Getting Started with SAP S/4HANA, on-premise Edition - Fully Activated Landscape on SAP Cloud Appliance Library

SAP

Table of Contents

1   Solution Information

SAP S/4HANA, on-premise edition - Fully Activated appliance consists of two appliances:

1.   *SAP ERP 607 - Central Applications SPS08 / SAP HANA Platform Edition 1.0 - HANA DB SPS09*
2.   *SBOP BI Platform 4.1 - Enterprise Servers SPS05*.

The solution provides the following pre-activated business content scope adjusted for SAP Simple Finance 1503 SPS1505:

- Pre-configuration for SAP ERP, localized for US, Germany and China
- Pre-configuration for Chemicals, localized for US
- Pre-configuration for Discrete Manufacturing, localized for US
- SAP Fiori apps
- SAP BOBJ reports
- Pre-configuration for SAP Access Control
- Sample scenario using SAP Screen Personas UX technology

Detailed information can be found on SAP Service Marketplace at http://tiny.cc/trys4h.

You can explore SAP S/4HANA, on-premise Edition, starting the 30-day trial solution. The trial user guide https://caldocs.hana.ondemand.com/caldocs/help/S4HANAOPTRIAL_USER_GUIDE_EN.pdf provides you with necessary information, such as direct system access and end-to-end business processes description.

Furthermore, you can extend the usage period and expand use cases of the same solution, using the SAP Cloud Appliance Library subscription package.

This guide provides general information on SAP S/4HANA, on-premise Edition solution - Fully Activated Landscape on SAP Cloud Appliance Library. It also provides information on the last steps for the configuration of the cloud environment, as well as initial business process evaluation in your own Demo/Evaluation Appliances. The landscape consists of SAP ERP with Simple Finance, SAP HANA and SAP BusinessObjects Suite.

This document is not a general overview, nor is it an explanation of SAP Best Practices. For more information about SAP Best Practices concepts, see the related documentation on http://service.sap.com/solutionpackages and follow the links to the Learning Maps.

The target group of this document are system administrators and basis consultants, who are responsible for system set up and preparation, including troubleshooting. They should have a sound knowledge of SAP Best Practices, including tools and documentation.

Material Numbers

You get access to a system that has been set up using the following media:

Number	Description
SWPM10SP08_0-20009701.SAR	SWPM10 SP08 Installation Master Linux x86_64 (SMP)
51048902_1	SAP ERP 6.0 EHP7 SR2 Installation Export I 1/2
51048902_2	SAP ERP 6.0 EHP7 SR2 Installation Export I 2/2
51048902_3	SAP ERP 6.0 EHP7 SR2 Installation Export II
51048902_4	SAP ERP 6.0 EHP7 SR2 Language I 1/2
51048902_5	SAP ERP 6.0 EHP7 SR2 Language I 2/2
51048902_6	SAP ERP 6.0 EHP7 SR2 Language II 1/2
51048902_7	SAP ERP 6.0 EHP7 SR2 Language II 2/2
51048902_8	SAP ERP 6.0 EHP7 SR2 Language III
51049354_1	SAP HANA Platf. Ed. 1.0 SPS09 (SAP HANA DB 1.00.91) 1/2
51049354_2	SAP HANA Platf. Ed. 1.0 SPS09 (SAP HANA DB 1.00.91) 2/2
51049552_3	SAP Kernel 7.42 Linux on x86_64 64bit

Components

The solution comprises the following component versions:

Component	Release	Support Package Stack	Type	Description
BP-CANW	740V8	0000000000	C	Tech. Obj. for SAP BP pkg. act. based on
BP-ERP	617V6	0000000000	C	SAP BP ADD-ON FOR ERP 617
BP-SOLBLD	70V9	0000000000	C	Best Practices Solution Builder on EHP5
C-CEE	110_604	0000000025	I	ECC Core Country Versions for EEM Countr
EA-APPL	617	0008	N	SAP Enterprise Extension PLM, SCM, Financials
EA-DFPS	617	0008	N	SAP Enterprise Extension Defense Forces & Public Security
EA-FIN	720	0000000000	N	EA-FIN
EA-FINSERV	617	0008	N	SAP Enterprise Extension Financial Services
EA-GLTRADE	617	0008	N	SAP Enterprise Extension Global Trade
EA-HR	607	0036	N	SAP Enterprise Extension HR

Component	Release	Support Package Stack	Type	Description
EA-HRCAR	607	0000000032	N	Sub component EA-HRCAR of EA-HR
EA-HRCAT	607	0000000032	N	Sub component EA-HRCAT of EA-HR
EA-HRCAU	607	0000000032	N	Sub component EA-HRCAU of EA-HR
EA-HRCBE	607	0000000032	N	Sub component EA-HRCBE of EA-HR
EA-HRCBR	607	0000000032	N	Sub component EA-HRCBR of EA-HR
EA-HRCCA	607	0000000032	N	Sub component EA-HRCCA of EA-HR
EA-HRCCH	607	0000000032	N	Sub component EA-HRCCH of EA-HR
EA-HRCCL	607	0000000032	N	Sub component EA-HRCCL of EA-HR
EA-HRCCN	607	0000000032	N	Sub component EA-HRCCN of EA-HR
EA-HRCDE	607	0000000032	N	Sub component EA-HRCDE of EA-HR
EA-HRCDK	607	0000000032	N	Sub component EA-HRCDK of EA-HR
EA-HRCES	607	0000000032	N	Sub component EA-HRCES of EA-HR
EA-HRCFI	607	0000000032	N	Sub component EA-HRCFI of EA-HR
EA-HRCFR	607	0000000032	N	Sub component EA-HRCFR of EA-HR
EA-HRCGB	607	0000000032	N	Sub component EA-HRCGB of EA-HR
EA-HRCHK	607	0000000032	N	Sub component EA-HRCHK of EA-HR
EA-HRCID	607	0000000032	N	Sub component EA-HRCID of EA-HR
EA-HRCIE	607	0000000032	N	Sub component EA-HRCIE of EA-HR
EA-HRCIN	607	0000000032	N	Sub component EA-HRCIN of EA-HR
EA-HRCIT	607	0000000032	N	Sub component EA-HRCIT of EA-HR
EA-HRCJP	607	0000000032	N	Sub component EA-HRCJP of EA-HR
EA-HRCKR	607	0000000032	N	Sub component EA-HRCKR of EA-HR
EA-HRCKW	607	0000000032	N	Sub component EA-HRCKW of EA-HR
EA-HRCKZ	607	0000000032	N	Sub component EA-HRCKZ of EA-HR
EA-HRCMX	607	0000000032	N	Sub component EA-HRCMX of EA-HR
EA-HRCMY	607	0000000032	N	Sub component EA-HRCMY of EA-HR
EA-HRCNL	607	0000000032	N	Sub component EA-HRCNL of EA-HR
EA-HRCNO	607	0000000032	N	Sub component EA-HRCNO of EA-HR
EA-HRCNZ	607	0000000032	N	Sub component EA-HRCNZ of EA-HR
EA-HRCOM	607	0000000032	N	Sub component EA-HRCOM of EA-HR

Component	Release	Support Package Stack	Type	Description
EA-HRCPH	607	0000000032	N	Sub component EA-HRCPH of EA-HR
EA-HRCPT	607	0000000032	N	Sub component EA-HRCPT of EA-HR
EA-HRCQA	607	0000000032	N	Sub component EA-HRCQA of EA-HR
EA-HRCRU	607	0000000032	N	Sub component EA-HRCRU of EA-HR
EA-HRCSE	607	0000000032	N	Sub component EA-HRCSE of EA-HR
EA-HRCSG	607	0000000032	N	Sub component EA-HRCSG of EA-HR
EA-HRCTH	607	0000000032	N	Sub component EA-HRCTH of EA-HR
EA-HRCTW	607	0000000032	N	Sub component EA-HRCTW of EA-HR
EA-HRCUN	607	0000000032	N	Sub component EA-HRCUN of EA-HR
EA-HRCUS	607	0000000032	N	Sub component EA-HRCUS of EA-HR
EA-HRCVE	607	0000000032	N	Sub component EA-HRCVE of EA-HR
EA-HRCZA	607	0000000032	N	Sub component EA-HRCZA of EA-HR
EA-HRGXX	607	0000000032	N	Sub component EA-HRGXX of EA-HR
EA-HRRXX	607	0000000032	N	Sub component EA-HRRXX of EA-HR
EA-IPPE	617	0000000004	P	SAP iPPE
EA-PS	617	0008	N	SAP Enterprise Extension Public Services
EA-RETAIL	617	0008	N	SAP Enterprise Extension Retail
EAPPLGLO	607	0011	I	Globalization Extension ERP Financial
EAPSGLO	607	0011	I	Globalization Extension Public Sector
ECC-DIMP	617	0008	I	DIMP
ECC-SE	605	0000000013	I	ECC-SE
ERECRUIT	617	0000000007	I	E-Recruiting
FI-CA	617	0008	I	FI-CA
FI-CAX	617	0008	I	FI-CA Extended
FINBASIS	747	0008	N	Financial Basis
FSCM_CCD	720	0000000000	N	FSCM_CCD
GBAPP002	600	0009	H	GBAPP002
GBHCM002	600	0015	H	HCM Employee Requests (Leave)
GBHCM003	600	0000000012	H	HCM Manager Approvals (Time, Training, L
GRCFND_A	V1100	0009	V	GRC Foundation ABAP

Component	Release	Support Package Stack	Type	Description
GRCPIERP	V1100_700	0009	H	GRCPIERP
GRCPINW	V1100_731	0009	V	SAP GRC NetWeaver Plug-In
INSURANCE	617	0008	I	SAP Insurance
IS-CWM	617	0008	I	Industry Solution Catch Weight Management
IS-H	617	0012	I	SAP Healthcare
IS-M	617	0008	I	SAP MEDIA
IS-OIL	617	0008	I	IS-OIL
IS-PRA	617	0009	I	SAP IS-PRA
IS-PS-CA	617	0008	I	IS-PUBLIC SECTOR CONTRACT ACCOUNTING
IS-UT	617	0008	I	SAP Utilities/Telecommunication
IW_GIL	100	0006	V	Generic Interaction Layer
IW_PGW	100	0000000006	V	Process Gateway
LSOFE	617	0000000006	I	SAP Learning Solution Front-End
MDG_APPL	617	0008	R	MDG Applications
MDG_FND	747	0008	V	MDG Foundation
PERSONAS	300	0000	C	PERSONAS - SAP GUI PERSONALISATION
PI_BASIS	740	0000000010	X	Basis Plug-In
PLMWUI	747	0008	I	SAP PLM Web UI
SAP_ABA	740	0000000010	S	Cross-Application Component
SAP_AP	700	0000000032	V	SAP Application Platform
SAP_APPL	617	0008	R	Logistics and Accounting
SAP_BASIS	740	0000000010	S	SAP Basis Component
SAP_BS_FND	747	0008	V	SAP Business Suite Foundation
SAP_BW	740	0000000010	W	SAP Business Warehouse
SAP_FIN	720	0001	R	SAP_FIN
SAP_GWFND	740	0000000010	S	SAP Gateway Foundation
SAP_HR	604	0085	R	Human Resources
SAP_HRCAR	604	0000000081	R	Sub component SAP_HRCAR of SAP_HR
SAP_HRCAT	604	0000000081	R	Sub component SAP_HRCAT of SAP_HR
SAP_HRCAU	604	0000000081	R	Sub component SAP_HRCAU of SAP_HR

Component	Release	Support Package Stack	Type	Description
SAP_HRCBE	604	0000000081	R	Sub component SAP_HRCBE of SAP_HR
SAP_HRCBR	604	0000000081	R	Sub component SAP_HRCBR of SAP_HR
SAP_HRCCA	604	0000000081	R	Sub component SAP_HRCCA of SAP_HR
SAP_HRCCH	604	0000000081	R	Sub component SAP_HRCCH of SAP_HR
SAP_HRCCL	604	0000000081	R	Sub component SAP_HRCCL of SAP_HR
SAP_HRCCN	604	0000000081	R	Sub component SAP_HRCCN of SAP_HR
SAP_HRCDE	604	0000000081	R	Sub component SAP_HRCDE of SAP_HR
SAP_HRCDK	604	0000000081	R	Sub component SAP_HRCDK of SAP_HR
SAP_HRCES	604	0000000081	R	Sub component SAP_HRCES of SAP_HR
SAP_HRCFI	604	0000000081	R	Sub component SAP_HRCFI of SAP_HR
SAP_HRCFR	604	0000000081	R	Sub component SAP_HRCFR of SAP_HR
SAP_HRCGB	604	0000000081	R	Sub component SAP_HRCGB of SAP_HR
SAP_HRCHK	604	0000000081	R	Sub component SAP_HRCHK of SAP_HR
SAP_HRCID	604	0000000081	R	Sub component SAP_HRCID of SAP_HR
SAP_HRCIE	604	0000000081	R	Sub component SAP_HRCIE of SAP_HR
SAP_HRCIN	604	0000000081	R	Sub component SAP_HRCIN of SAP_HR
SAP_HRCIT	604	0000000081	R	Sub component SAP_HRCIT of SAP_HR
SAP_HRCJP	604	0000000081	R	Sub component SAP_HRCJP of SAP_HR
SAP_HRCKR	604	0000000081	R	Sub component SAP_HRCKR of SAP_HR
SAP_HRCKW	604	0000000081	R	Sub component SAP_HRCKW of SAP_HR
SAP_HRCKZ	604	0000000081	R	Sub component SAP_HRCKZ of SAP_HR
SAP_HRCMX	604	0000000081	R	Sub component SAP_HRCMX of SAP_HR
SAP_HRCMY	604	0000000081	R	Sub component SAP_HRCMY of SAP_HR
SAP_HRCNL	604	0000000081	R	Sub component SAP_HRCNL of SAP_HR
SAP_HRCNO	604	0000000081	R	Sub component SAP_HRCNO of SAP_HR
SAP_HRCNZ	604	0000000081	R	Sub component SAP_HRCNZ of SAP_HR
SAP_HRCOM	604	0000000081	R	Sub component SAP_HRCOM of SAP_HR
SAP_HRCPH	604	0000000081	R	Sub component SAP_HRCPH of SAP_HR
SAP_HRCPT	604	0000000081	R	Sub component SAP_HRCPT of SAP_HR
SAP_HRCQA	604	0000000081	R	Sub component SAP_HRCQA of SAP_HR

Component	Release	Support Package Stack	Type	Description
SAP_HRCRU	604	0000000081	R	Sub component SAP_HRCRU of SAP_HR
SAP_HRCSE	604	0000000081	R	Sub component SAP_HRCSE of SAP_HR
SAP_HRCSG	604	0000000081	R	Sub component SAP_HRCSG of SAP_HR
SAP_HRCTH	604	0000000081	R	Sub component SAP_HRCTH of SAP_HR
SAP_HRCTW	604	0000000081	R	Sub component SAP_HRCTW of SAP_HR
SAP_HRCUN	604	0000000081	R	Sub component SAP_HRCUN of SAP_HR
SAP_HRCUS	604	0000000081	R	Sub component SAP_HRCUS of SAP_HR
SAP_HRCVE	604	0000000081	R	Sub component SAP_HRCVE of SAP_HR
SAP_HRCZA	604	0000000081	R	Sub component SAP_HRCZA of SAP_HR
SAP_HRGXX	604	0000000081	R	Sub component SAP_HRGXX of SAP_HR
SAP_HRRXX	604	0000000081	R	Sub component SAP_HRRXX of SAP_HR
SAP_UI	740	0000000012	S	User Interface Technology
SEM-BW	747	0008	I	SEM-BW: Strategic Enterprise Management
SFDM_ABAP	100	0000000004	I	SFDM On ABAP 1.0
SRA001	600	0007	H	Approve Purchasing Contracts OData Integ
SRA002	600	0008	H	Time Recording OData Integration Compone
SRA003	600	0000000003	H	Create Travel Expenses OData Integration
SRA004	600	0007	H	Create Travel Request OData Integration
SRA006	600	0008	H	Remuneration Statements OData Integratio
SRA007	600	0000000006	H	My Benefits Enrollment OData Integration
SRA008	600	0008	H	Approve Travel Expenses OData Integratio
SRA009	600	0007	H	Approve Travel Requests OData Integratio
SRA010	600	0000000007	H	Staffing List OData Integration Componen
SRA012	600	0000000005	H	My Department Spend
SRA013	600	0000000007	H	Create Purchase Order from Released Purc
SRA016	600	0008	H	Price and Availability Check OData Integ
SRA017	600	0007	H	Create Purchase Order OData Integration
SRA018	600	0007	H	Purchase Order Status Tracking OData Int
SRA019	600	0000000005	H	Track Shipment OData Integration Compone
SRA020	600	0000000007	H	Purchase Order Status (In Process, Appro

Component	Release	Support Package Stack	Type	Description
SRA021	600	0007	H	Customer Invoices OData Integration Comp
ST-PI	740	0000000001	X	SAP Solution Tools Plug-In
UIAPFI70	200	0001	H	UI SFIN
UIEAAP01	100	0006	H	UI for ERP Central Applications
UIGRC001	100	0000000005	H	UI for GRC
UIHERP01	100	0000000003	H	UI Hana Live Content for ERP
UIHGRC01	100	0003	H	Fiori/Hana Live Content for SAP GRC
UISAFND1	100	0000000000	H	Frontend Server Content for Smart Business for ANALYTICS FOUNDATION 100
UISERP01	100	0006	H	UI Smart Business Content for ERP
UISKPI01	100	0000000003	H	UI Smart Business Content for KPI
UIX01CA1	100	0005	H	UI for Cross-Applications
UIX01EAP	100	0006	H	UI for ERP Central Applications
UIX01HCM	100	0006	H	UI for HCM Application
UIX01TRV	100	0005	H	UI for Travel Application
WEBCUIF	747	0008	V	SAP Web UI Framework

Sizing Information

Regarding minimum sizing, consult SAP Note 2032086.

Sizing information should be considered for on-premise deployment.

Follow the sizing guidelines to determine the hardware requirements of the solution such as network bandwidth, physical memory, CPU power, and I/O capacity by choosing this quick link: http://service.sap.com/sizing →

 Sizing → Sizing Guidelines

You can also use the search function in the Quick Sizer tool to find your required sizing guidelines.

OS Compatibility Information

Check the Product Availability Matrix (PAM) to determine the operating system requirements needed to run the SAP system. For more information, find the details of the OS environment on which this solution has been set up in the table below:

Name	Value
OS Kernel Version	3.0.101-0.31-default
OS Version	11
OS Platform	linuxx86_64
OS Release	SUSE Linux Enterprise Server 11 (x86_64)
GLIBC Version	2.11.3
OS Type	SUSELinux
OS Patch Level	3
Architecture	x86_64

SAP Host Agent Information

It is highly recommended to have the latest version of SAP Host Agent. Find more information in the related SAP Notes listed below:

 1) SAP Note 1031096 - Installing Package SAPHOSTAGENT
2) SAP Note 1473974 - Using the SAP Host Agent Auto Upgrade Feature

Parameter and User-Id Summary

This section provides an overview on all relevant system parameters and user-IDs.

Parameter Description	Parameter Value	Note
Master Password	<Master Password>	You specify the master password during the creation of the instance in the SAP Cloud Appliance Library.
Server domain	<Domain Name>	Domain name as specified in your VPC DHCP Option Set.
Private key	<Private Key File>	The private key file is provided during the creation of the instance in the SAP Cloud Appliance Library. It should be used for SSH access to the host.
Server IP Address	<IP Address>	IP address of your instance from the SAP Cloud Appliance Library.
Host name	vhcalhdbdb, vhcalerpci, vhcalerpcs, vhcalwdpwd bihost	Predefined name of the host on which HANA, ABAP, Web Dispatcher and BIP are running.

Parameter Description	Parameter Value	Note
Root user / password	root / <Private Key File>	Default OS Administrator user for Linux SUSE.
HDB System ID	HDB	-
HDB Instance Number	02	-
DB User / Password	SYSTEM / <Master Password> SAPERP / <Master Password> BPINST / Welcome1	-
ABAP System ID	ERP	-
ABAP Instance number	00	-
ABAP Client/ User / Password	000 / SAP* / <Master Password> 000 / DDIC / <Master Password> 001 / SAP* / <Master Password> 001 / DDIC / <Master Password>	-
ABAP Administrator OS level / Password	erpadm / <Master Password>	-
SAP System Administrator	sapadm / <Master Password>	-
Diagnostic Agent User	daaadm / <Master Password>	-
BIP User / Password	administrator / Welcome1	-

OS Users and Groups

If you need OS access, you must use SSH connectivity. Use the default user root and the private key for the instances, which are downloaded while your landscaped instance is activated from SAP Cloud Appliance Library.

Parameter ID	Parameter Value	Note
OS User Name	root	The default OS Administrator user for Linux SUSE.
OS Password	<none>	Use the private key (downloaded during the activation of the instance in SAP Cloud Appliance Library) to log on with root user.

The administration users for HANA, ABAP and BOBJ on operating system level are defined as follows:

Parameter ID	Parameter Value	Note
HANA administrator name	hdbadm	Additional user for HANA lifecycle management – start/stop, administration, functions, recovery.
HANA administrator password	<Master Password>	The password is the same as the master password provided during instance creation in the SAP Cloud Appliance Library.
ABAP administrator name	erpadm	Additional user for ABAP lifecycle management – start/stop, administration, functions, recovery.
ABAP administrator password	<Master Password>	The password is the same as the master password provided during instance creation in the SAP Cloud Appliance Library.
BOBJ administrator name	bipadm	Additional user for BOBJ lifecycle management – start/stop, administration, functions, recovery
BOBJ administrator password	<Master Password>	The password is the same as the master password provided during instance creation in the SAP Cloud Appliance Library.

Additional users on operating system level are:

Parameter ID	Parameter Value	Note
SAP System Administrator	sapadm	
SAP System Administrator password	<Master Password>	The password is the same as the master password provided during instance creation in the SAP Cloud Appliance Library.
<SID>adm User Group	sapsys	Group containing all <SID>adm users (should be a group in a central user storage like LDAP, NIS, or Active Directory)
SAP System Administrator	daaadm	
SAP System Administrator password	<Master Password>	The password is the same as the master password provided during instance creation in the SAP Cloud Appliance Library.

2 Solution Provisioning in SAP Cloud Appliance Library

If you have a user in SAP Cloud Appliance Library, you need to meet the following prerequisites before starting to use SAP Cloud Appliance Library:

- Cloud Provider Configurations

You have a valid account in one of the cloud providers supported by SAP Cloud Appliance Library. If you already have an active cloud provider account, you can proceed directly with the next section. Otherwise, navigate to the cloud provider home page and sign up.

For more information about the supported cloud providers, see FAQ page.

- Navigate to SAP Cloud Appliance Library

Open SAP Cloud Appliance Library in your web browser using the following link: https://cal.sap.com

For more information on how to use solutions in SAP Cloud Appliance Library, see the official documentation of SAP Cloud Appliance Library (choose the *Support → Documentation* link and select the ⊞ *(Expand all)* button to see all documents in the structure). You can also use the context help in SAP Cloud Appliance Library by choosing *Help* panel on the right side of the screen.

3   Installing Client Software

3.1   ABAP Client Software

Ensure that you have installed the latest and appropriate SAP frontend components.

The download path below leads you to an overview on how to install SAP frontend components and how to apply patches. On the navigation level *SAP Frontend Components*, you can select the SAP frontend components depending on your requirements.

To download the SAP frontend components, go to the Software Distribution Center (SWDC) on the SAP Service Marketplace.

3.1.1   SAP GUI

Ensure that you have installed the latest version of SAP GUI and of the SAP Scripting Engine.

Open the SWDC page https://support.sap.com/swdc. Go to *Support Packages and Patches → Browse our Download Catalog → SAP Frontend Components*.

3.1.2   SAP NetWeaver Business Client (optional)

Open the SWDC page https://support.sap.com/swdc. Choose *Support Packages and Patches* and go to *Browse our Download Catalog → SAP Frontend Components → Netweaver Business Client → NWBC NW Business Client 4.0.*

3.1.3   ABAP Development Tools (ADT) (optional)

The installation package for the ABAP Development Tools (ADT) can be found at https://tools.hana.ondemand.com/ . You can use the HANA Studio (Revision 74 or higher) as Eclipse platform.

3.2   SAP HANA Studio and SAP HANA Client

For detailed instructions, refer to http://help.sap.com/hana_platform. Please check especially the SAP HANA Client Installation Guide. The SAP HANA Client has to be installed for all the users who will access the data in HANA by using some kind of frontend tools, as for example Excel, BOBJ Clients, etc.

The software package containing the SAP Hana Studio includes the SAP HANA Administration and Modeling tool.

The software package containing the SAP HANA Client includes SDK's for JDBC, ODBC, ODBO and Python DB API, so that you can build client applications.

You can download the SAP HANA Studio and Client for all available operating systems from the SAP Support Portal by using the following procedure:

1. On your browser, enter the following URL for the SAP Support Portal: http://support.sap.com/swdc
   Choose *Software Downloads* → search for Software (link on the right hand side)

2. In the *Search Term* field, enter the following string:

    1. for the SAP HANA Studio: IMC_STUDIO100

    2. for the SAP HANA Client: IMDB_CLIENT100

3. Choose *Search*.

4. From the list of archives, download the archive according to your OS and the latest revision (e.g. IMC_STUDIO100_nn – nn is the revision number).

5. Unpack the files with SAPCAR and run the hdbsetup.exe installers.

3.3   SAP BusinessObjects BI Platform Client Tools (optional)

To view the reports from HANA Live RDS V5, there is no installation needed from client side. As long as you have a browser and access to the BI Platform, you can view the report results.

To adopt reports in your BusinessObjects Enterprise system, you must install SAP BusinessObjects BI platform client tools on your local windows environment.

To download SAP BusinessObjects BI platform client tools 4.1 SP05, go to the SAP Software Download Center (SWDC) on SAP Support Portal: https://support.sap.com/swdc

Software Download → Installation and Upgrades → Browse Our Download Catalog → Analytics Solutions →

SBOP BUSINESS INTELLIGENCE PLATFORM (SBOP ENTERPRISE) → SBOP BI PLATFORM (ENTERPRISE) →

SBOP BI PLATFORM 4.1 → Installation and Upgrades → WINDOWS

4 Connecting to Your Solution

4.1 Connecting to SAP ERP / SAP HANA

4.1.1 Release and Support Package level

[Main Component]: SAP HANA Platform Edition 1.0

[Stack-no. of Main Component]: SPS09

[Localized Country]: USA

[Language]: EN

[Main Component]: SAP enhancement package 7 for SAP ERP 6.0

[Stack-no. of Main Component]: SPS08

[Localized Country]: US, Germany, China

[Language]: all standard languages

4.1.2 Mapping hostnames to IP address

⬆️ Your Amazon VPC setup needs to have a DHCP Option Set, which defines a domain-name <Domain Name>. If this is not the case, create the DHCP Option set, terminate your CAL instance and create a new one. This is necessary as <Domain Name> is used in the CAL instance creation process.

When creating a CAL instance, the solution is deployed to a server with the predefined virtual host names vhcalhdbdb, vhcalerpci, and vhcalerpcs and to a second server with the virtual host name bihost. You are also provided with <IP Addresses> that allow you to access the servers. You can find the <IP Address> of the respective servers by selecting the name of your instance in the SAP Cloud Appliance Library. ABAP application server ERP and BI platform server BIHOST reach the HANA server HDB with the help of an entry for vhcalhdbdb in its local /etc/hosts file.

You still need to publish a mapping between the server names and the IP address in your network. You could do this within your Domain Name Service (DNS) setup or adjust the hosts file on the client.

The following steps describe how to adjust the hosts file on the client:

3. Open the *hosts* file of your operating system as administrator:
    o For Windows operating system: Open the *Start menu*, type
       notepad c:\windows\system32\drivers\etc\hosts
       and hit *Ctrl Shift Enter*.

o For Linux operating system: /etc/hosts

4. Enter the following lines in the hosts file and save it:

    # ERP and HDB

<IP Address ERP/HDB server>	vhcalerpci	vhcalerpci.<Domain Name>
<IP Address ERP/HDB server>	vhcalerpcs	vhcalerpcs.<Domain Name>
<IP Address ERP/HDB server>	vhcalhdbdb	vhcalhdbdb.<Domain Name>

    # BI Platform

    <IP Address BI Host server>   bihost bihost.<Domain Name>

The predefined local domain name is dummy.nodomain. If you do not want to change the default settings, you can map the hosts name to IP addresses as the following:

    # ERP and HDB

    <IP Address ERP/HDB server> vhcalerpcs vhcalerpcs.dummy.nodomain vhcalerpci vhcalerpci.dummy.nodomain vhcalhdbdb vhcalhdbdb.dummy.nodomain

    # BI Platform

    <IP Address BI Host server>   bihost bihost.dummy.nodomain

Working with the dummy.nodomain might require changes in your web browser in case there is a web proxy in place. You need to set the Proxy Server as follows:

Address	<your proxy server> for example proxy
Port	<your proxy port> for example 8080

Furthermore, you need to add the following to the Exceptions field: *.dummy.nodomain

In Microsoft Internet Explorer e.g., open *Tools → Internet Options*. Go to the *Connections* tab and choose *LAN settings* .

In the *Proxy server* section, carry out the following steps:
- Check *Use a proxy server for your ...*
- Maintain *Address* and *Port*
- Choose the *Advanced* button.

In section *Exceptions*, carry out the following steps:
- Add ;*.*dummy.nodomain* at the end of the entry field.
- Choose the *OK* button.

4.1.3 Connecting to ABAP via SAP GUI

Procedure

1. Start the SAP Logon.
2. Choose *New entry → User defined*.
3. In the *System wizard*, specify the following parameters:

Parameter ID	Parameter Value	Note
Application Server	<IP Address>	The IP address of the ERP instance from SAP Cloud Appliance Library
Instance Number	00	ABAP instance number used by the appliance.
System-ID	ERP	ABAP system id used by the appliance.
User Names and Passwords	Client 000: SAP*, <Master Password> Client 000: DDIC, <Master Password> Client 001: SAP*, <Master Password> Client 001: DDIC, <Master Password>	Default users

	Client 100 (BW client): BPINST, Welcome1
	Client 102 (Germany): BPINST, Welcome1
	Client 114 (China): BPINST, Welcome1
	Client 120 (US*): BPINST, Welcome1
	Client 180 (GW + AC): BPINST, Welcome1
	* US also contains the activated baselines
	  for Chemicals industry and
	  Discrete Manufacturing industry
		Activation / evaluation user for the different country clients

4.1.4 Connecting to HANA via SAP HANA Studio

Procedure

1. Start the installed SAP HANA Studio.

2. Open the *Navigator* view and right click on this view. Then choose *Add System*.

3. In the *System wizard*, specify the following parameters:

Parameter ID	Parameter Value	Note
Hostname	<IP Address>	The IP address of the HANA instance from the SAP Cloud Appliance Library
Instance Number	02	HANA instance number used for the appliance.
User Name	BPINST	For the connection to the DB
Password	Welcome1	

The system ID of the database is HDB. It is recognized automatically via the host name.

4.1.5 Connecting to Fiori Launchpad

The Fiori Launchpad follows the standard address format: https://<hostname>.<domain name>:<port>/sap/bc/ui5_ui5/ui2/ushell/shells/abap/fiorilaunchpad.html

After you have mapped the IP address and hostname, you can access the default Fiori Launchpad at the link below, in case you have not changed any settings:

https://vhcalerpcs.dummy.nodomain:44301/sap/bc/ui5_ui5/ui2/ushell/shells/abap/fiorilaunchpad.html

In case you have problems to access HTML GUI tile, you can also access the Fiori Launchpad via:

https://vhcalerpci.dummy.nodomain:44301/sap/bc/ui5_ui5/ui2/ushell/shells/abap/fiorilaunchpad.html

Parameter ID	Parameter Value	Note
User Name	BPINST	For the connection to the DB
Password	Welcome1	
Client	102 - DE 114 - CN 120 - US	Depending on your desired client

4.2 Connecting to SAP BusinessObjects BI Platform

4.2.1 Connecting to BI Launchpad

Procedure

If you have configured your own domain and ports, please refine your own BI Launchpad address as the following:
https://bihost:<port>/BOE/BI
If you have not changed the predefined domain and ports, you can use the default access:

https://bihost:8443/BOE/BI

Parameter ID	Parameter Value	Note
Authentication	Enterprise	
User	BPINST	
Password	Welcome1	

4.2.2 SAP BusinessObjects Enterprise System Setup and Preparation

4.2.2.1 Release and Support Package level

The deliverables of SAP packages were developed and tested in a system landscape with specific release and support package (SPS) levels. When connecting other systems to this image, check the required product versions of this solution below.

 [Main Component]: SBOP BI PLATFORM 4.1
[Stack-No. of Main Component]: Support Package Stack 05
[Localized Country]: All
[Language]: All

4.2.3   Check SAP BusinessObjects BI Platform Version

Procedure

1. Logon to SAP BusinessObjects Enterprise Console.

   > If you have not changed the predefined domain and ports, you can use the default access:

   > https://bihost:8443/BOE/CMC.

   > If you have configured your own domain and ports, please refine your own BI Launchpad address as the following: https://bihost:<port>/BOE/CMC.

   > On the *Logon* screen, first select *Enterprise* as *Authentication* type, and enter your user name and password.

2. In the upper-right corner, expand *Help* and choose *About*.

3. You will see a detailed product information and the corresponding version.

4.2.4   Check SAP BusinessObjects BI Platform Status

Procedure

1. Logon to *SAP BusinessObjects Enterprise Console*.

2. Choose *Monitoring* from the drop down list under *Central Management Console*.

3. Check for *Overall Health* and *Individual Server Health*. All servers should have status OK with green light.

4. The processes below are only needed if you find individual servers with a red/gray light:

5. Choose *Servers* from drop down list under *Central Management Console*.

6. Go to *Nodes*.

7. Right click on *bihost* and choose *Restart Server*.

8. Right click on *bihost* again and choose *Enable Server*.

5 Evaluate Business Content and Processes for Pre-Deployed Scenarios

On the Service Market Place pages for SAP S/4HANA, on-premise enterprise edition (http://tiny.cc/trys4h), you have access to all relevant documents and links for each Rapid-deployment Solution that is included.

You can access the business process documentation (BPD) for each process through the Content Libraries of the Rapid-deployment Solutions.

Use the **Demo Guide** and the business process documentation (BPD) of the different Rapid-deployment Solutions to evaluate the processes in the system.

If you want to use SAP HANA Live reports you have to refer to the ERP / baseline master data.

6   Security Aspects

Be aware that creating your instances in the public zone of your cloud computing platform is convenient, but less secure. Ensure that only port 22 (SSH) is opened while working with Linux-based solutions, and that only port 3389 (RDP) is opened while working with Windows based solutions. In addition, we also recommend you to limit the access to your instances by defining a specific IP range in the Access Points settings, using CIDR notation. A more complex, but also more secure alternative is to set up a virtual private cloud (VPC) with VPN access, as described in this tutorial on SCN.

The list below describes the ports opened for the security group formed by the server components of your solution instance. To access back-end servers on the operating system (OS) level, use the following information:

Protocol	Port	Description
SSH	22	Used for SSH connection to Linux-based servers

You must change the initial user passwords provided by SAP when you log on to the system for the first time.

Note that when using **HANA based appliances**, HANA systems are not installed individually, but **cloned from a template system**. As a consequence of this cloning process, the existing root keys are cloned. For more information, see this: SAP Note 2134846 - HANA encryption key handling during system cloning.

General Security Guidelines

To access the latest version of the SAP ERP Central Component Security Guide, please refer to this link on the SAP Help Portal.

To access the latest version of the SAP BusinessObjects Platform 4.1 SPS05 security guide, please refer to this link on the SAP Help Portal.

www.sap.com/contactsap