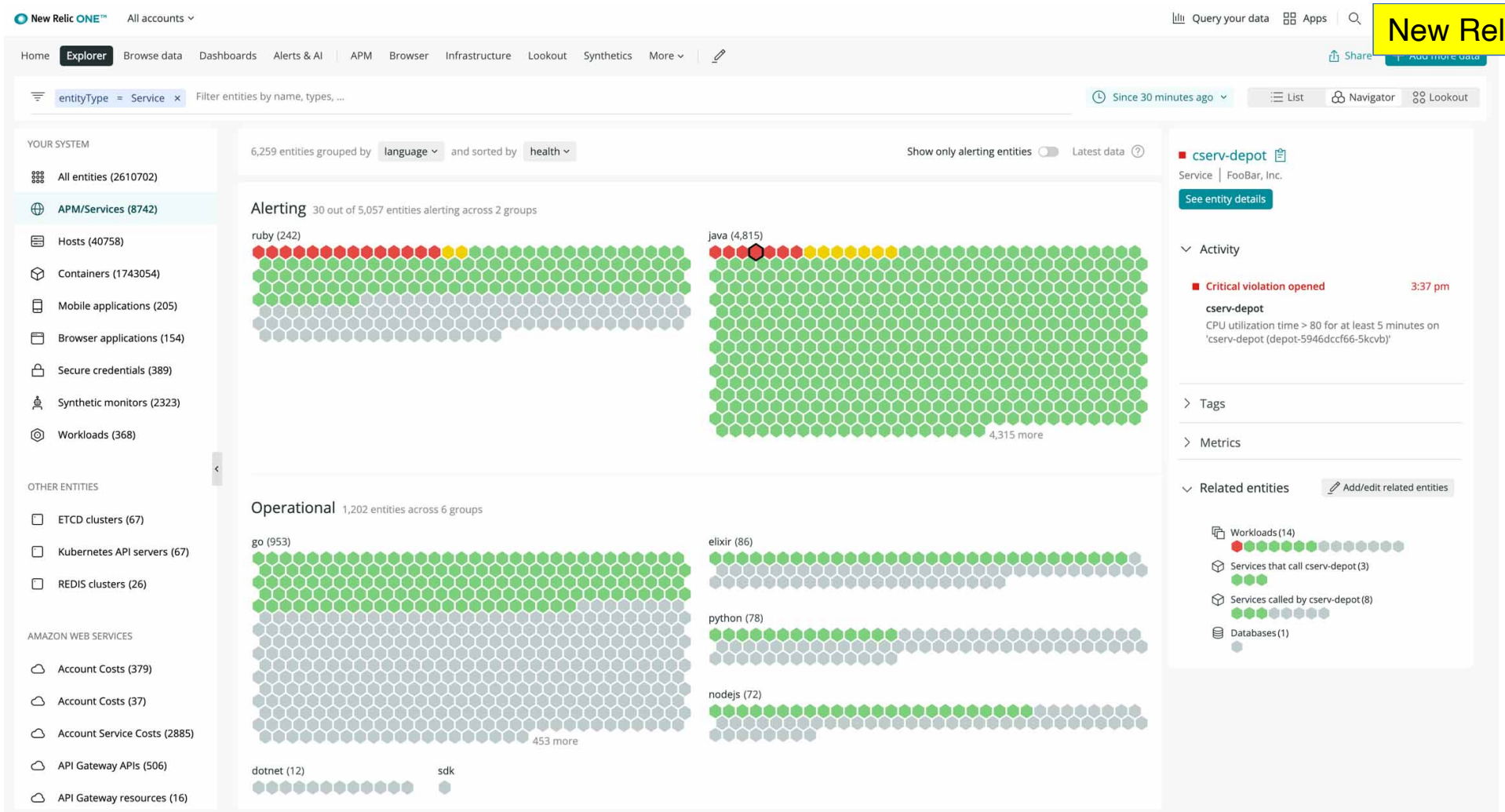

new relic
Quick Find
Add Data
All Capabilities
All Entities
Dashboards
APM & Services
Logs
Traces
Synthetic Monitoring
Alerts & AI
Infrastructure
Kubernetes
Browser
Mobile
Errors Inbox
Apps
Query Your Data
Discussions
Help
Add User
Upgrade Now
Favour
OVERVIEW
Hosts New
Kubernetes
Network
Inventory
Events
INTEGRATIONS
AWS
Azure
GCP
Third-party services
SETTINGS
Alerts
Infrastructure
Hosts New
Overview
Classic
List
Navigator
Lookout
Since 30 minutes ago (UTC)
Share your feedback
New Relic 2023
Filter by name or tags
Saved views
Save
Suggested filters:
`operatingSystem` = 'macOS'
`apmApplicationNames` = 'sample-python-app'
Summary
System
Network
Processes
Storage
Docker containers
Hosts
Filter
1
Applications
Filter
1
Events
Go to Events
0
Alerting
View activity stream
0 Critical
0 Warning
Metrics
CPU (%)
Memory used (%)
Disk used (%)
Disk utilization (%)
8:50am
9:00am
9:10am
9:20an
Summary
View
Name
Applications
Agent version
CPU usage (%)
Memory usa...
Storage usag...
Network tran...
Network rece
Dhees-Macbook.local
1 application
1.48.5
23.57%
84.58%
43.17%
1.1 kB/s
4.19 kB/


New Relic 2023
RVIEW
Hosts New
Kubernetes
Network
Inventory
Events
GRATIONS
AWS
GovCloud
Azure
GCP
Third-party services
TINGS
Agents
Alerts
Infrastructure
Hosts New
Dashboard
Classic
List
Navigator
Lookout
from May 13, 01:57 pm to May 16, 01:57 pm (PDT)
Share your fe
apmApplicationNames = Billing S
Saved vie
Suggested filters:
`operatingSystem` = 'I
Summary
System
Network
Process
Hosts
7
Events
24 k
Alerting
0 Critical
0 Warnir
Metrics
CPU (%)
Disk used (%)
Disk used bytes
Disk used (%)
Disk utilization (%)
Disk write utilization (%)
Disk writes per second
Load average 15 min
Load average 5 min
Memory free (%)
Memory free bytes
Memory total bytes
Memory used bytes
Swap free bytes
Swap total bytes
Swap used bytes
Application response time
Application throughput
Application error rate
40
30
20
10
0
100
80
60
40
20
0
12, pm
May 13, 5:00pm
May 14, 5:00pm
May 15, 5:00pm

New Relic 2023



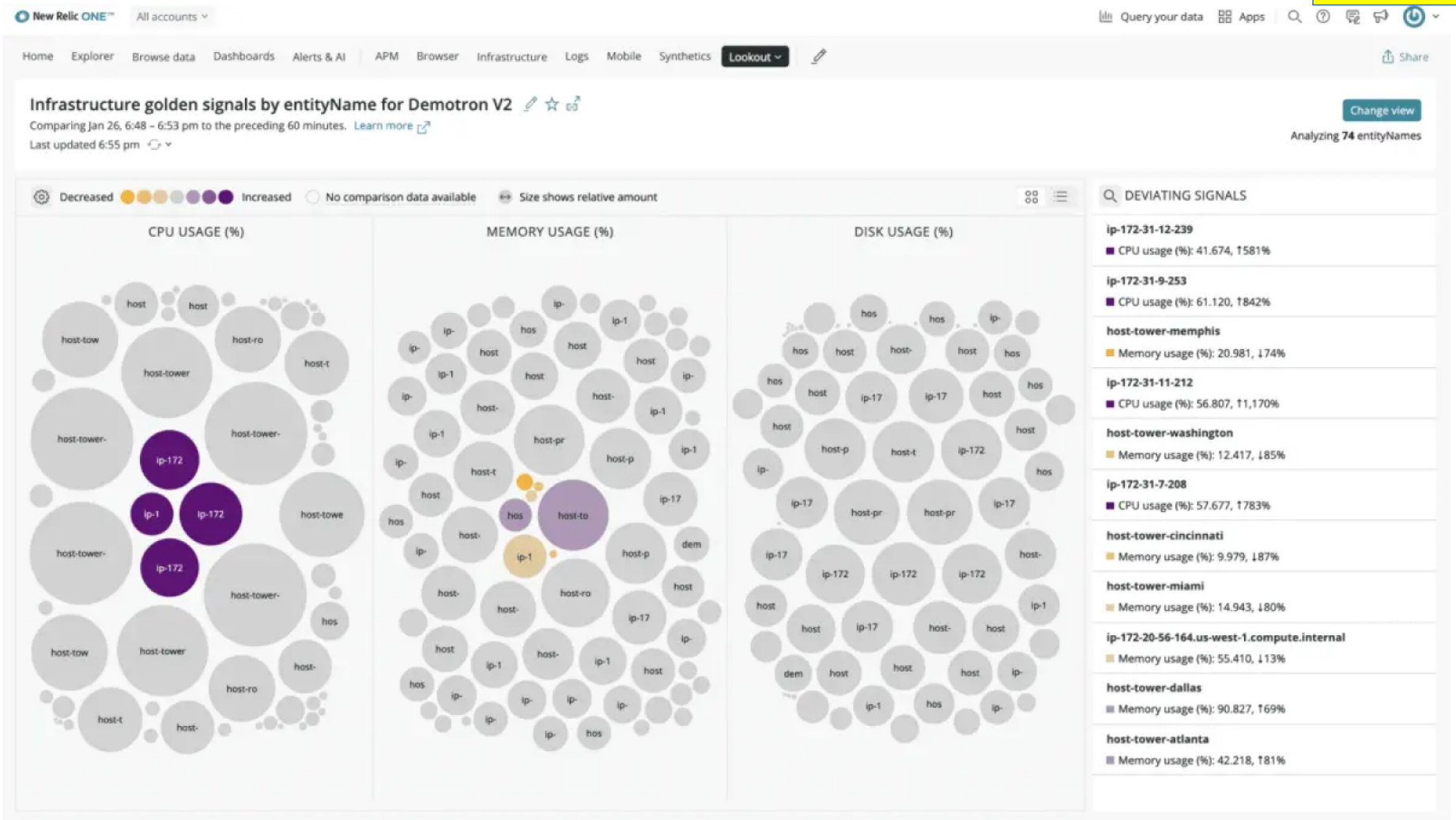




[New Relic Observability Platform | New Relic]

[Introducing our new infrastructure monitoring experience - YouTube]

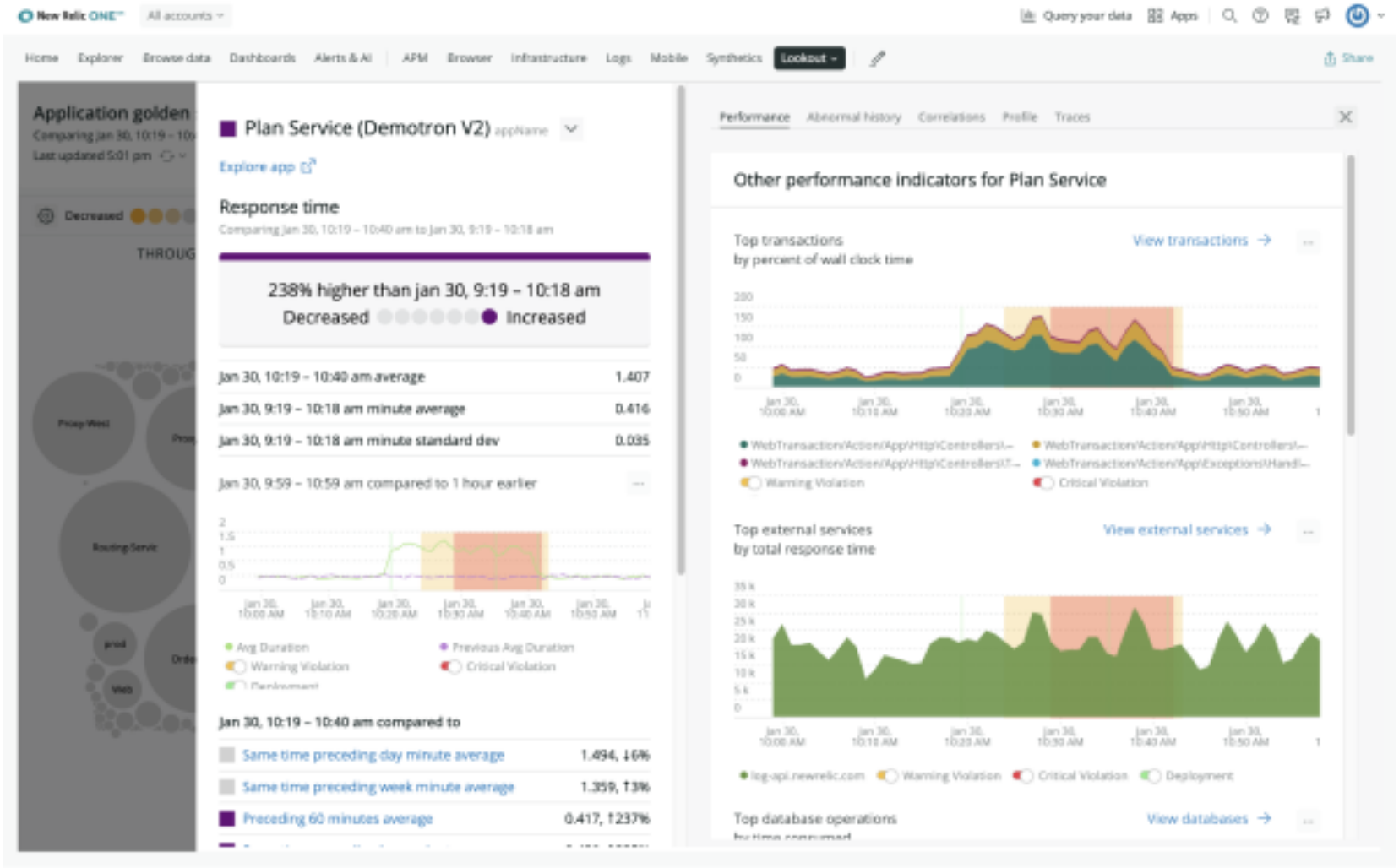
New Relic 2021



New Relic Observability Platform | New Relic

Introducing our new infrastructure monitoring experience - YouTube

New Relic 2021

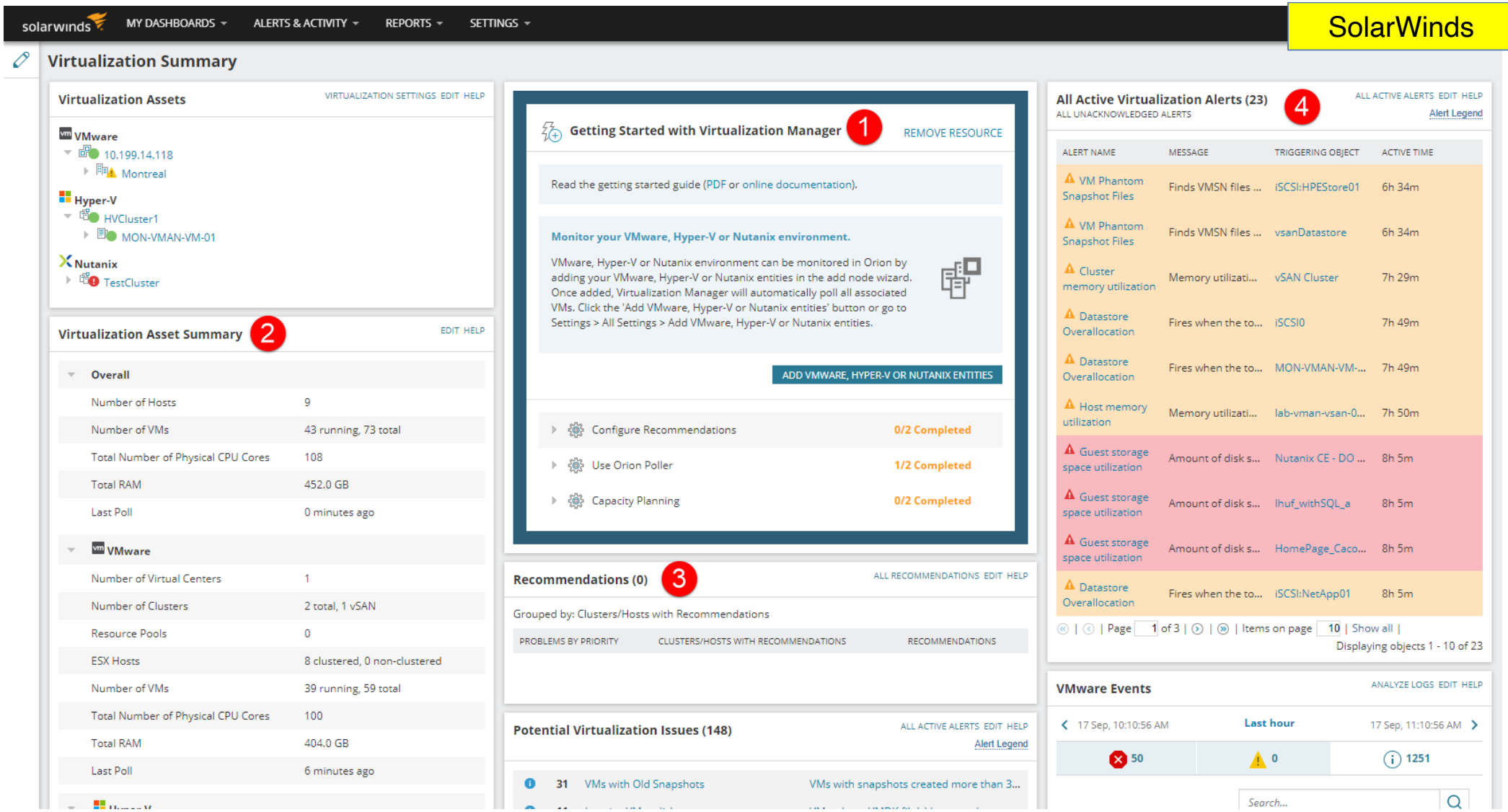


New Relic Observability Platform | New Relic

Introducing our new infrastructure monitoring experience - YouTube

SolarWinds

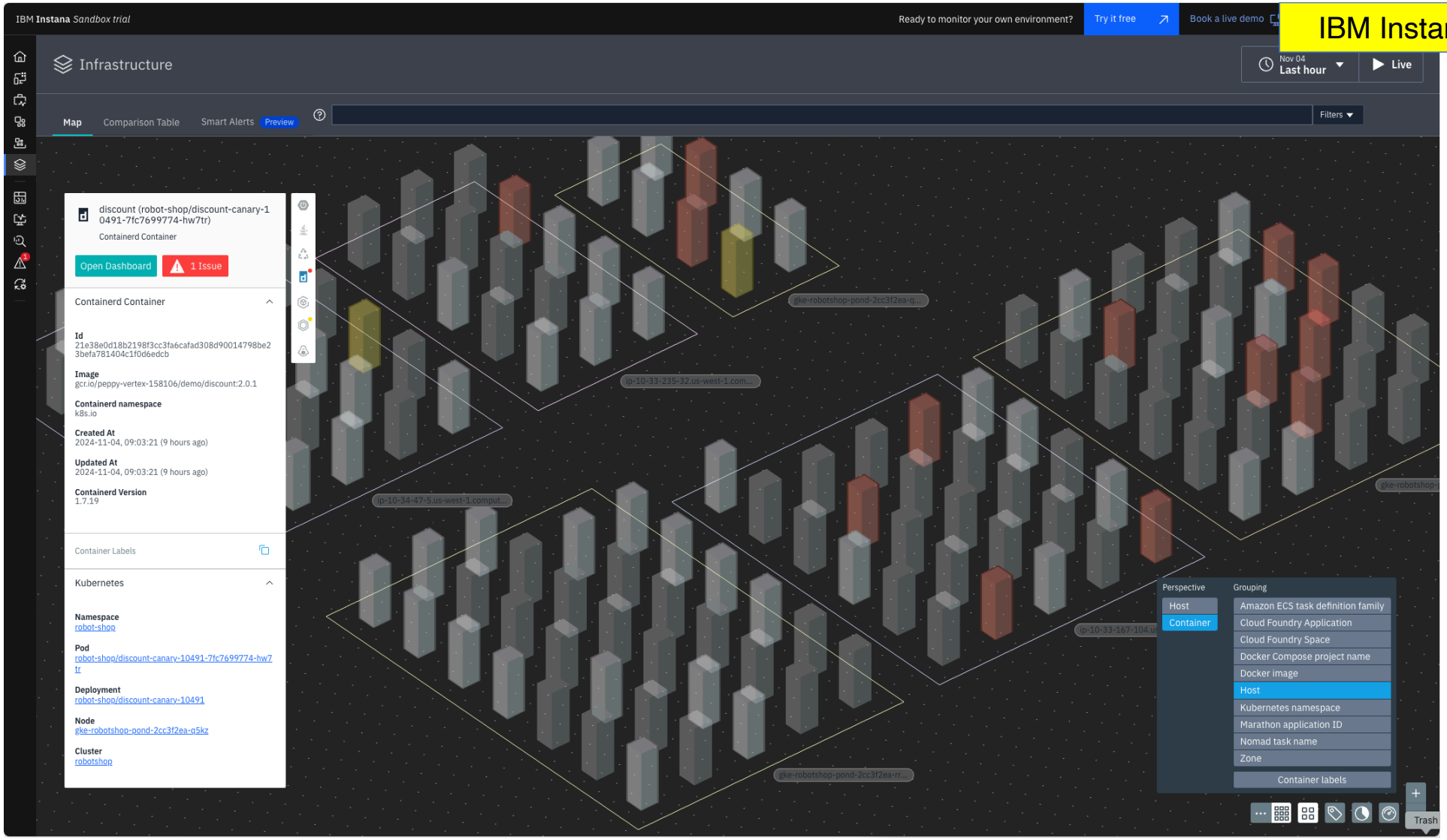
Explore your VMAN environment



[Explore your VMAN environment]

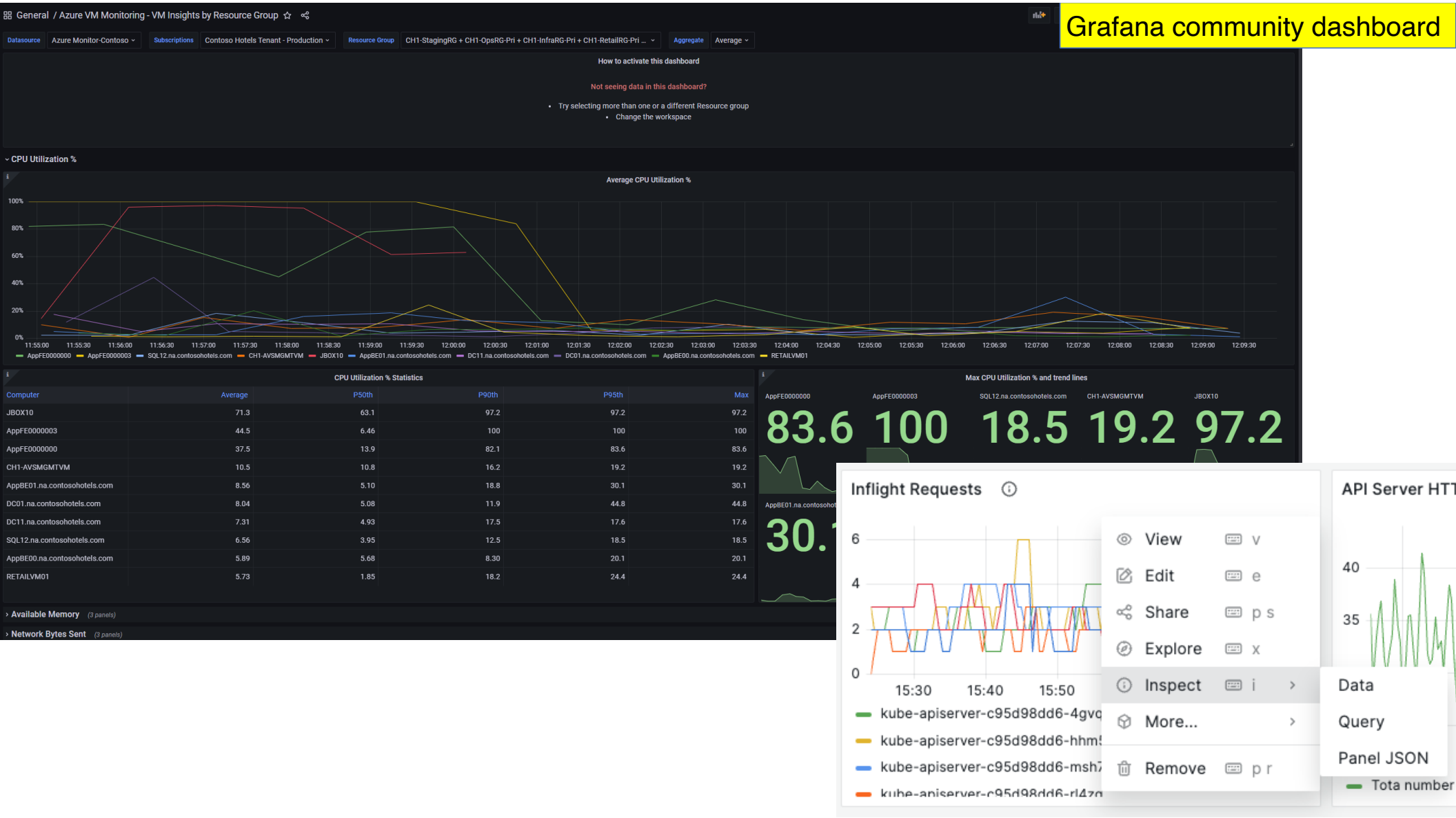
IBM Instana

https://play-with.instana.io/



https://play-with.instana.io/

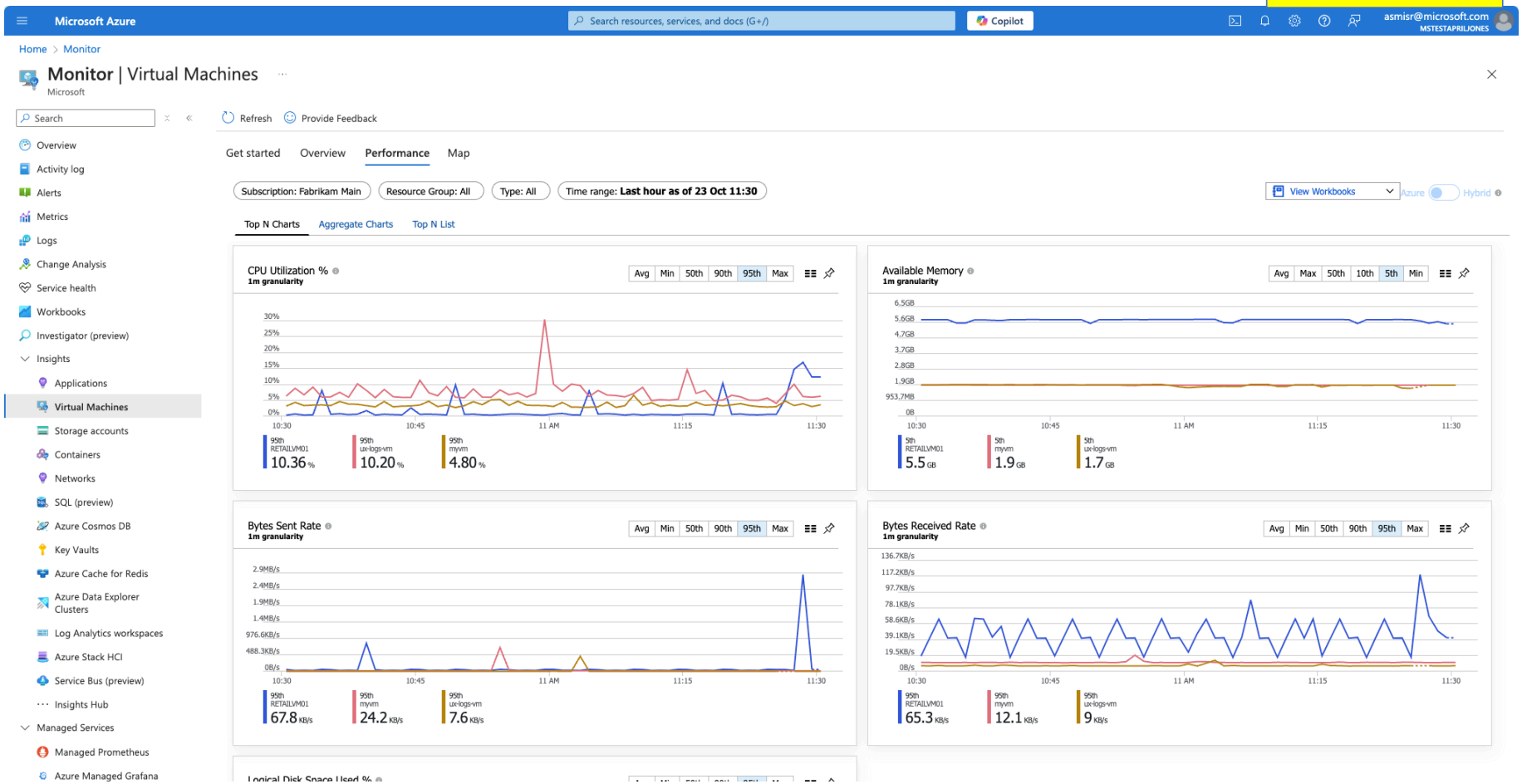
Grafana


General / Azure VM Monitoring - VM Insights by Resource Group
Grafana community dashboard
Datasource
Azure Monitor-Contoso
Subscriptions
Contoso Hotels Tenant - Production
Resource Group
CH1-StagingRG + CH1-OpsRG-Pri + CH1-InfraRG-Pri + CH1-RetailRG-Pri ...
Aggregate
Average
How to activate this dashboard
Not seeing data in this dashboard?
Try selecting more than one or a different Resource group
Change the workspace
CPU Utilization %
Average CPU Utilization %
100%
80%
60%
40%
20%
0%
11:55:00 11:55:30 11:56:00 11:56:30 11:57:00 11:57:30 11:58:00 11:58:30 11:59:00 11:59:30 12:00:00 12:00:30 12:01:00 12:01:30 12:02:00 12:02:30 12:03:00 12:03:30 12:04:00 12:04:30 12:05:00 12:05:30 12:06:00 12:06:30 12:07:00 12:07:30 12:08:00 12:08:30 12:09:00 12:09:30
AppFE0000000 AppFE0000003 SQL12.na.contosohotels.com CH1-AVSMGMTVM JBOX10 AppBE01.na.contosohotels.com DC11.na.contosohotels.com DC01.na.contosohotels.com AppBE00.na.contosohotels.com RETAILVM01
CPU Utilization % Statistics
Computer Average P50th P90th P95th Max
JBOX10 71.3 63.1 97.2 97.2 97.2
AppFE0000003 44.5 6.46 100 100 100
AppFE0000000 37.5 13.9 82.1 83.6 83.6
CH1-AVSMGMTVM 10.5 10.8 16.2 19.2 19.2
AppBE01.na.contosohotels.com 8.56 5.10 18.8 30.1 30.1
DC01.na.contosohotels.com 8.04 5.08 11.9 44.8 44.8
DC11.na.contosohotels.com 7.31 4.93 17.5 17.6 17.6
SQL12.na.contosohotels.com 6.56 3.95 12.5 18.5 18.5
AppBE00.na.contosohotels.com 5.89 5.68 8.30 20.1 20.1
RETAILVM01 5.73 1.85 18.2 24.4 24.4
Max CPU Utilization % and trend lines
AppFE0000000 AppFE0000003 SQL12.na.contosohotels.com CH1-AVSMGMTVM JBOX10
83.6 100 18.5 19.2 97.2
AppBE01.na.contosohotels.com
30.1
Available Memory (3 panels)
Network Bytes Sent (3 panels)
Inflight Requests
6
4
2
0
15:30 15:40 15:50
kube-apiserver-c95d98dd6-4gvq
kube-apiserver-c95d98dd6-hhm5
kube-apiserver-c95d98dd6-msh7
kube-apiserver-c95d98dd6-rl4zq
View v
Edit e
Share p s
Explore x
Inspect i
More...
Remove p r
Data
Query
Panel JSON
API Server HTT
40
35
Tota number

Azure Monitor

At scale experience not available

Azure Monitor



Design Quality issue - Viewer mode experience in Single Virtual Machine Insights (VMI).docx

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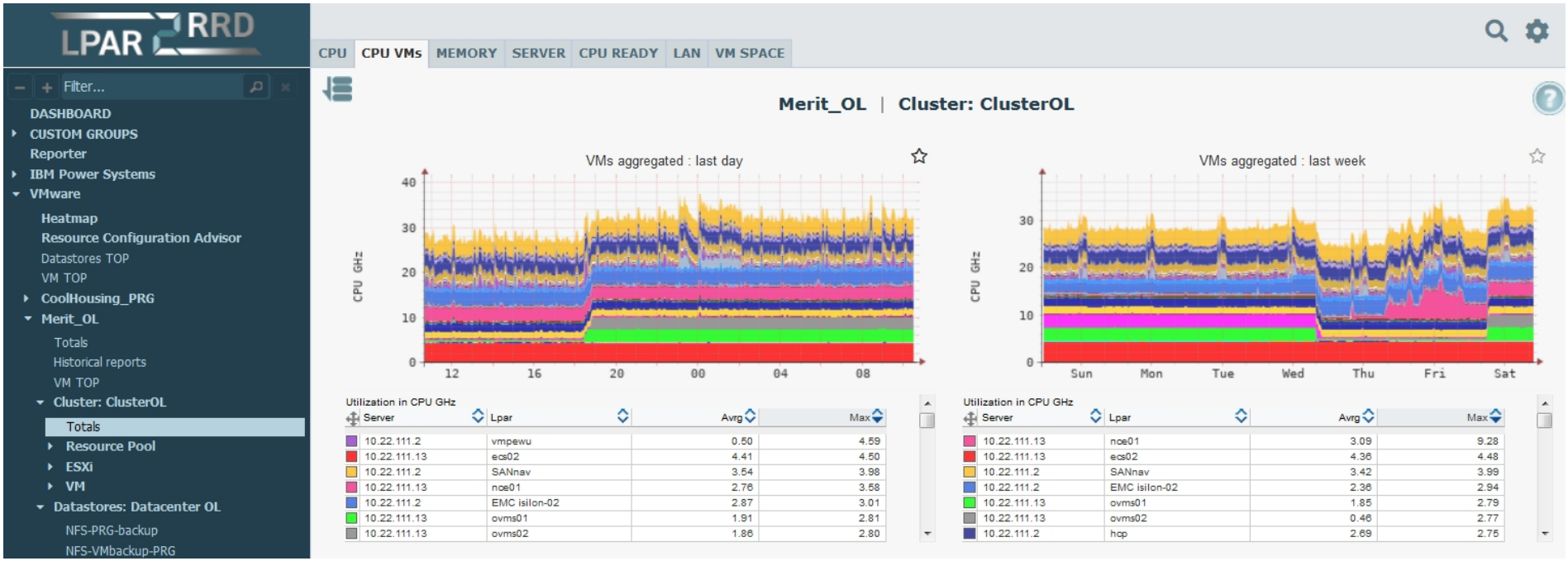
LPAR2RRD
CPU
CPU VMs
MEMORY
SERVER
CPU READY
LAN
VM SPACE
Filter...
DASHBOARD
CUSTOM GROUPS
Reporter
IBM Power Systems
VMware
Heatmap
Resource Configuration Advisor
Datastores TOP
VM TOP
CoolHousing_PRG
Merit_OL
Totals
Historical reports
VM TOP
Cluster: ClusterOL
Totals
Resource Pool
ESXi
VM
Datastores: Datacenter OL
NFS-PRG-backup
NFS-VMbackup-PRG
Merit_OL | Cluster: ClusterOL
VMs aggregated : last day
CPU GHz
40
30
20
10
0
12
16
20
00
04
08
VMs aggregated : last week
CPU GHz
30
20
10
0
Sun
Mon
Tue
Wed
Thu
Fri
Sat
Utilization in CPU GHz
Server
Lpar
Avrg
Max
10.22.111.2 vmpewu 0.50 4.59
10.22.111.13 ecs02 4.41 4.50
10.22.111.2 SANnav 3.54 3.98
10.22.111.13 noe01 2.76 3.58
10.22.111.2 EMC isilon-02 2.87 3.01
10.22.111.13 ovms01 1.91 2.81
10.22.111.13 ovms02 1.86 2.80
Utilization in CPU GHz
Server
Lpar
Avrg
Max
10.22.111.13 noe01 3.09 9.28
10.22.111.13 ecs02 4.36 4.48
10.22.111.2 SANnav 3.42 3.99
10.22.111.2 EMC isilon-02 2.36 2.94
10.22.111.13 ovms01 1.85 2.79
10.22.111.13 ovms02 0.46 2.77
10.22.111.2 hcp 2.69 2.75