



Header Data

Released On	08.02.2016 17:28:53
Release Status	Released for Customer
Component	HAN-DB SAP HANA Database
Other Components	BC-OP-LNX-ESX Linux on VmWare ESX
Priority	Recommendations / Additional Info
Category	Consulting

Symptom

You want to install SAP Business Warehouse (BW), powered by SAP HANA in a virtualized scale-out environment.

Other Terms

ESX, vSphere, virtualized, multiVM, scale-out

Reason and Prerequisites

With the release of SAP HANA SPS 05, SAP announced support for VMware vSphere 5.1 for non-production and since SAP HANA SPS 07 (or newer) and VMware vSphere 5.5 also for production scale-up scenarios.

Meanwhile, VMware and SAP have gained further experience in running SAP HANA in virtualized environments, allowing now also support for SAP Business Warehouse (BW), powered by SAP HANA in virtual scale-out deployments of SAP HANA.

Part of this validation effort was the certification of a virtualized SAP HANA BW-EML scale-out benchmark with a 3,000,000,000 records database (certification number: [2015016](#)). In consequence, this benchmark may now easily be compared with existing natively running benchmarks in a similar configuration to demonstrate that SAP HANA can achieve robust application performance in native and virtualized environments.

Solution

By issuing this SAP Note, SAP extends support for SAP HANA on VMware to include general availability of SAP Business Warehouse (BW), powered by SAP HANA, on VMware vSphere 5.5 in production and scale-out deployments, providing all the following conditions have been met:

- Customers have gone through a special approval process to gain SAP support for SAP BW, powered by SAP HANA running on VMware in scale-out and production. See <http://www.saphana.com/docs/DOC-3334> for more details on approval process.
- Existing restrictions and guidance for SAP HANA virtual scenarios, as outlined in SAP Note 1995460 and 2024433, do apply - with following exceptions:
 - SAP HANA multi-node / scale-out deployment configurations are supported in context of
 - SAP BW, powered by SAP HANA.
 - Further workloads of OLAP-type (HANA Data Mart, HANA Data Warehouse) generated by SAP and non-SAP tools
 - Documentation and / or tool-support for table distribution, sizing, partitioning, scale-out and how to configure SAP and 3rd party products on SAP HANA has to be provided by SAP, partners or customers resp.
 - Note 1: 3rd party scenarios will not be tested by SAP. In specific cases, SAP HANA support for specific products or scenarios might be excluded by SAP in the future. These will then be listed in this SAP note.
 - Note 2: 3rd party tool support can be checked at http://global.sap.com/community/ebook/2013_09_adpd/enEN/search.html (select a partner --> details --> SAP Certified Solutions)
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- The support for SAP HANA host auto-failover (aka stand-by) solutions is currently limited to those hardware vendors, which have already tested their SAP HANA Storage Connector API or STONITH setup also with VMware vSphere. A list of validated storage vendors can get found on SCN page: <http://scn.sap.com/docs/DOC-60470>

Further Information

- General information on SAP HANA support in virtualized environments
<https://service.sap.com/sap/support/notes/1788665>
- VMware Best Practices for SAP HANA on VMware vSphere
<http://www.vmware.com/go/sap-hana>
- SAP HANA Guidelines for being virtualized with VMware vSphere
<http://www.saphana.com/docs/DOC-4192>
- SAP HANA on VMware vSphere 5.5 BW-EML Benchmark
<http://global.sap.com/solutions/benchmark/bweml-results.htm>

Validity

Software Component	From Rel.	To Rel.	And Subsequent
HDB	1.00	1.00	<input type="checkbox"/>

References

This document refers to:

SAP Notes

1788665 [SAP HANA Support for virtualized / partitioned \(multi-tenant\) environments](#)

This document is referenced by:

SAP Notes (1)

171356 [SAP Software on Linux: General information](#)