HANA Update from 1.0 to 2.0

What is the best way of upgrading SAP HANA 1.0 to 2.0 Version. Another 2 ½ weeks months before end-of-maintenance of all (!) SAP HANA 1.0 and 2.0 release, except for SPS 05. ♣ ✓Refer to the post: https://lnkd.in/e8hRT6k

In the document if covers the 2-type HANA update:

- Normal upgrade-Single Tenant.
- HA Scenario-How to break the replication and perform upgrade in both system.

SAP note: 1948334 SAP HANA Database Update Paths for SAP HANA Maintenance Revisions.

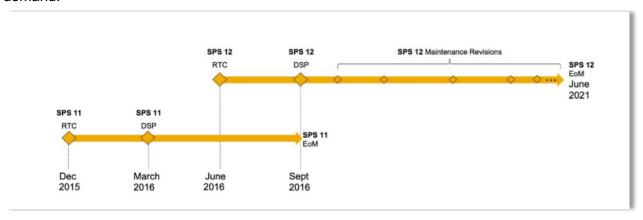
*Many of have queries who are running in lower version: ?

- ★Customers on SAP HANA 1.0 with SPS10 can upgrade directly to SAP HANA 2.0
- ★Recommendation is first upgrade to SPS12 and continue with SAP HANA 2.0 upgrade
- ★If you are using SAP HANA 1.0 with the below SPS version from 10, then an SPS12 upgrade is mandatory before start the SAP HANA 2.0 upgrade

With SAP HANA 2 - major changes: @

- ★The metadata persistence layout has been changed and
- An older column store persistence format has been deprecated and is not supported anymore.

⊕ SAP will provide Maintenance Revisions for SAP HANA 1.0 SPS12 for a period of 5 years after RTC. Maintenance Revisions for SAP HANA SPS12 are not scheduled and delivered on demand.



HANA 1.0: Revision Strategy for the SAP HANA Platform (1.0)

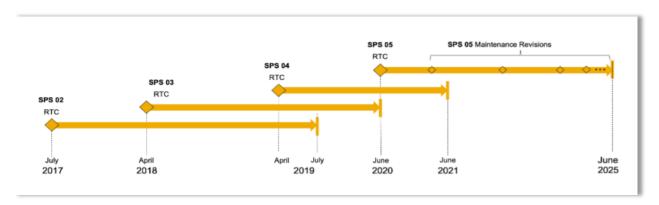
SAP HANA 2.0

Corrections

SAP will provide Maintenance Revisions for SAP HANA 2.0 SPS05 for a period of five (5) years after RTC. These Revisions after SPS05 are not scheduled but delivered on demand. Bug fixes and security patches are released for every Support Package Stack (SPS) for two (2) years after RTC.

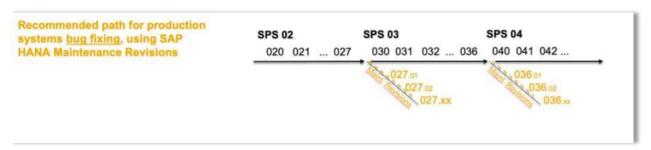
New capabilities

SAP will introduce new capabilities once a year, every time a new SAP HANA Support Package Stack (SPS) is released. An overview can be found in SAP HANA 2.0 Revision Strategy An overview can be found in SAP HANA 2.0 Revision Strategy



SAP HANA Update Strategy Customers may opt to continue consuming maintenance revisions until end of provisioning or choose to upgrade to a new stack upon release. This decision depends on the individual and unique customer needs for adopting new features and capabilities of SAP HANA®.

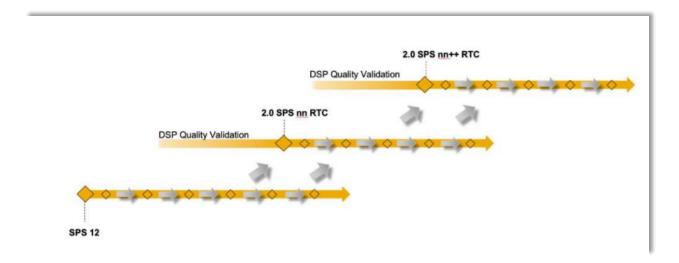
Un-Planned Maintenance - Recommended path for production systems- SAP provides SAP HANA standard revisions until RTC of the following SPS. These standard revisions contain only incremental fixes. SAP provides SAP HANA maintenance revisions between RTC of the following SPS and end of maintenance of the current SPS. These maintenance revisions contain only major bug fixes, identified to be relevant in particular for production environments.



SAP recommends to always implement the latest SAP HANA revision available on SAP Service Marketplace to benefit from incremental, but non-disruptive improvements.

Planned Maintenance - Recommended path for production systems Customers can upgrade to any available revision of a new SPS at any point in time. Starting with SAP HANA 2.0 SPS00,

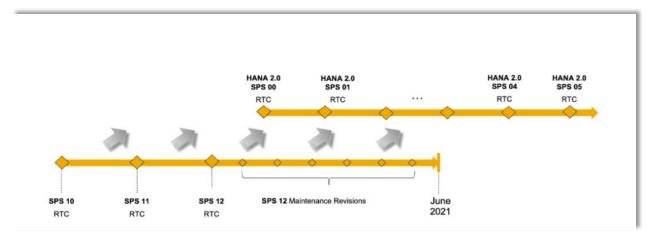
SAP will no longer explicitly declare a Datacenter Service Point (DSP) since SAP is running DSP qualification validation before RTC of a new SPS. DSP status is automatically given with RTC of the SPS. More information about DSP can be found in SAP Note 2021789.



Please see SAP Note 2021789 (HANA 1.0) and SAP Note 2378962(HANA 2.0) for further information.

Upgrade Strategy for the SAP HANA Platform - HANA 1.0 to 2.0

SAP HANA 2.0 is upward compatible which means customers are able to perform a normal upgrade with no migration required. SAP HANA® systems running on HANA 1.0 SPS10 or newer may be upgraded to HANA 2.0 directly. SAP HANA systems running on HANA 1.0 SPS09 or lower, need to upgrade to a HANA SPS ≧ SPS10 prior to upgrading to HANA 2.0. However, SAP recommends minimum start release HANA 1.0 SPS12 revision before upgrading to SAP HANA 2.0 to be able to use Capture & Replay tool for regression tests. Customers running mission critical systems may opt to stay on HANA 1.0 on SPS12 until June 2021.



See SAP Note 1948334 for possible update paths from maintenance revisions to support package revisions For more information, see SAP Note 2372809 (Mandatory Preparation Steps for Upgrading an SAP HANA 1 System to SAP HANA 2).

Appendix: High level Steps:

- 1. Download the required software of HANA 2.0
- 2. Capturing Current status of HANA database technical details
- 3. Pre-Upgrade check as guidelines of SAP KBA
- 4. Perform Hana Upgrade from 1.0 to 2.0
- 5. Post Hana Upgrade technical Validation.
- 6. Adjust hdbuserstore setting on the Application server(If required).

Agenda: Update HANA from 1.0 to 2.0 where Application component are unchanged (Please also refer PAM)

Technical details of current Hana server:

Operating System: SLES 12 SP02

Database: HANA 1.0 SPS12 Revision 8(1.00.122.08.1490178281)

Hana environment: Single container

Application: NW 7.50 with Banking services 9.0 SPS 05

Target Hana Version:

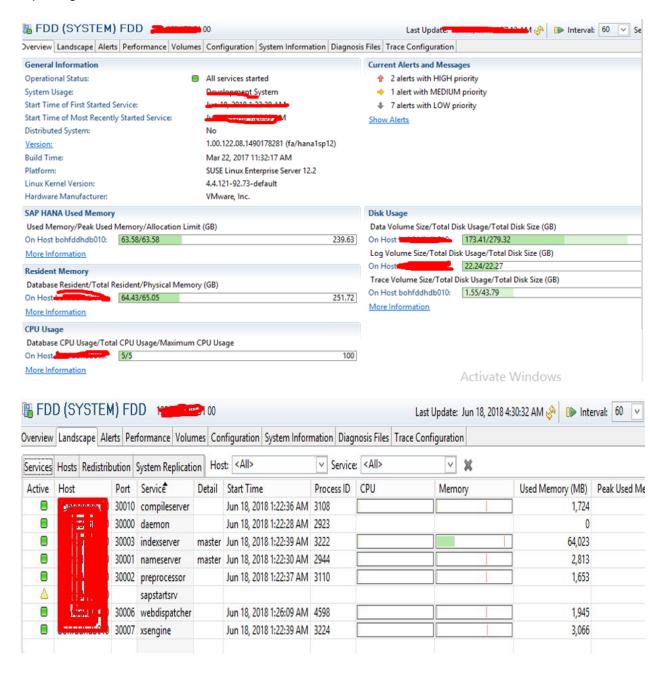
Database: SAP HANA 2.0 SPS 03 Database Maintenance Revision 024.03(2.00.024.03.1527766375)

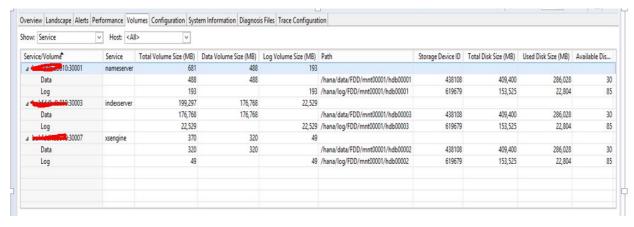
1. Download the required software of HANA 2.0(IMDB_SERVER20_024_3-80002031.SAR)

```
total 3505476

drwxrwxrwx 8 root root 4096 Mar 22 2017 SAP HANA DATABASE
-rwxrwxrwx 1 sap60234@SCC4C.COM domain users@SCC4C.COM 3586092513 Jun 6 13:55 IMDB_SERVER20_024_3-80002031.SAR
drwxr-x--- 3 fdpadm sapsys 4096 Jun 7 10:54 hana20
```

2. Capturing Current status of HANA database technical details





```
usr/sap/FDD/HDB00> HDB info
          PID PPID %CPU
                            VSZ RSS COMMAND
        12493 12492 0.0 23644 5712 -sh
fddadm
         7000 12493 12.5 13376 3396
                                           /bin/sh /usr/sap/FDD/HDB00/HDB info
fddadm
fddadm
                                             \_ ps fx -U fddadm -o user,pid,ppid,pcpu,vsz,rss,args
fddadm
                     0.0 22916 3284 sapstart pf=/usr/sap/FDD/SYS/profile/FDD_HDB00_bohfddhdb010
                                          \_ /usr/sap/FDD/HDB00/
fddadm
                                                                             trace/hdb.sapFDD_HDB00 -d -nw -f /usr/sap/FDD
                                                \_ hdbnameserver
                                               \_ hdbcompileserver
                     4.8 3402240 796220
Eddadm
                      0.6 3136656 493720
                                                  hdbpreprocessor
         3222 2923 235 73075592 67141236
                                                  \ hdbindexserver
                                                \_ hdbxsengine
         3224 2923 2.2 4921608 1459168
fddadm
         4598 2923 0.9 3313924 553472
                                                 hdbwebdispatcher
                1 0.0 2217148 32132 /usr/sap/FDD/HDB00/exe/sapstartsrv pf=/usr/sap/FDD/SYS/profile/FDD_HDB00_4
010:/usr/sap/FDD/HDB00> sapcontrol -nr 0 -function GetProcessList
18.06.2018 01:36:05
GetProcessList
name, description, dispstatus, textstatus, starttime, elapsedtime, pid
dbdaemon, HDB Daemon, GREEN, Running, 2018 06 18 01:22:27, 0:13:38, 2923
dbcompileserver, HDB Compileserver, GREEN, Running, 2018 06 18 01:22:36, 0:13:29, 3108
dbindexserver, HDB Indexserver, GREEN, Running, 2018 06 18 01:22:38, 0:13:27, 3222
 dbnameserver, HDB Nameserver, GREEN, Running, 2018 06 18 01:22:28, 0:13:37, 2944
ndbpreprocessor, HDB Preprocessor, GREEN, Running, 2018 06 18 01:22:36, 0:13:29, 3110
dbwebdispatcher, HDB Web Dispatcher, GREEN, Running, 2018 06 18 01:26:09, 0:09:56, 4598
dbxsengine, HDB XSEngine, GREEN, Running, 2018 06 18 01:22:38, 0:13:27, 3224
```

```
Filesystem
                                          Used Avail Use% Mounted on
devtmpfs
                                    126G
                                                126G
                                                        0% /dev
tmpfs
                                    213G
                                           84K
                                                213G
                                                        1% /dev/shm
                                                126G
mpfs
                                    126G
                                           19M
                                    126G
                                                126G
                                                        0% /sys/fs/cgroup
dev/mapper/VG--00-rootly
                                                 31G
                                                       38% /
                                          102M
                                                       6% /boot
dev/sda1
                                    2.0G
/dev/mapper/VG--Data-usrsaplv
                                     18G
                                          2.6G
                                                       15% /usr/sap
dev/mapper/VG--Data-hanaloglv
                                                128G
                                                       15% /hana/log
dev/mapper/VG--Data-hanadatalv
                                    400G
                                          280G
                                                       70% /hana/data
/dev/mapper/VG--Data-hanasharedly
                                                      22% /hana/shared
                                           44G
                                    200G
mpfs
                                     26G
                                                 26G
                                                       0% /run/user/478
mpfs
                                     26G
                                                 26G
                                                          /run/user/0
mpfs
                                                        0% /run/user/479
                                     26G
                                                 26G
                                                        0% /run/user/1007
mpfs
mpfs
                                     26G
                                                 26G
                                                        0% /run/user/1006
                                                        1% /run/user/485
mpfs
mpfs
                                                        0% /run/user/351403409
                                                        0% /run/user/351403367
                                     26G
mpfs
```

3. Pre-Upgrade check as guidelines of SAP KBA

SAPNote: 2372809 - Guideline for Upgrading a SAP HANA 1.0 to SAP HANA 2.0 System SAPNote: 2469025 - How-To: Upgrading to SAP HANA 2.0

SAPNote: 1948334 - SAP HANA Database Update Paths for SAP HANA Maintenance Revisions

4. Perform Hana Upgrade from 1.0 to 2.0

```
Do you want to continue? (y/n): y
Updating components...
Preparing update of SAP HANA Database...
 Preparing package 'Saphostagent Setup'...
  Preparing package 'Python Support'...
  Preparing package 'Python Runtime'...
  Preparing package 'Product Manifest'...
  Preparing package 'Binaries'...
  Preparing package 'Data Quality'...
  Preparing package 'Krb5 Runtime'...
  Preparing package 'Installer'...
  Preparing package 'Ini Files'...
  Preparing package 'HWCCT'...
  Preparing package 'Documentation'...
  Preparing package 'Delivery Units'...
  Preparing package 'Offline Cockpit'...
  Preparing package 'DAT Languages (EN, DE) '...
  Preparing package 'DAT Languages (other)'...
  Preparing package 'DAT Configfiles (EN, DE)'...
  Preparing package 'DAT Configfiles (other)'...
 Extracting software...
Extracting package 'Saphostagent Setup'...
Extracting package 'Python Support'...
```

```
reparing package 'Saphostagent Setup'..
Preparing package 'Python Support'...
Preparing package 'Python Runtime'...
Preparing package 'Product Manifest'...
 Preparing package 'Binaries'...
Preparing package 'Data Quality'...
Preparing package 'Krb5 Runtime'...
Preparing package 'Installer' ...
Preparing package 'Ini Files' ...
Preparing package 'HWCCT' ...
Preparing package 'Documentation' ...
Preparing package 'Delivery Units' ...
Preparing package 'Offline Cockpit'...
Preparing package 'DAT Languages (EN, DE)'...
Preparing package 'DAT Languages (other)'...
Preparing package 'DAT Configfiles (EN, DE)'...
Preparing package 'DAT Configfiles (other)'...
Extracting software...
Extracting package 'Saphostagent Setup'...
Extracting package 'Python Support'...
Extracting package 'Python Runtime' ...
Extracting package 'Product Manifest'...
Extracting package 'Binaries'...
Extracting package 'Data Quality'...
Extracting package 'Krb5 Runtime' ...
Extracting package 'Installer' ...
Extracting package 'Ini Files' ...
Extracting package 'HWCCT'...
Extracting package 'Documentation'...
Extracting package 'Delivery Units'...
Installing package 'Offline Cockpit'...
Extracting package 'DAT Languages (EN, DE) '...
Installing package 'DAT Languages (other)'...
Extracting package 'DAT Configfiles (EN, DE)'...
 Installing package 'DAT Configfiles (other)'...
topping system...
                                                                                                                                                                                                                                                                               Activate Windows
Stopping 7 processes on host 'bohfddhdb010' (worker):

Stopping on Particle Hills (worker) Activate Windows
Stopping on Particle Hills (worker) Hills (worke
```

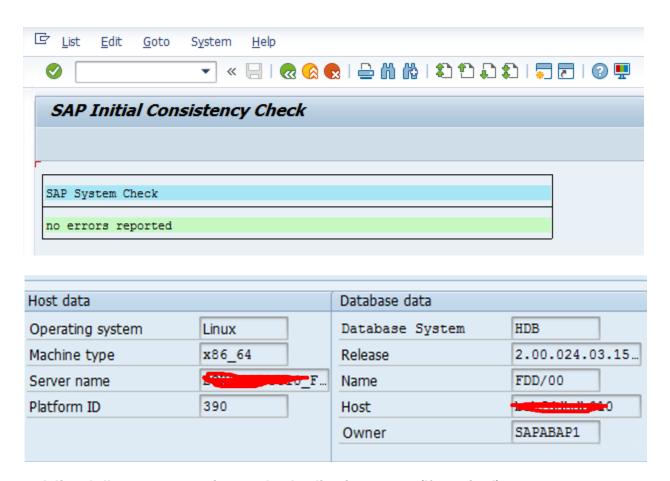
```
Finalizing update of SAP HANA Database...
  Importing delivery units...
  Importing delivery unit HCO INA SERVICE
  Importing delivery unit HANA DT BASE
  Importing delivery unit HANA_IDE_CORE
  Importing delivery unit HANA TA_CONFIG
Importing delivery unit HANA_UI_INTEGRATION_SVC
  Importing delivery unit HANA_UI_INTEGRATION_CONTENT
Importing delivery unit HANA_XS_BASE
  Importing delivery unit HANA XS DBUTILS
  Importing delivery unit HANA_XS_EDITOR
Importing delivery unit HANA_XS_IDE
  Importing delivery unit HANA_XS_LM
  Importing delivery unit HDC_ADMIN
  Importing delivery unit HDC BACKUP
  Importing delivery unit HDC_IDE_CORE Importing delivery unit HDC_SEC_CP
  Importing delivery unit HDC_SYS_ADMIN
  Importing delivery unit HDC_XS_BASE Importing delivery unit HDC_XS_LM
  Importing delivery unit SAPUI5_1
  Importing delivery unit SAP_WATT
  Importing delivery unit HANA SEC_CP
  Importing delivery unit HANA BACKUP Importing delivery unit HANA HDBLCM
  Importing delivery unit HANA_SEC_BASE
  Importing delivery unit HANA_SYS_ADMIN
  Importing delivery unit HANA_ADMIN
  Importing delivery unit HANA WKLD ANLZ
Starting tenant database...
Updating SAP HANA Database Instance Integration on Local Host...
  Deploying SAP Host Agent configurations...
Updating Component List...
SAP HANA Database components updated
You can send feedback to SAP with this form: https://Dontolindbtt0:1129/lms1/HDBLCM/FDD/feedback/feedback.html
Log file written to '/var/tmp/hdb_FDD_hdblcm_update_2018-06-18_01.44.02/hdblcm.log' on host '
```

You can send feedback to SAP with this form:

https://Abcd010:1129/lmsl/HDBLCM/FDD/feedback/feedback.html

Log file written to '/var/tmp/hdb_FDD_hdblcm_update_2018-06-18_01.44.02/hdblcm.log' on host 'AbcdB010'

5. Post Hana Upgrade technical Validation.



6. Adjust hdbuserstore setting on the Application server (If required).

High Availability Scenario:

```
spadm@s==ssntues/usr/sap/ASP/HDB00/exe/python_support> python systemReplicationStatus.p
his system is either not running or not primary system replication site
 ode: SYNCMEM
site id: 2
site name: Secondary
 ctive primary site: 1
 dde: SYNCMEM

ite id: 2

ite name: Secondary

ctive primary site: 1

rimary masters: 503

spadm@SREASPSTNB:/usr/sap/ASP/HDB00/exe/python_support> hdbnsutil -sr_state
 nline: true
   one.
spadm@SREASPSTNB:/usr/sap/ASP/HDB00/exe/python_support> ip r ;date
efault via 10.10.81.1 dev eth0

1.10.81.0/24 dev eth0 proto kernel scope link src

1.2.31.3.0/24 dev eth0 proto kernel scope link src

1.3.31.0/24 dev eth1 proto kernel scope link src

1.3.11.0/25 dev eth1 proto kernel scope link src
              :/usr/sap/ASP/HDB00> HDB version
HDB version info:
   version:
                                           1.00.122.31.1590049925
   branch:
                                         fa/hana1sp12
  machine config:
                                         git hash:
   git merge time:
                                          2020-05-21 10:32:05
   weekstone:
   compile date:
                                           2020-05-21 11:23:03
                                          1d4549
   compile host:
   compile type:
                    r/sap/ASP/NDB00/exe/python_support> python_systemReplicationStatus.py
| Service Name | Volume ID | Site ID | Site Name | Secondary | Secondary | Secondary | Secondary | Replication | Replication | Re
```

```
Used Avail Use% Mounted on
Filesystem
devtmpfs
                                    16G 8.0K
                                                16G
                                                      1% /dev
tmpfs
                                    71G 4.0K
                                                      1% /dev/shm
                                                     11% /run
tmpfs
                                         1.6G
tmpfs
                                                16G
                                                      0% /sys/fs/cgroup
                                         3.3G
/dev/mapper/osvg-root
                                                      78 /
/dev/mapper/osvg-usr
                                         5.4G
                                                25G 18% /usr
/dev/sda1
                                         162M
                                                      2% /boot
/dev/mapper/osvg-tmp
                                                7.4G
                                                     26% /tmp
/dev/mapper/osvg-home
                                         9.5G
                                                     24% /home
/dev/mapper/osvg-var
                                         2.3G
                                                      8% /var
/dev/mapper/VG--DATA-usrsaplv
                                                      58% /usr/sap
dev/mapper/VG--DATA-usrsaptranslv 330G
                                                      32% /usr/sap/trans
/dev/mapper/VG--DATA-sapmntASPlv
                                                     19% /sapmnt/ASP
                                                      85% /softdump
0.10.81.40:/softdump
                                                     91% /backup
10.10.81.40:/backup
                                                      0% /run/user/0
tmpfs
tmpfs
                                                       0% /run/user/351427144
tmpfs
                                                       0% /run/user/351409236
tmpfs
tmpfs
                                                       0% /run/user/351409482
```

```
11.06.2021 20:12:47

GetProcessList

OK

name, description, dispstatus, textstatus, starttime, elapsedtime, pid
disp+work, Dispatcher, GREEN, Running, 2021 03 16 22:17:30, 2085:55:17, 18961
igswd mt, IGS Watchdog, GREEN, Running, 2021 03 16 22:17:30, 2085:55:17, 18962
gwrd, Gateway, GREEN, Running, 2021 03 16 22:17:33, 2085:55:14, 18981
icman, ICM, GREEN, Running, 2021 03 16 22:17:33, 2085:55:14, 18982

OK

11.06.2021 20:12:58

GetProcessList

OK

name, description, dispstatus, textstatus, starttime, elapsedtime, pid
msg_server, MessageServer, GREEN, Running, 2021 03 16 22:17:08, 2085:55:50, 17358
enserver, EnqueueServer, GREEN, Running, 2021 03 16 22:17:08, 2085:55:50, 17359
enserver, EnqueueServer, GREEN, Running, 2021 03 16 22:17:08, 2085:55:50, 17359
default via 10.10.81.1 dev eth0
10.10.81.0/24 dev eth0 proto kernel scope link src 10.10.81.58
172.31.3.0/24 dev eth1 proto kernel scope link src 172.31.3.58
Fri Jun 11 20:13:03 +03 2021
```

HA Checks: Check Replication State in HA

```
this system is either not running or not primary system replication site

Local System Replication State

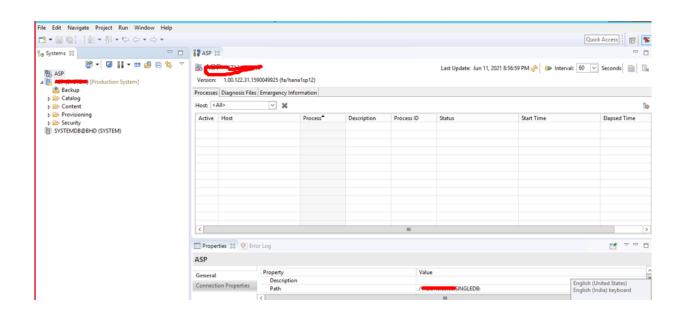
mode: SYNCMEM

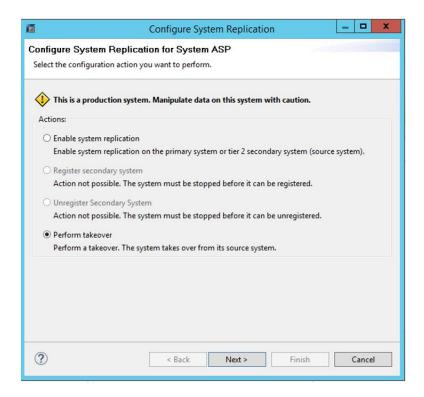
site id: 2

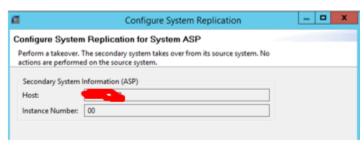
site name: Secondary
active primary site: 1

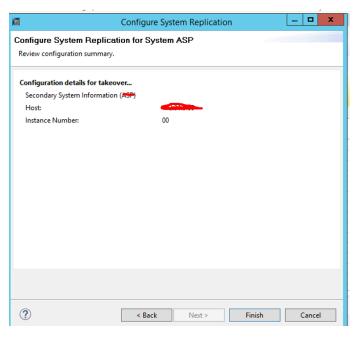
primary masters: 5-222
```

Take over using HANA studio: Login with SIDADM in HANA studio in HA system









```
No. Messaging Service 1 (1.004.10) in /softeins/MANR_52_54/51054622/DATA_CHITS/MSA_CONTENT_10/MSACMESSENCQ_10.159

XS Messaging Service 1 (1.004.10) in /softeins/MANR_52_54/51054622/DATA_CHITS/MSA_CONTENT_10/MSACMESSENCQ_10.159

XS Messaging Service 1 (1.004.10) in /softeins/MSA_S2_54/51054622/DATA_CHITS/MSA_CONTENT_10/MSACMESSENCQ_10.159

XS Most SCHERULER 1.0 (1.007.11) in /softeins/MSA_S2_54/51054622/DATA_CHITS/MSA_CONTENT_10/MSACMESSENCESO_12.119

XS MOS SCHERULER 1.0 (1.007.11) in /softeins/MSA_S2_54/51054622/DATA_CHITS/MSA_CONTENT_10/MSACMESSENCESO_12.119

XSA_COCkpit 1 (1.001.17) in /softeins/MSA_S2_54/51054623/DATA_CHITS/MSA_CONTENT_10/MSACMESSENCESO_12.119

I make | Associate | As
```

```
mmary before execution:
       AP HANA Database
             HANN Database
Update Parameters
SAP HANN System ID: ASP
Remote Execution: ssh
Update Execution Mode: optimized
SAP HANN Database secure store: ssfs
Database User Name: SYSTEM
SAFTANNE COMPONENTS
       Software Components
SAP HANA Local Secure Store
Do not install
SAP HANA AFT (incl.FAL,BFL,OFL)
Do not install
SAP HANA EM-MDS
Do not install
SAP HANA EM-MDS
Do not install
SAP HANA EM-MDS
Do not install
SAP HANA Database
Update from version 1.00.122.31.1590049925 to 2.00.052.00.1599235305
Location: /softdump/HANA_52_54/51054623/DATA_UNITS/HDB_SERVER_LINUX_X86_64/server
SAP HANA Database Client
Update from version 1.00.120.050.1484020229 to 2.5.109.159833414
Location: /softdump/HANA_52_54/51054623/DATA_UNITS/HDB_CLIENT_LINUX_X86_64/client
SAP HANA Studio
Do not install
SAP HANA Sart Data Access
Do not install
SAP HANA Satar Data Access
Do not install
SAP HANA X8 Advanced Runtime
Do not install
Location: /var/tmp/hdb_ASP_hdblcm_update_2021-06-11_21.08.54
Trace Location: /var/tmp/hdb_MSP_hdblcm_update_2021-06-11_21.08.54
Trace Location: /var/tmp/hdb_MSP_hdblcm_update_2021-06-11_21.08.54
Trace Location: /var/tmp/hdblcm_2021-06-11_21.08.54
Trace Location: /var/tmp/hdblcm_2021-06-11_21.08.54
Trace Location: /var/tmp/hdb_ASP_hdblcm_update_2021-06-11_21.08.54
             Software Components
SAP HANA Local Secure Store
  ote: The upgrade of SAP HANA Database to this version will convert your system to multi-tenant database containers. This is a mandatory step. For more information, st
  Preparing package 'Installer'...
Preparing package 'Ini Files'...
Preparing package 'HWCCT'...
Preparing package 'Documentation'...
  Preparing package 'Documentation'.

Preparing package 'Offline Cockpit'..

Preparing package 'DAT Languages (EN, DE)'..

Preparing package 'DAT Configfiles (EN, DE)'..

Preparing package 'DAT Configfiles (EN, DE)'...
Preparing package 'DAT Configfiles (EN, DE)'...
Extracting software...
Extracting package 'Saphostagent Setup'...
Extracting package 'Saphostagent Setup'...
Extracting package 'Python Support'...
Extracting package 'Python Runtime'...
Extracting package 'Product Manifest'...
Extracting package 'Product Manifest'...
Extracting package 'Data Quality'...
Extracting package 'Nrb5 Runtime'...
Extracting package 'Installer'...
Extracting package 'Installer'...
Extracting package 'Ini Files'...
Extracting package 'NbCCT'...
Extracting package 'Documentation'...
Extracting package 'Documentation'...
Extracting package 'Optime Cockpit'...
Extracting package 'Optime Cockpit'...
Extracting package 'DAT Languages (EN, DE)'...
Installing package 'DAT Configfiles (EN, DE)'...
Installing package 'DAT Configfiles (EN, DE)'...
Installing package 'DAT Configfiles (Other)'...
Migrating table persistencies for HANA2...
Topping system...
Migrating table persistencies for HANA2...

Stopping 7 processes on host 'sreaspstnb' (worker):

Stopping 7 processes on host 'sreaspstnb' (worker):

Stopping on 'sreaspstnb' (worker): hdbdaemon, hdbcompileserver, hdbindexserver, hdbnameserver, hdbpreprocessor, hdbwebdispatcher, hdbxsengine
All server processes stopped on host 'sreaspstnb' (worker).

pdating SAP HANA Database...
pdating Resident hdblcm...

Cleaning up old installation of Resident hdblcm...

onfiguring SAP HANA Database...

Starting service (sapstartsry)...

onverting system to multitenant database containers...
```

HDB version info: version: 2.00.052.00.1599235305 branch: fa/hana2sp05 linuxx86 64 machine config: 33d9d2f805777f29e5dafe6d33d93026bc39d78c git hash: 2020-09-04 18:01:45 git merge time: weekstone: 0.00.00.0 cloud edition: 0000.00.00 compile date: 2020-09-04 18:22:04 compile host: 1d4553 compile type: rel aspadm@:==========/usr/sap/ASP/HDB00> ip r ;date default via 10.10.81.1 dev eth0 10.10.81.0/24 dev eth0 proto kernel scope link src 10.10.81.59 172.31.3.0/24 dev eth1 proto kernel scope link src 172.31.3.59 Fri Jun 11 21:31:03 +03 2021 aspadm@Sr :/usr/sap/ASP/HDB00> sapcontrol -nr 00 -function GetProcessList 11.06.2021 21:31:26 GetProcessList OK name, description, dispstatus, textstatus, starttime, elapsedtime, pid hdbdaemon, HDB Daemon, GREEN, Running, 2021 06 11 21:19:51, 0:11:35, 8808 hdbcompileserver, HDB Compileserver, GREEN, Running, 2021 06 11 21:21:34, 0:09:52, 9834 hdbnameserver, HDB Nameserver, GREEN, Running, 2021 06 11 21:19:51, 0:11:35, 8827 hdbpreprocessor, HDB Preprocessor, GREEN, Running, 2021 06 11 21:21:34, 0:09:52, 9837 hdbwebdispatcher, HDB Web Dispatcher, GREEN, Running, 2021 06 11 21:27:50, 0:03:36, 12542 hdbindexserver, HDB Indexserver-ASP, GREEN, Running, 2021 06 11 21:21:34, 0:09:52, 9891 hdbxsengine, HDB XSEngine-ASP, GREEN, Running, 2021 06 11 21:21:34, 0:09:52, 9894

HANA Revision

```
SAP HANA Lifecycle Management - SAP HANA Database 2.00.054.00.1611906357

Scanning software locations...

Detected components:
    SAP HANA Database (2.00.054.00.1611906357) in /softdump/HANA_52_54/SAP_HANA_DATABASE/server
    SAP HANA Database Client (2.8.20.1619811438) in /softdump/HANA_52_54/SAP_HANA_CLIENT/client

Do you want to specify additional components location? (y/n) [n]: n
```

```
rocessing software locations from pending update...
 ending update cannot be resumed with the persisted parameters. New update process will be started.

Pending update started with SAP HANA Lifecycle Management version '2.5.41.0' cannot be resumed with version '2.5.49.0'

SAP HANA Database installation kit '2.5.41.0' required.
hoose components to be installed or updated:
 Index | Components | Description
                       | All components
                       | Update SAP HANA Database from version 2.00.052.00.1599235305 to version 2.00.054.00.1611906357
        | client
Enter comma-separated list of the selected indices [1]: 1
Enter System Database User Name [SYSTEM]:
Enter System Database User (SYSTEM) Password:
 mmary before execution:
SAP HANA Database
  Update Parameters
     Remote Execution: ssh
Update Execution Mode: standard
      SAP HANA Database secure store: ssfs
     System Database User Name: SYSTEM
  Software Components
      SAP HANA Database
         Update from version 2.00.052.00.1599235305 to 2.00.054.00.1611906357 Location: /softdump/HANA_52_54/SAP_HANA_DATABASE/server
      SAP HANA Database Client
         Update from version 2.5.109.1598303414 to 2.8.20.1619811438
Location: /softdump/HANA_52_54/SAP_HANA_CLIENT/client
  Log File Locations
     Log directory: /var/tmp/hdb_ASP_hdblcm_update_2021-06-11_21.33.29
Trace location: /var/tmp/hdblcm_2021-06-11_21.33.29_15932.trc
   you want to continue? (y/n):
                                    2.00.054.00.1611906357
     version:
     branch:
                                     fa/hana2sp05
                                    linuxx86 64
     machine config:
                                     989e98fd1334a1b6e36785c8bd7e9ab5239960f1
     git hash:
     git merge time:
                                    2021-01-29 08:45:57
     weekstone:
                                    0000.00.0
     cloud edition:
                                    0000.00.00
     compile date:
                                    2021-01-29 08:49:45
     compile host:
                                    1d4554
     compile type:
                                    rel
            :/usr/sap/ASP/HDB00> sapcontrol -nr 00 -function GetProcessList
  11.06.2021 21:46:18
  GetProcessList
  name, description, dispstatus, textstatus, starttime, elapsedtime, pid
   dbdaemon, HDB Daemon, GREEN, Running, 2021 06 11 21:42:46, 0:03:32, 23798
  hdbcompileserver, HDB Compileserver, GREEN, Running, 2021 06 11 21:43:18, 0:03:00, 25379 hdbindexserver, HDB Indexserver-ASP, GREEN, Running, 2021 06 11 21:43:18, 0:03:00, 25431
   dbnameserver, HDB Nameserver, GREEN, Running, 2021 06 11 21:42:47, 0:03:31, 23821
   dbpreprocessor, HDB Preprocessor, GREEN, Running, 2021 06 11 21:43:18, 0:03:00, 25382
  hdbwebdispatcher, HDB Web Dispatcher, GREEN, Running, 2021 06 11 21:44:27, 0:01:51, 29047 hdbxsengine, HDB XSEngine-ASP, GREEN, Running, 2021 06 11 21:43:18, 0:03:00, 25434
```

```
o you want to specify additional components location? (y/n) [n]: n
 Index | Action
        | ASP (update)
                                | Update SAP HANA Database version 2.00.052.00.1599235305
                                | sreaspstnb (Database Worker (worker))
         install | Install new system extract components | Extract components
        install
        | Exit (do nothing)
inter selected action index [4]: 1
rocessing software locations from pending update...
ending update cannot be resumed with the persisted parameters. New update process will be started.

Pending update started with SAP HANA Lifecycle Management version '2.5.41.0' cannot be resumed with version '2.5.49.0'
 SAP HANA Database installation kit '2.5.41.0' required.
Choose components to be installed or updated:
 Index | Components | Description
                       | Update SAP HANA Database from version 2.00.052.00.1599235305 to version 2.00.054.00.1611906357
        | client
```

Same Repeat to the Primary Server and update the DB Client as well.

Don't FORGET to check the REPLICATION STATUS.

Reference SAP Note:

- Updating an SAP HANA System Landscape, SAP HANA Master Guide
- 2679360 Central Note for Behavioral Changes in SAP HANA
- 2222219 SAP HANA Errors and different Results due to Design Changes
- 2372809 Mandatory Preparation Steps for Upgrading a SAP HANA 1 System to SAP HANA 2
- 2469025 How-To: Upgrading to SAP HANA 2.0
- 2732756 SAP HANA Platform Update and Migration from 1.0 to 2.0

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- ★SAP Note: 2378962 SAP HANA 2.0 Revision and Maintenance Strategy
- ★SAP Note: 2235581- SAP HANA: Supported Operating Systems

For the recommended settings and additional information, see

- 2777782 SAP HANA DB: Recommended OS Settings for RHEL 8
- 2684254 SAP HANA DB: Recommended OS settings for SLES 15 / SLES for SAP Applications
 1
- 2235581 SAP HANA: Supported Operating Systems
- SAP HANA 2.0 and 1.0 What's the difference?
- 2101244 FAQ: SAP HANA Multitenant Database Containers (MDC)

Thank You

Jasbir Khanuja, Never Stop Learning, Never Stop Exploring.