# Solution Brief

### 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 fullstack 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: Al 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, Al-driven workload optimization recommendations based on Virtana's many years of real- world experience preventing downtime

## wirtana

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. Al 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.
- Al-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.

tana PM	Dashboard				C ALEIDRES -	Administra
VP of Infras	structure Dashboard - A	Application SLA	= 1			💒 🔡 Share Mon
Applicat	ion SLA by Tier					
	Platinum		Gold	Silver		Bronze
	Application		Application Application		n i	Application
	10		3 915	03 🔇	5	🔒 1 🔮 5
0 EHR		Biling		e ehr		ERP-ETL
O Ordering Sk	stem	O EHR		Order Manager		ReportSQL
AppDocker		Order Manage		Stared SQL		SOL Backup
CederProce	wing Conflict	App - DockerM	asterSlave	ETL Cluster		Supply Chain Inventory Tracking
SNOW.dot	what	Automated Bill		KZEG. Media Libray		Translaterdage
				S Mail		vw-multilier-app
Top Infr	Top 10 Applications by % CPU Rea	ıdy	Төр 10 Арр	s by Network Throughput	т	op 10 Applications by Read ECT
Top Applications by % CPU Roady		27% A	Top Applications by Notwork Racolvo Rato	> 4000800 > 5000800	Top Applications by STS Arg Road Complet	ion Time > 8 a
1. Application	-(MYSQL-MONGOD8881646976)	2 324 %	1. SNOW-dockerbe1	6.678.913	0 1.ERP.ETC/////	6.302 m
2. Ordering St	Istern	1.583 %	2. Automated Billing	1.927.708	2. POS-Retail-Prod	1.454 m
3. Supply Chr	in ETL	1.253 % 🥥	3. Supply Chain ETL	1,520,475	3. EHR	1.268 m
4. EHR		1.092 %	4. Order Manager	1,433,533	4. KZBO-Media-Libra	y 1.210 m
5. Snow Pres	Test 1	1.092 % 🥑	5. Voting_App	638,348	5. Billing	1.186 m
6. Order Marv	nger	1.087 % 🥥	6. SwarnWsuakzer	383,783	6. ETLCluster	1.048 m
7. Supply War	ehouse	0.022 %	7. TranslatorApp	318,261	7. FinanceBackOffice	1.048 ms
8. ERP-ETL		0.588 % 🥑 -	8. WebFrontend	10,642	😏 👻 8. Ordering System	0.888 m
Comput	e					

#### **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	$\checkmark$	Compute, Memory, Network, Storage, FC health, FC utilization	~	$\checkmark$	~	$\checkmark$	Guided Investigations
Virtualization	vSphere	~	Compute, Memory, Network, Disk I/O	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	Guided Investigations
	Hyper-V	$\checkmark$	CPU, Memory, Network, Disk IO, Volume, Memory	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	Guided Investigations
	PowerVM	$\checkmark$	CPU, Memory, Network, Disk I/O req and capacity, from LPAR to host to LUN	~	$\checkmark$	~	$\checkmark$	Guided Investigations
	KVM	$\checkmark$	CPU, Memory, Network, Disk IO, Volume	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	Guided Investigations

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



🔀 info@virtana.com | 🕀 +1-888-522-2557 | 📎 virtana.com

©2025 Virtana. All rights reserved. Virtana is a trademark or registered trademark in the United States and/or in other countries. All other trademarks and trade names are the property of their respective holders. [0924-03]/

