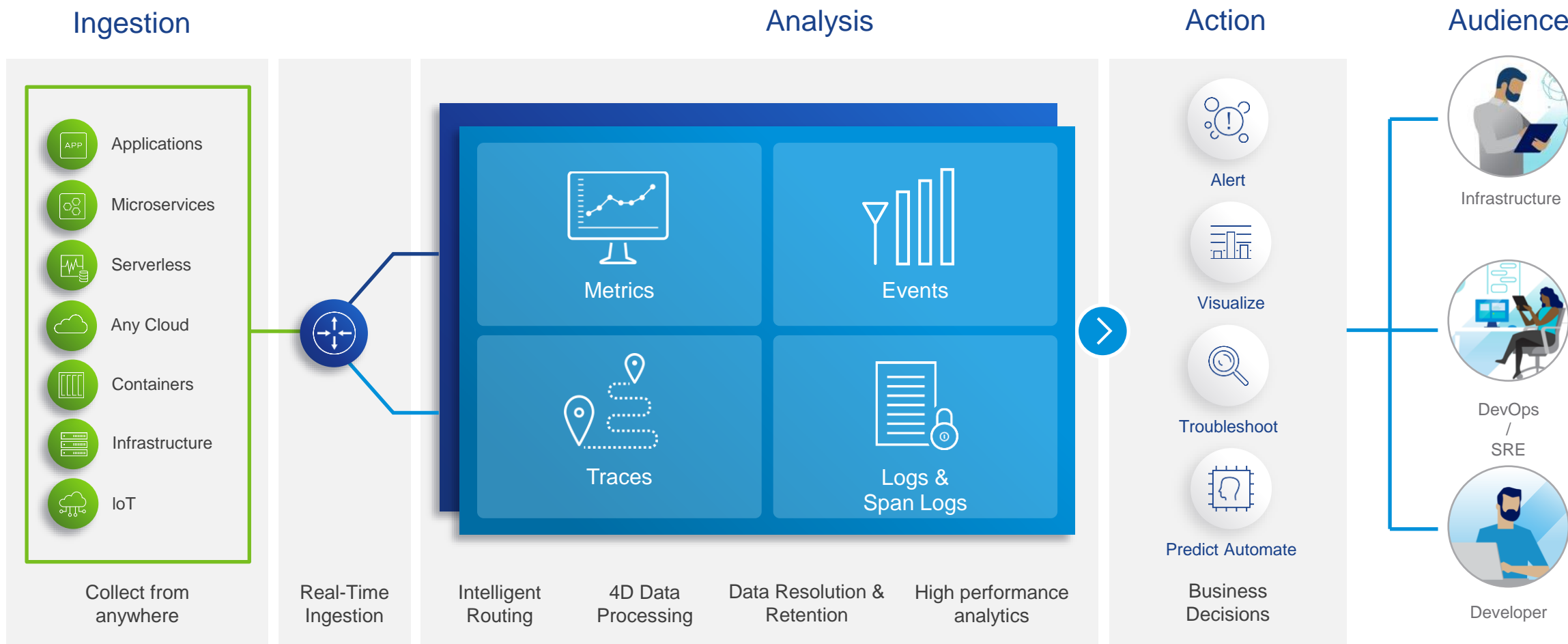


Aria Operations for Applications

Zakir Ali, SE Observability

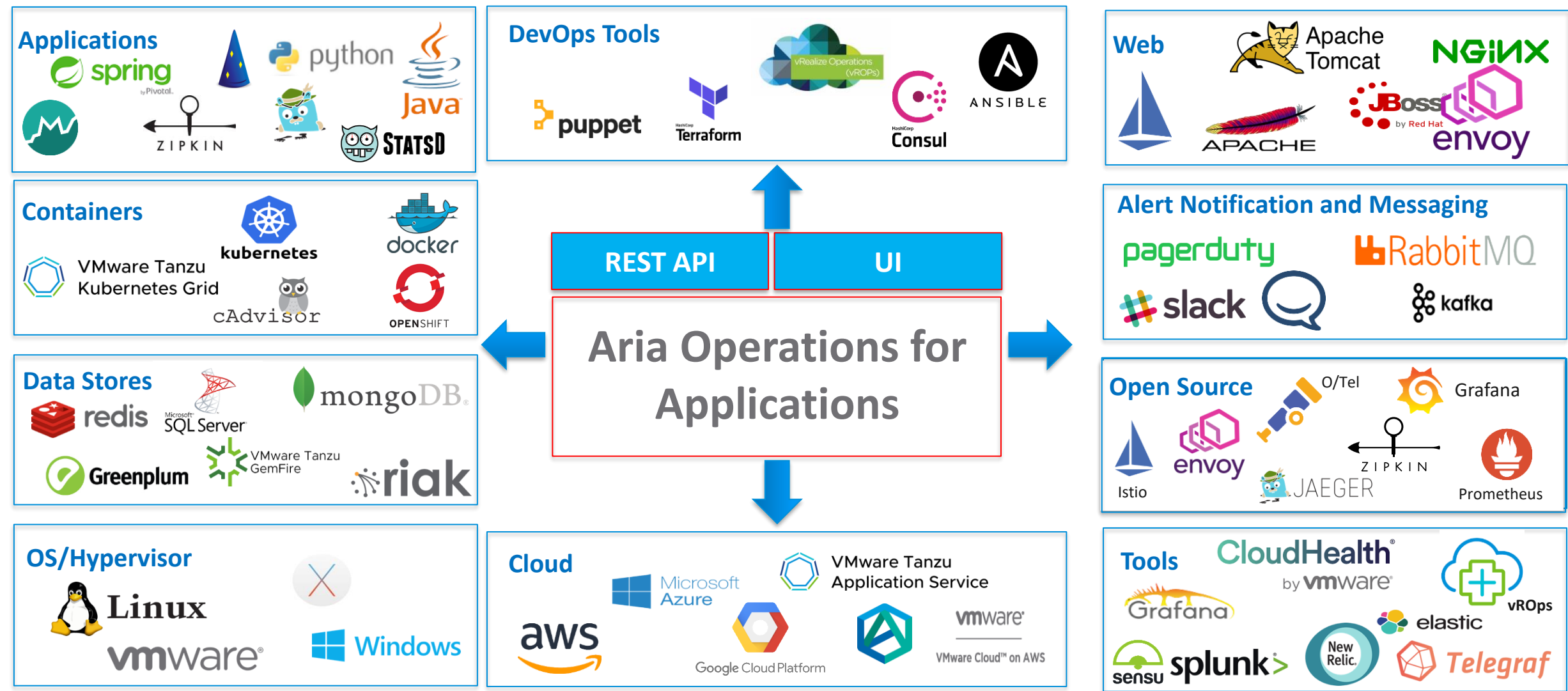
Aria Operations for Apps provides Enterprise Observability

Align stakeholders, drive collaboration and reduce MTTR

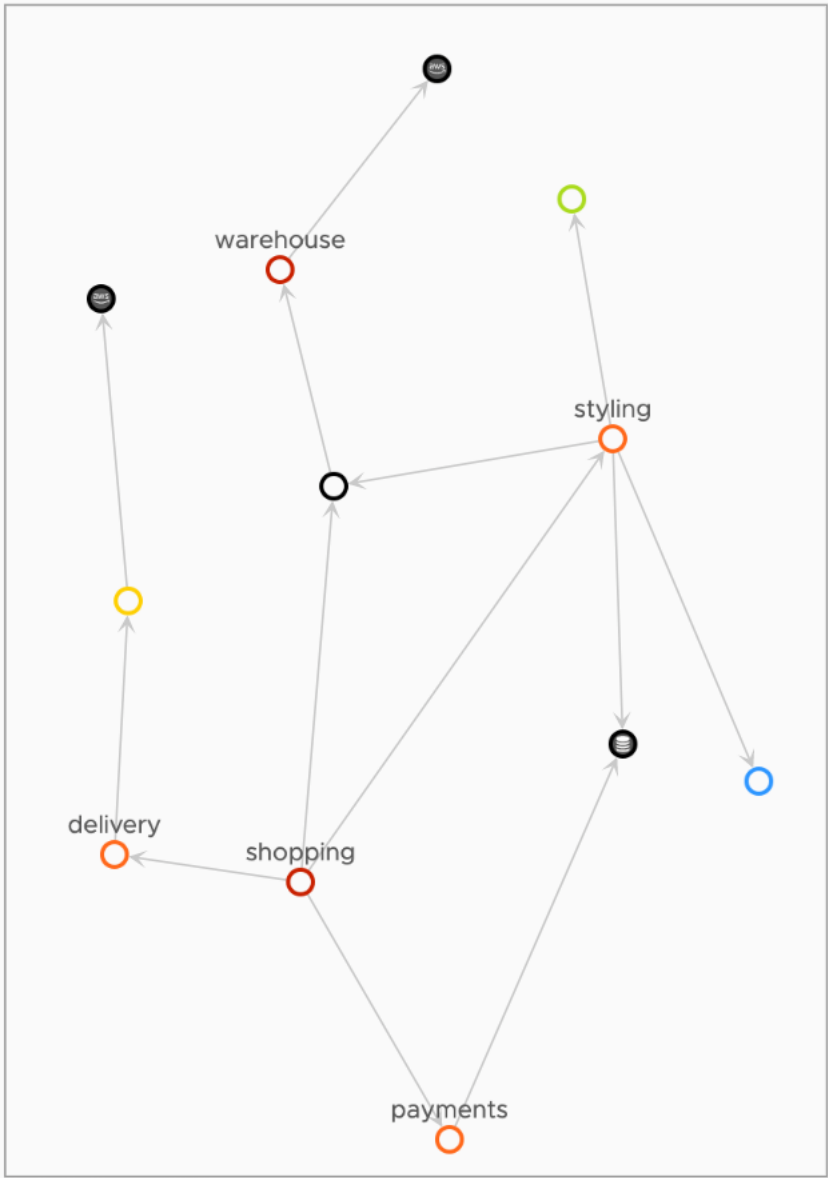


Aria Operations for Apps integrations

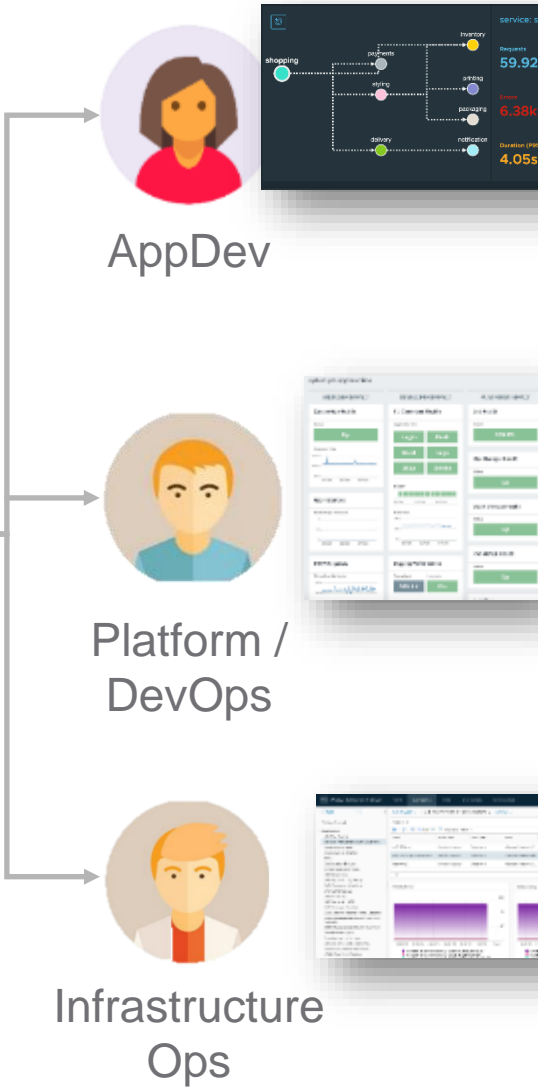
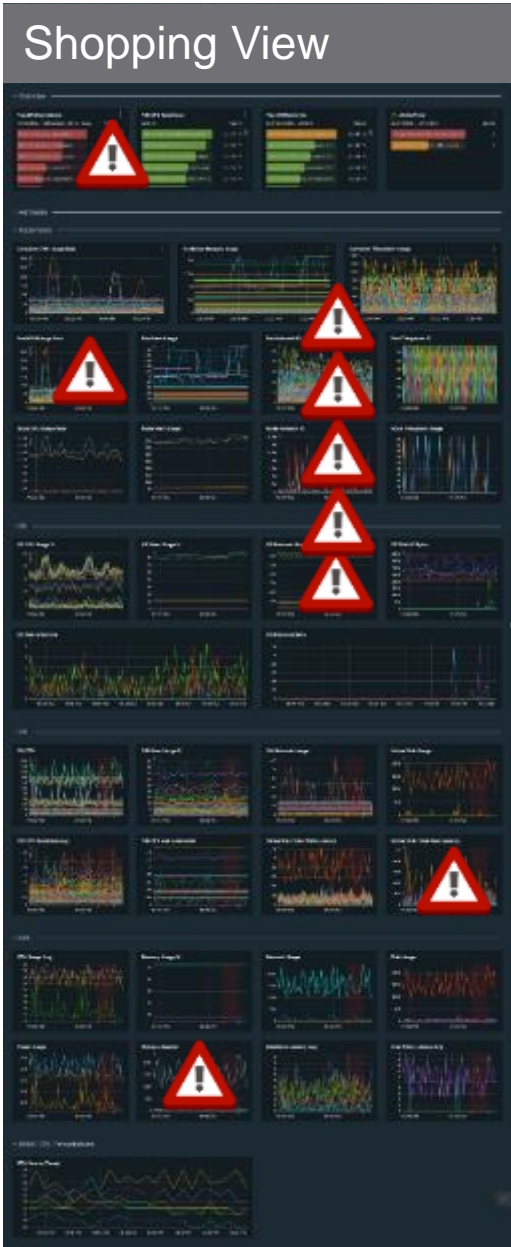
~250+ packaged integrations add new data sources for expanded opportunity



Aria Operations for Apps – Full Stack View



Collect
Visualize
Normalize
Correlate
Quickly Find



Demonstration

AOA Value Proposition

What we can deliver!

Unified Visibility



First Pane of Glass

Metrics, Events, Logs & Tracing supported with 250+ OOTB integrations & dashboards

End to End full stack visibility

Common language and platform used by Infra/Dev teams to drive collaboration

Integrations across all platforms to drive CI/CD automation

Advanced Correlation



Alert on anomalies

No need to predetermine what you are looking for - not rules based

AI Genie uses ML to automatically identify anomalous behaviour

Logging & Tracing insights combined with Infrastructure metrics aids troubleshooting

Accelerated Root Cause Analysis and Reduced MTTR

Reduced TCO



Decommission and rationalise legacy tooling estate

Simplify Operations with a reduced tool set and standardised views across teams

Accelerate Developer Velocity and improve availability using insights from Distributed Tracing

Fully integrated with Aria portfolio of tools

Reduce downtime

The Impact of Observability

Proactive response, early issue detection, operational simplicity – at lower costs



**80% MTTR
Reduction**
simplify team
collaboration



**10x Earlier
Issue Detection**
find hidden
problems earlier



Unified View
from app to infra
for all your clouds



**30%
Reduction**
on tooling
complexity



**5x Lower
Costs**
vs. traditional
tooling

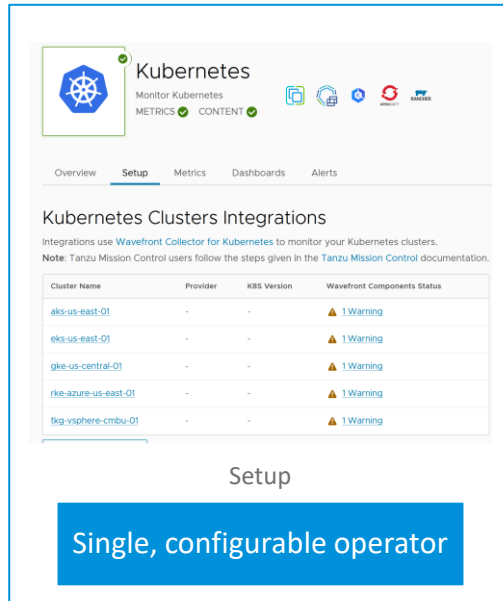


**200,000+
Containers**
industry's fastest
performance
80K containers at Reddit

Q&A

VMware Aria Apps

Observability for Kubernetes Simplified



Kubernetes
Monitor Kubernetes
METRICS CONTENT

Overview Setup Metrics Dashboards Alerts

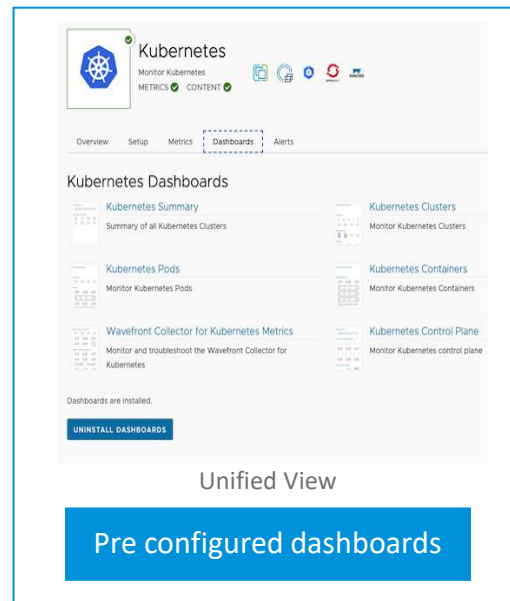
Kubernetes Clusters Integrations

Integrations use [Wavefront Collector for Kubernetes](#) to monitor your Kubernetes clusters.
Note: Tanzu Mission Control users follow the steps given in the [Tanzu Mission Control](#) documentation.

Cluster Name	Provider	K8S Version	Wavefront Components Status
aks-us-east-01	-	-	1 Warning
eks-us-east-01	-	-	1 Warning
gke-us-central-01	-	-	1 Warning
rke-azure-us-east-01	-	-	1 Warning
tkg-vsphere-cmbu-01	-	-	1 Warning

Setup

Single, configurable operator



Kubernetes
Monitor Kubernetes
METRICS CONTENT

Overview Setup Metrics Dashboards Alerts

Kubernetes Dashboards

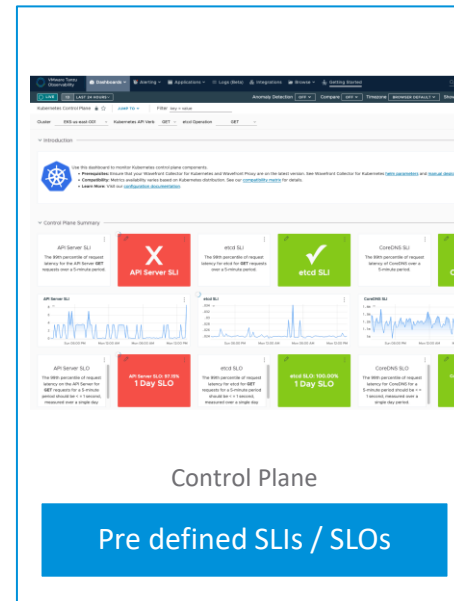
- Kubernetes Summary: Summary of all Kubernetes Clusters
- Kubernetes Clusters: Monitor Kubernetes Clusters
- Kubernetes Pods: Monitor Kubernetes Pods
- Kubernetes Containers: Monitor Kubernetes Containers
- Wavefront Collector for Kubernetes Metrics: Monitor and troubleshoot the Wavefront Collector for Kubernetes
- Kubernetes Control Plane: Monitor Kubernetes control plane

Dashboards are installed.

UNINSTALL DASHBOARDS

Unified View

Pre configured dashboards



Kubernetes
Monitor Kubernetes
METRICS CONTENT

Overview Setup Metrics Dashboards Alerts

Kubernetes Alerts

INSTALL ALL

K8s pod CPU usage too high [preview](#)

Alert reports when the CPU millicore utilization of a pod exceeds the CPU millicore limit defined constantly. Having the CPU going over 1 throttling which is going to affect the pod's performance. When this happens, please make sure the CPU resource limitation set for the

K8s pod memory usage too high [preview](#)

Alert reports when the memory utilization of a pod is constantly at high percentage.

K8s too many pods crashing [preview](#)

Alert reports when a pod's running and succeeded phase percentage is below the required level specified.

K8s node CPU usage too high [preview](#)

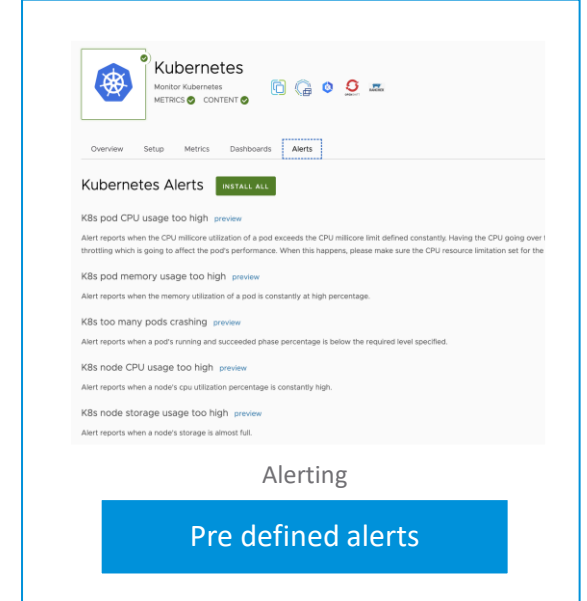
Alert reports when a node's cpu utilization percentage is constantly high.

K8s node storage usage too high [preview](#)

Alert reports when a node's storage is almost full.

Control Plane

Pre defined SLIs / SLOs



Kubernetes
Monitor Kubernetes
METRICS CONTENT

Overview Setup Metrics Dashboards Alerts

Kubernetes Alerts

INSTALL ALL

K8s pod CPU usage too high [preview](#)

Alert reports when the CPU millicore utilization of a pod exceeds the CPU millicore limit defined constantly. Having the CPU going over 1 throttling which is going to affect the pod's performance. When this happens, please make sure the CPU resource limitation set for the

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K8s node CPU usage too high [preview](#)

Alert reports when a node's cpu utilization percentage is constantly high.

K8s node storage usage too high [preview](#)

Alert reports when a node's storage is almost full.

Alerting

Pre defined alerts