Trento: Frequently Asked Questions

A feature of SUSE Linux Enterprise Server for SAP Applications

March 2022

What is Trento?

Trento is a cloud-native web-based console for system administrators to safeguard SAP workloads on SUSE Linux-based systems. It automatically discovers the SAP systems in an organization's landscape. Trento also includes the ability to monitor the infrastructure – on-premises and cloud – and the SAP HANA databases, identify potential errors, provide alerts, and apply recommended fixes. It is based on the open source Project Trento (www.trento-project.io) initiated by SUSE.

What are the capabilities of Trento?

The initial release of Trento focuses on identifying and fixing errors with high availability configurations and SAP system monitoring. This includes:

- Automatic comprehensive discovery of SAP system elements, displayed in SAP domain language

- Continuous checking of cloud and server high availability configurations against documented best practices in SAP Notes

- Color-coded visualization of potential problems and links to relevant documentation, including SAP Notes

- Recommended fixes including command-line operations with a simple copy and paste, when possible

- Monitoring of SAP landscapes, including high availability clusters, with alerting

What problems does Trento solve?

Trento helps with the following common challenges with deploying and managing SAP NetWeaver and SAP S/4HANA services:

- SAP system high availability can be complex to configure and there are over 100 pages of SAP Notes

- IT staff that is transitioning from SAP ECC applications on Windows Server may lack experience with SAP S/4HANA on Linux in the cloud or on-premises

- Even System Integrators with extensive experience installing SAP applications make mistakes with high availability configurations

- Without a clear understanding of which systems are for SAP services, it is more likely that incorrect maintenance patches or system restarts could be applied to mission-critical systems

Organizations have faced critical downtime events due to errors in the configuration of new SAP clusters, or incorrect changes in existing configurations. Trento checks to be sure that high availability configurations of SAP systems are supported and set up correctly.

What system elements does Trento discover?

Trento discovers and displays relationships of the full SAP stack including:

- Servers and cloud instances with the SUSE Linux Enterprise Server for SAP Applications operating system

- SAP HANA databases, SAP NetWeaver applications, and SAP S/4HANA applications

- High availability clusters

Discovering systems associated with non-SAP workloads are outside the scope of Trento.

Can I customize the views and alerts that I get from Trento?

This capability is planned for a future release. Fully-customized views and alerts are possible today with SLES for SAP Applications using the Prometheus exporters with Alert Manager and Grafana dashboards as a standalone application.

How is Trento installed?

The Trento Server is installed separately from SUSE Linux Enterprise Server for SAP Applications on a Kubernetes host or cluster. It is supported on any recent Kubernetes distribution that is CNCF certified where upstream release is under upstream support, including SUSE Rancher RKE and RKE2. For evaluating Trento, SUSE recommends starting with K3s, a minimal Kubernetes environment that can be deployed on a single virtual machine (VM).

Is the Trento server only available as container image?

The server components of Trento are only available as container images, which are installed by a helm chart.

What resources does the Trento agent require?

The agent uses minimal resources. No resizing is required for the SAP application and SAP HANA database servers.

Is a separate subscription required for Trento?

All current and new subscriptions to SUSE Linux Enterprise Server for SAP Applications include an entitlement to deploy and use Trento.

How is Trento different from SAP Solution Manager monitoring and other SAP offerings such as SAP EarlyWatch and SAP GoingLive?

Trento complements the SAP monitoring and checking tools with a focus on the infrastructure at the OS level as well as high availability cluster checks.

Can users extend the Trento rulesets?

The ability to customize existing checks and add a catalog of checks is planned for a future release.

Is Telemetry required for Trento operation?

Trento collects a minimal set of telemetry data that is anonymous.

Which public cloud/hyperscaler environments are supported?

Trento is designed to discover and check SAP high availability cluster configurations for all cloud environments and on-premises. Some hyperscaler-specific checks, for example on Azure tests of Azure Fence Agent, will be available for Amazon Web Services (AWS), Google Cloud, and Microsoft Azure.

When will Trento be available for production use?

The first release of Trento is targeted to be available by the end of April 2022. Expanded monitoring and system checking capabilities will be added in future updates independent of the SUSE Linux Enterprise Server for SAP Applications release plans.

Is it possible to evaluate Trento before it is generally available?

SUSE customers with SUSE Linux Enterprise Server for SAP Applications are invited to participate in the ramp-up program for early evaluation of Trento before its general availability in April. For more information, send an email to trento-project@suse.com.

Where can I get more information about Trento?

Visit www.suse.com/trento for the latest information about the production release of Trento.

Visit www.trento-project.io for information about open source Trento.