Solution Brief

virtana

Virtana Compute Observability for Enterprise Servers

Key Challenges Addressed

> Lack of application awareness

Infrastructure monitoring tools do not understand your applications. Application performance is continually impacted by workload drift across the infrastructure

> Monitoring tools lack fidelity and full-stack visibility

Sampling at 5, 10, or 15-minute intervals prevents visibility of intermittent performance issues that impact the user experience

> Monitoring tools traditionally overwhelm executives with data

Typical infrastructure performance monitoring dashboards do not meet the "information at a glance" needs of IT executives

> IT War Room is too prevalent

Lack of application visibility across infrastructure silos results in finger- pointing and never-ending war rooms

> Alerts gone wild

Infrastructure teams are overwhelmed with too many alerts, with little to no ability to prioritize based on business value. As a result, alerts are often ignored as "white noise" due to a lack of perceived value or even worse, turned off altogether

> Rampant over-provisioning

Without proper visibility, overprovisioning of hardware (compute, network and storage) to manage risk of performance issues is rampant

Deep Compute Observability for Enterprise Servers

Virtana compute observability for Enterprise Servers is part of the Virtana hybrid infrastructure observability platform.

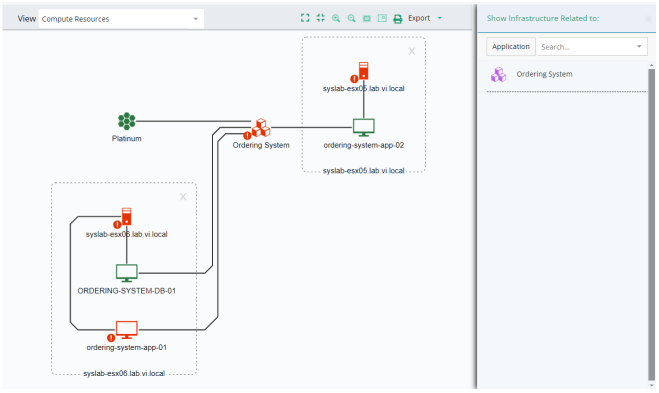


Figure 1: Discovery and dependency mapping of application-supporting compute resources

Virtana Platform for Enterprise Servers provides critical monitoring & analytic capabilities

Monitoring and analytics for problem resolution, capacity management and workload automation across virtual hosts and entire application stacks

- **Speed problem resolution:** Full virtual host environment and application discovery, mapping, topology and best practice dashboards combine with immediately actionable, real-time AI-powered recommendations to resolve problems fast and stop the finger pointing

- **Ensure resource availability:** AI and trend-based predictive capacity management based on the most granular, longest term data sets in the industry helps organizations to avoid capacity-driven problems before they can happen across the host environment as well as the full application stack

- **Automate workload optimization:** Real-time, AI-driven workload optimization recommendations based on Virtana's many years of real- world experience preventing downtime

Automated application and VM host environment discovery, mapping, monitoring and displays

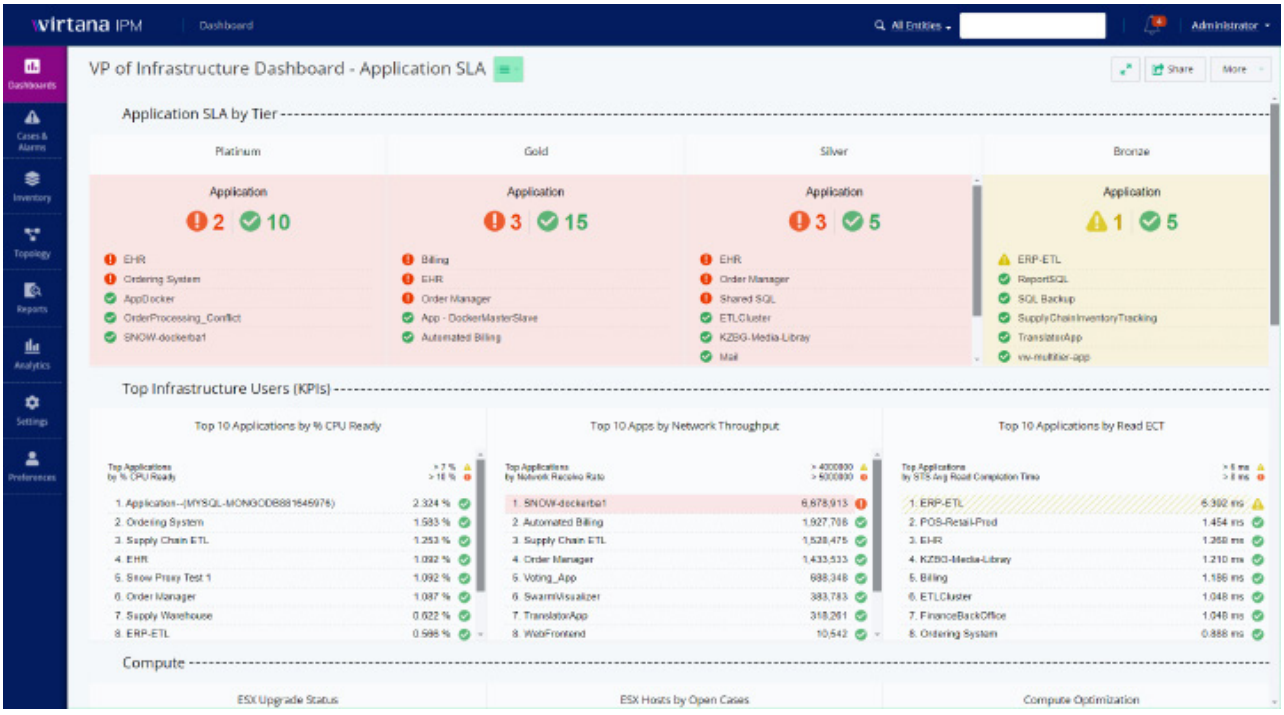
- Quickly understand the state of your virtual host environments and the applications that they support.
- Integration with ServiceNow, AppDynamics and DynaTrace brings in the basic map of applications running within the virtual host. AI and heuristics applied to the this data and the virtual host environment result in detailed topologies and maps of applications and services that depend upon it.
- Once discovered, automatically applied monitoring, topology, dashboards and reports - honed with AI and multiple statistical methods - are available to give immediate value.

Identify and resolve performance issues without the need for a war room.

- Best practice, automatically applied monitoring thresholds, alarms and dashboards immediately help to identify root causes of problems – within the virtual host, underlying infrastructure or within wider application environments.
- The most granular, long-term datasets available combined with runbook style automated investigations proactively identify problems that other solutions can't even identify.
- AI-powered recommendations that integrate easily with ITSM solutions such as ServiceNow enable quick resolution of the problem once identified – And include tools that enable automation of problem resolution.

Maximize the use of virtual server assets without fear of overrunning capacity

- Get maximum visibility into trends and usage patterns with monitoring data collected at the most granular level available, and stored for the longest periods of time in the industry.
- Predictive insights powered by AI and statistical methods, and supported with our application-focused, granular long-term data sets enable accurate capacity planning for all the infrastructure elements running within virtual host environments.



Compute Observability for Enterprise Servers

KEY FEATURES

		Discovery & Mapping	Agentless Monitoring	Performance Metrics	Capacity Metrics	Best Practice Alarming	Custom Alarming	Intelligent Problem Resolution
Operating System On Premises	Windows, Linux, and Kubernetes	✓	Compute, Memory, Network, Storage, FC health, FC utilization	✓	✓	✓	✓	Guided Investigations
Virtualization	vSphere	✓	Compute, Memory, Network, Disk I/O	✓	✓	✓	✓	Guided Investigations
	Hyper-V	✓	CPU, Memory, Network, Disk IO, Volume, Memory	✓	✓	✓	✓	Guided Investigations
	PowerVM	✓	CPU, Memory, Network, Disk I/O req and capacity, from LPAR to host to LUN	✓	✓	✓	✓	Guided Investigations
	KVM	✓	CPU, Memory, Network, Disk IO, Volume	✓	✓	✓	✓	Guided Investigations

		AIOps Driven Analytics			
		Discovery & Mapping	Agentless Monitoring	Performance Metrics	Capacity Metrics
Operating System On Premises	Windows, Linux, and Kubernetes	✓	✓	✓	✓
Virtualization	vSphere	✓	✓	✓	✓
	Hyper-V	✓	✓	✓	✓
	PowerVM	✓	✓	✓	✓
	KVM	✓	✓	✓	✓