



Zabbix in Action: Proven Results Across Industries

Real-world success stories showcasing Zabbix's effectiveness in tackling critical business challenges.

ZABBIX
PREMIUM PARTNER

INDUSTRY USE-CASE

Federal Gov't Agency

A large Federal Integrator providing Storage/Compute as a service and looking to simplify their capacity and performance monitoring without breaking the bank.



Problem

- Provide storage/compute as a service for the government.
- Strict regulatory and SLO oversight
- Inexperienced customer



Challenges

- No magic unicorn
- Wide variety of types of equipment
- Moving goal posts



Solution

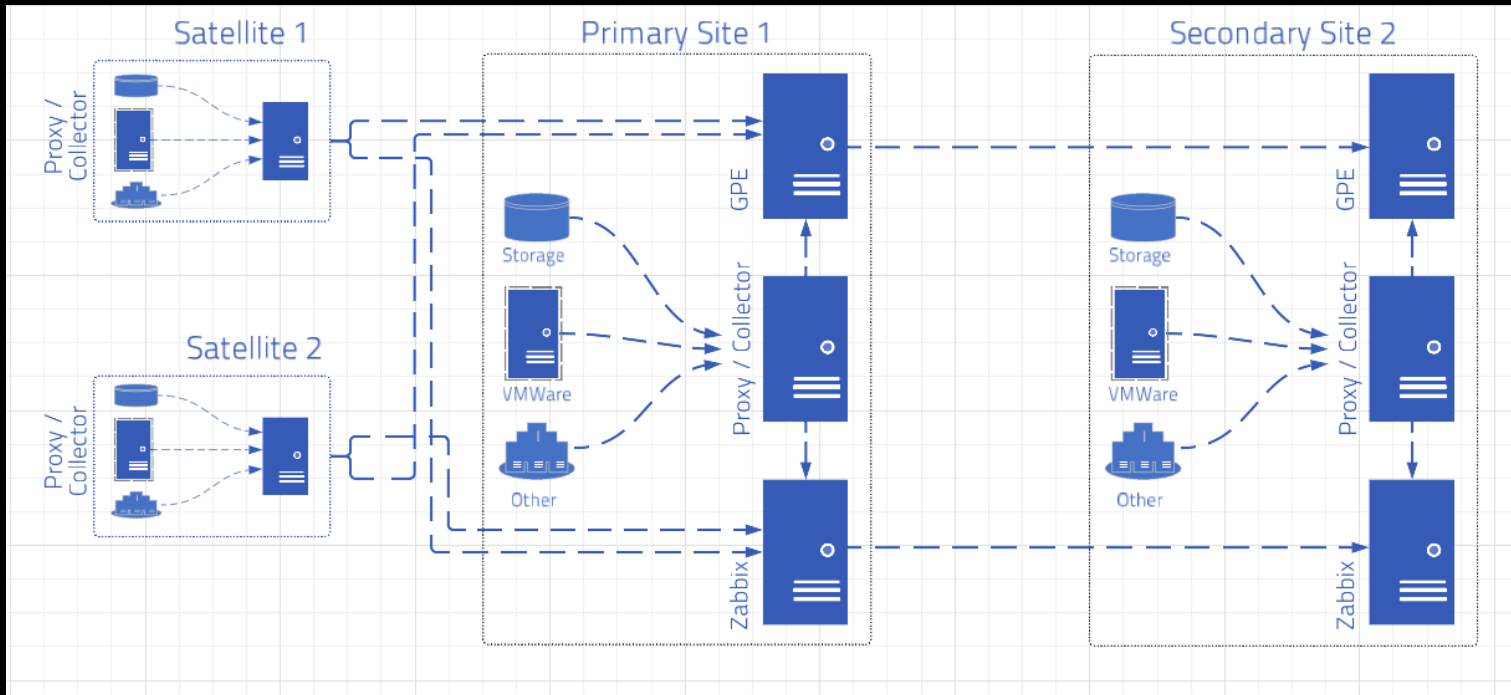
- Distributed Proxies
- SLA Reporting
- SNOW Integration
- Internal Integrations



Outcome

- Flexible monitoring
- Predictive alerting
- Easy Maintenance
- Happy end customers





Overview

Integrated Architecture

- Focus on integrations
- Consumption data
- Zabbix Control
- Report Generation

Capacity and Compute

- I/Os per second (IOPS)
- Throughput in MB/s – SAN
- Throughput in MB/s – Ethernet
- Read/write ratio
- Latency
- Sequential versus random read/write
- Read and write cache hit ratio
- LUN identifications and mapping
- Total raw disk space storage
- Provisioned disk space
- Disk space capacity remaining
- Disk space overcommit
- Disk space deduplication and compression
- Disk I/O
- Cache Memory
- SAN port (ISL) usage
- LUN identifications and mapping
- Compute RAM usage
- Compute processor/core usage
- Total Raw CPU in cores and hertz
- CPU in cores, hertz and % allocated
- Provisioned vCPUs
- Number of physical CPUs
- vCPUS to physical CPUs
- CPU overcommit
- Total raw memory
- Memory allocated
- Memory available
- Memory overcommit

30+

Metrics in compliance

10+

Different technologies

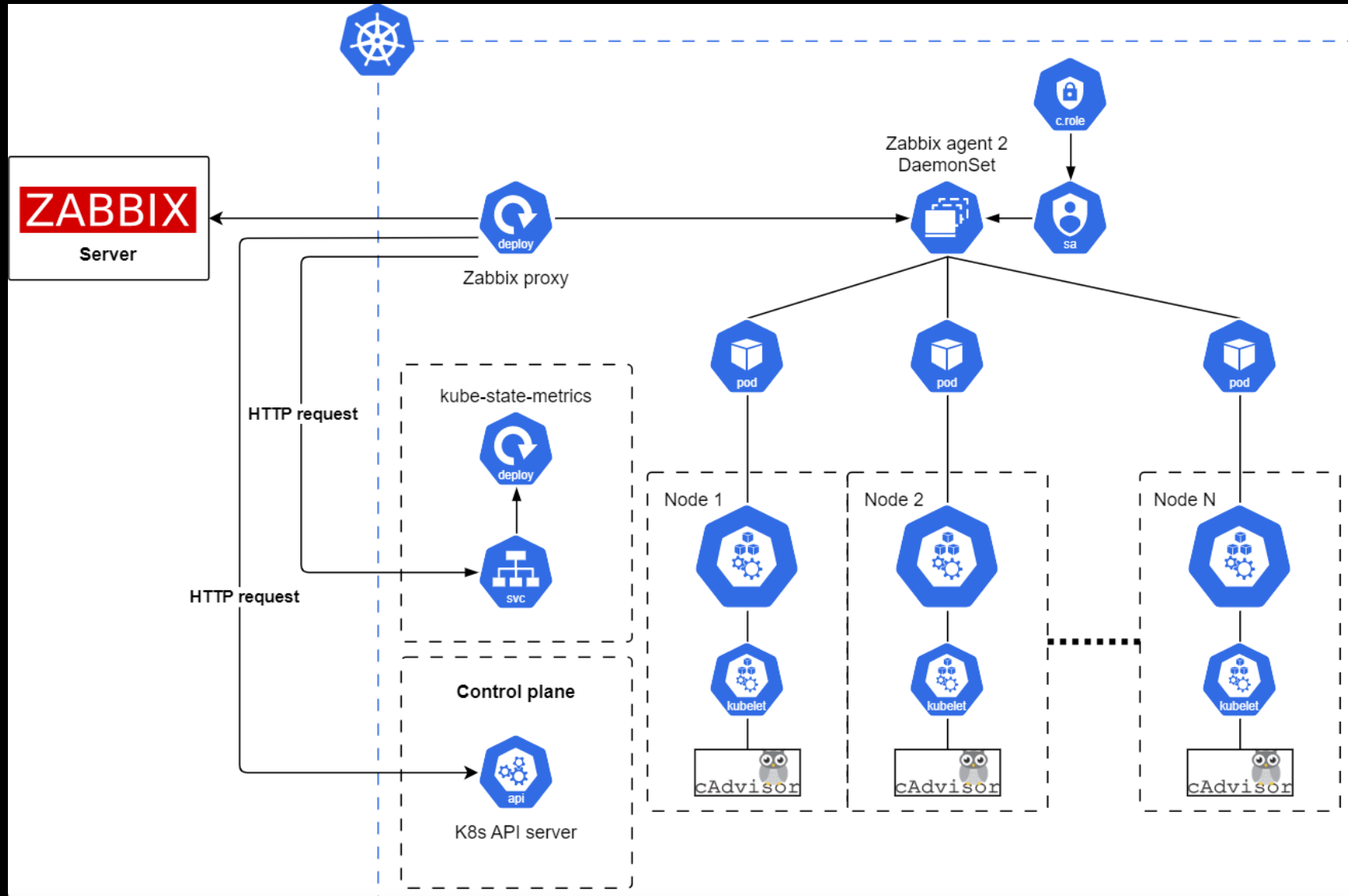
6+

Reports generated

1T+

Data points

Zabbix / Openshift [k8s]



How: Kubernetes + Zabbix?

Deployment via Helm Chart

- Installs Zabbix components (proxy, agent) as Kubernetes resources.
- The agent monitors node-level resources and applications.
- The proxy aggregates data and sends it to the Zabbix server.

Data Collection

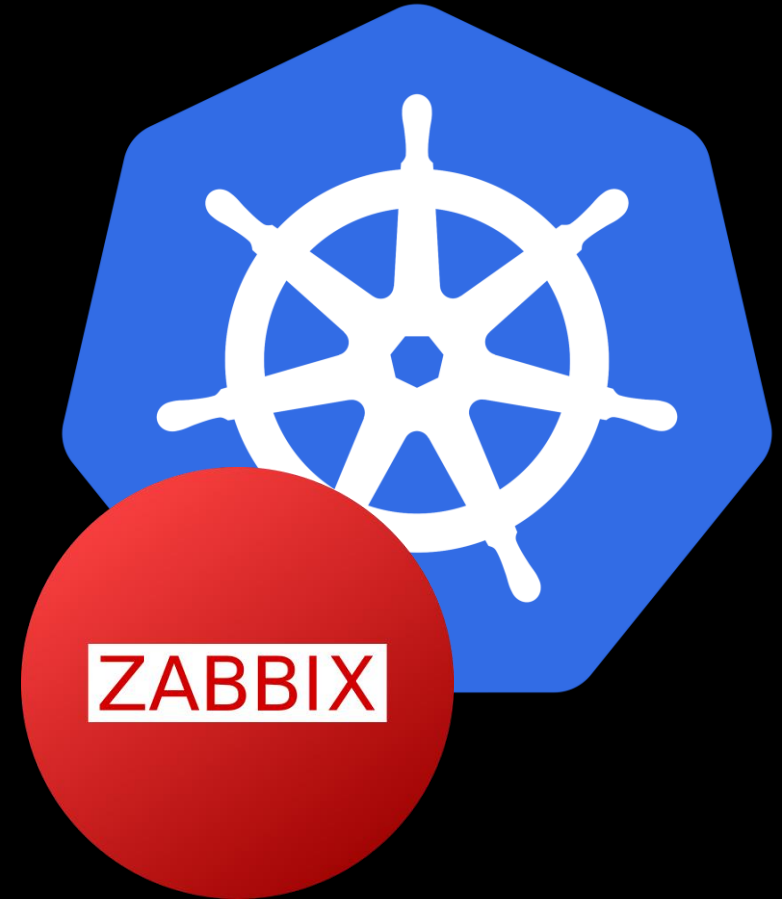
- Collects metrics via Kubernetes API and kube-state-metrics.
- Utilizes Prometheus-exported metrics or direct HTTP endpoint calls.

Configuration

- Proxies and hosts are created in Zabbix to represent Kubernetes nodes and clusters.
- Templates and macros are configured to point to the Kubernetes API and kube-state-metrics endpoints.

Integration Advantages

- Centralized monitoring of Kubernetes alongside other IT resources.
- Supports application-specific metrics without requiring Prometheus endpoints.
- Offers flexibility to customize and scale.



Zabbix | Kubernetes

Technology	Link	Why?
Zabbix Helm Chart	Link	Zabbix helm chart with helpful installation information
Zabbix Kubernetes Overview	Link	Zabbix Blog written by ATS Zabbix Engineers
Zabbix Kubernetes Overview Pt2	Link	Zabbix Blog written by ATS Zabbix Engineers
Zabbix Kubernetes Overview Pt3	Link	Zabbix Blog written by ATS Zabbix Engineers
Zabbix Meetup	Link	Zabbix meetup discussing Kubernetes

CONTACT INFORMATION

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ATS: Solving the problems others can't.

 **Thank You**

Questions?