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Virtana and SaltStack Solution Brief

Enabling Intelligent Automation for Software-Defined Data Centers

Solution Highlights:

Monitor As You Deploy

- Cut time to production by 99%. The Virtana-SaltStack integration configures monitoring in every deployment workflow, dynamically mapping new devices to applications.
- DevOps teams can deploy continuously knowing their output is automatically integrated into a (fully monitored) production operations environment.

Eliminate Noise, Delays and Errors

- Reduce alert noise by up to 99.9975%, leveraging model-informed machine learning to isolate actionable events and delivering intelligent automation to eliminate delays and downtime costs.
- Coordinate automated shifts from production to maintenance mode — reduce false alerts for IT Ops during system maintenance and return to active monitoring upon return to production mode.

Remediate in Real Time

- Automate responses to performance issues, providing business-critical, intelligent remediation triggered by automated event creation, consumption and diagnosis.
- Monitor configuration vulnerability alerts as system events, ensuring infrastructure security compliance.

Automate Capacity Scaling

- Enable auto-scaling of data center capacity, guaranteeing the health and security of critical IT services that drive modern businesses.

Virtana & SaltStack

Virtana provides the leading secure, SaaS-based deep infrastructure monitoring platform for the world's largest organizations. It delivers the ultimate level of service health by providing insights from the most granular and intelligent infrastructure relationship modeling possible, at any scale, and sharing those unique insights with other ITOM tools.

Virtana dynamically maps which resources belong to which services, even as services are moved. This gives

SALTSTACK®

operations an accurate and up-to-date line of sight into the health of a service and its supporting infrastructure. The elimination of blind spots both across the enterprise and deep within infrastructure resources allows operations to zero in on compromised resources long before they affect users, critical services or the bottom line.

SaltStack provides intelligent orchestration software for management of any infrastructure or application stack at scale. SaltStack develops the only systems management solution built on an event-driven remote execution platform. It is used by IT operators and DevOps engineers for intelligent configuration of complex data center infrastructure and applications, cloud management, container orchestration, and automated system security compliance.

The integration between Virtana and SaltStack combines hybrid IT monitoring and analytics with predictive orchestration and configuration management for virtualized and software-defined IT environments and is the first integrated solution to enable the autonomic software-defined data center.

Virtana & SaltStack: Technical Details

As leading organizations across all industries adopt digital transformation initiatives, the demands on IT teams are growing exponentially. The Virtana and SaltStack platforms offer unprecedented automation capabilities, eliminating the delays, errors and downtime costs associated with manual response to ensure real-time health and performance for services that power digital transformation.

The integration automatically sets up monitoring when new servers are deployed, with SaltStack setting up the precise monitoring needed based on each server's configuration. Regardless of what is being deployed (e.g., web server, application server, database server, etc.), it is production-ready as soon as it is operational.

Virtana instantly discovers the new service and starts watching forissues, creating service desk tickets automatically withoutany manual engagement. This is particularly powerful whenIT leverages Virtana' integrations into other ITOM solutionssuch as ServiceNow. Additionally, Virtana automatically triggers change reports using the latest SaltStack enterprise API, enabling IT to immediately fix the problem before it becomes a larger issue.

Share Insights & Coordinate Remediation With Other ITOM Systems

Virtana delivers IT resource monitoring to all parts of an organization's IT infrastructure — physical, virtual or in the cloud— and is extensible by anyone through a plug-in architecture using Integrations.

No matter which IT tools help your company succeed, the only way to ensure you're getting maximum value from them is to connect them and create efficiencies that cannot be achieved by the individual parts.

Virtana out-of-box integrations with these key ITOM systems

- Incident Management
- CMDB
- Orchestration & Provisioning
- AIOps
- Log Analytics
- Application Performance Monitoring
- Network Performance Monitoring
- Unified Communications Monitoring
- BI & Analytics

Virtana-SaltStack Integration Capabilities

The Virtana-SaltStack integration automates response to infrastructure and application performance issues, providing intelligent remediation triggered by event creation, consumption and diagnosis. Through automatic

deployment, configuration and monitoring of Virtana service relationships, SaltStack enables auto-scaling of data center capacity. This is a unique and significant advancement in guaranteeing the health and security of IT services that drive modern businesses.

The integration offers:

- Automation of day-one monitoring for server deployment and configuration
- Autonomous scaling of data center capacity based on system events
- Intelligent system remediation triggered by event creation, consumption and diagnosis
- Monitoring configuration vulnerability alerts as system events for infrastructure security compliance
- Monitoring for the entire enterprise IT infrastructure, including cloud, virtual and physical IT environments
- Coordination of automated shifts from production to maintenance mode — reducing false alerts for IT Ops during system maintenance and returning to active monitoring upon return to production mode

Virtana & PagerDuty: Key Benefits

Reduce event noise by **99.9975%**
Reduce mean time to resolution (MTTR) by **85%**
Reduce monitoring software licensing by **90%**
Increase IT administration productivity by **50%**