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# Getting Started with Hybris Commerce 6.4 on HANA



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# 1 Solution Information

This guide provides general information you need to use the solution SAP Hybris Commerce 6.4.

## 1.1 Installed Products

You get access to a system (landscape) that has been built using the following installation media:

1. SUSE Linux Enterprise Server 12 (x86\_64)  
VERSION = 12  
PATCHLEVEL = 1
2. java version "1.8.0\_66"  
Java(TM) SE Runtime Environment (build 8.1.014)  
SAP Java Server VM (build 8.1.014 25.51-b02, Dec 28 2015 11:19:52 - 81\_REL - optU - linux amd64 - 6 - bas2:260275 (mixed mode))
3. SAP HANA Version 2.00.000.00.1479874437
4. Hybris Commerce 6.4
5. Data Hub
  - a. Apache Tomcat 7.0.68
  - b. Data Hub version: 6.4.0.0-RC5

## 1.2 Overview

This is a standard installation, with no customization, of Hybris Commerce recipe "sap\_aom\_som\_b2b\_b2c" (Asynchronous and synchronous order management for B2B and B2C scenarios with SAP ERP). The system also contains a standalone installation of Data Hub, which is integrated with Hybris Commerce. The database used for both Data Hub and Hybris Commerce is HANA and is sitting on the same server.

Please see following link for the guide to access the HANA platform:

[https://caldocs.hana.ondemand.com/caldocs/help/Gettind\\_Started\\_HANA20\\_SP00.pdf](https://caldocs.hana.ondemand.com/caldocs/help/Gettind_Started_HANA20_SP00.pdf)

The system is intended to be integrated with SAP ERP, CRM or S4HANA for demo purposes. The solution comes following storefronts preconfigured:

1. B2B Powertools Storefront  
<https://help.hybris.com/6.4.0/hcd/8ac3b5888669101489d0cef38ed0f5bd.html>
2. B2C Electronics Storefront  
<https://help.hybris.com/6.4.0/hcd/8ad2191386691014adb2f9b39e5be002.html>
3. B2C Apparel UK/DE Storefront  
<https://help.hybris.com/6.4.0/hcd/8ac019f2866910148ea2ab96312caf77.html>

## 2 Accessing the Solution

### 2.1 Overview

This is a single server solution with HANA, Hybris Commerce and Data Hub on the same host. Once the instance is activated, HANA, Data Hub and Hybris commerce are automatically started and is ready to be used. See section below for access URLs.

### 2.2 Hybris Application Server Details

Before you can access Hybris Commerce Backoffice and Storefronts, you must add the virtual hostname and IP address to your /etc/hosts file. Example:

<IP address of Instance> vhcalthybris.dummy.nodomain

**xx.yy.zz.oo vhcalthybris.dummy.nodomain**

“vhcalthybris.dummy.nodomain” as the host name for the storefronts. Without this, the Following URLs can not be accessed:

Hybris Commerce Backoffice: <https://vhcalthybris.dummy.nodomain:9002/backoffice/>

Hybris Administration Console: <https://vhcalthybris.dummy.nodomain:9002/hac/>

#### 2.2.1 Hybris and HANA DB User Credentials

Name	Value	Description
Username	Admin	Administrative Password for Hybris Commerce Backoffice and Hybris Administration Console (HAC).
Password	nimda	Administrative Password for Backoffice and HAC.
Username	hybris	OS User for Hybris Admin
Password	Appliance	During solution provisioning the cal.sap.com instance creation wizard allows you to set a password. This functionality is not provided using this solution. It is set to Appliance creating the instance.
User	HYBRISADM	HANA Database Access user. This user is used by Hybris Application server to connect to HANA Database. The parameters are set in Hybris local.properties file.
Password	Appliance	Password for the HYBRISADM. This credential can be used to connect to HANA DB using HANA Developer Studio.

Please wait 10 to 15 minutes before trying to access Hybris Storefront and Backoffice.

## 2.2.1 Powertools Storefront User Credentials

B2B Powertools Storefront:

<https://vhcalhybris.dummy.nodomain:9002/yb2bacceleratorstorefront/?site=powertools&clear=true>

Description	Email (Login)	Unit	Group
Admin A	<a href="mailto:linda.wolf@rustic-hw.com">linda.wolf@rustic-hw.com</a>	Rustic	b2badmingroup
Admin B	<a href="mailto:lars.bauer@rustic-hw.com">lars.bauer@rustic-hw.com</a>	Rustic Services	b2badmingroup

For more details on the Powertools Accelerator users and groups, please see:

<https://help.hybris.com/6.4.0/hcd/8ae789ad86691014afccba59ba613e9.html>

B2C Electronics Storefront:

<https://vhcalhybris.dummy.nodomain:9002/yacceleratorstorefront/?site=electronics&clear=true>

B2C Apparel UK/DE Storefront:

<https://vhcalhybris.dummy.nodomain:9002/yacceleratorstorefront/?site=apparel-uk&clear=true>

<https://vhcalhybris.dummy.nodomain:9002/yacceleratorstorefront/?site=apparel-de&clear=true>

## 2.3 Database Server Details

Please see following link for the guide to access the HANA platform:

[https://caldocs.hana.ondemand.com/caldocs/help/Gettind\\_Started\\_HANA20\\_SP00.pdf](https://caldocs.hana.ondemand.com/caldocs/help/Gettind_Started_HANA20_SP00.pdf)

## 2.4 OS Users and Groups

Name	Description
hybris	OS User for Hybris Commerce and Datahub
hdbadm	SAP database administrator
hybris	Group for Hybris Commerce and Data Hub Administrative user: hybris

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## 2.4.1 Accessing Your Instance on OS Level

For information how to access a solution on OS level, go to [this FAQ wiki page](#) and check this question: How to connect to a running instance via the secure shell protocol (SSH)?

Once logged in as root, or your user, please switch to user *hybris* to work with Hybris Commerce and Data Hub application, and user *hdbadm* to work with HANA.

## 2.4.2 Start and Stop Hybris Commerce from OS

```
sid-hdb:~ # su - hybris
hybris@sid-hdb:~> cd /cal/plugins/hyc/6.4/hybris/bin/platform/
hybris@sid-hdb:/cal/plugins/hyc/6.4/hybris/bin/platform> ./setantenv.sh
hybris@sid-hdb:/cal/plugins/hyc/6.4/hybris/bin/platform> ./hybrisserver.s start
```

```
sid-hdb:~ # su - hybris
hybris@sid-hdb:~> cd /cal/plugins/hyc/6.4/hybris/bin/platform/
hybris@sid-hdb:/cal/plugins/hyc/6.4/hybris/bin/platform> ./setantenv.sh
hybris@sid-hdb:/cal/plugins/hyc/6.4/hybris/bin/platform> ./hybrisserver.sh stop
```

## 2.4.3 Start and Stop Data Hub from OS

```
sid-hdb:~ # su - hybris
hybris@sid-hdb:~> cd /cal/plugins/hyc/datahub/tomcat/bin/
hybris@sid-hdb:/cal/plugins/hyc/datahub/tomcat/bin> ./start.sh
```

```
sid-hdb:~ # su - hybris
hybris@sid-hdb:~> cd /cal/plugins/hyc/datahub/tomcat/bin/
hybris@sid-hdb:/cal/plugins/hyc/datahub/tomcat/bin> ./stop.sh
```

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## 3 Licenses

You can obtain Hybris Commerce License from SAP License Key Portal: <https://support.sap.com/en/my-support/keys.html>

### 3.1 Running Solution as a Trial for a Free Period

This solution can be used with a Free Trial License Agreement for the configured free period. You will be asked to agree to the Free Trial License Agreement during the instantiation steps.

Once you create the solution instance, the SAP system will generate a temporary license key that is sufficient for exploration purpose. After the expiration of the pre-installed temporary license a valid license is required to keep using the solution instance.

Note that you are not allowed to install license keys under the Free Trial License Agreement. You can continue the solution with the Product License Agreement any time prior to the end of the free period by unlocking it.

### 3.2 Running Solution with a Product License Key

To use the instance created from this solution under your own SAP Product License Agreements, you have to unlock the solution in SAP Cloud Appliance Library. As a prerequisite, you must own the required SAP Product licenses and need to purchase the SAP Cloud Appliance Library subscription package. For more information, see [Unlocking Solutions](#).

### 3.3 License Key Installation

To check the Product and the Version for your solution, go to the SAP License Keys application: <https://launchpad.support.sap.com/#/licensekey>

For more information about how to request and install product license keys, see [this blog](#).

To install the Hybris license file obtained from above link, use following commands:

```
sid-hdb:~ # su - hybris
hybris@sid-hdb:~> cd /cal/plugins/hyc/6.4/hybris/bin/platform/
hybris@sid-hdb:/cal/plugins/hyc/6.4/hybris/bin/platform> ./license.sh -install CPS.txt
```

Please see following link for the guide to access the HANA platform:

[https://caldocs.hana.ondemand.com/caldocs/help/Gettind\\_Started\\_HANA20\\_SP00.pdf](https://caldocs.hana.ondemand.com/caldocs/help/Gettind_Started_HANA20_SP00.pdf)

## 4 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 when working with Linux-based solutions and port 3389 (RDP) when working with Windows based solutions. In addition, we also recommend that you limit the access to your instances by defining a specific IP range in the Access Points settings, using [CIDR notation](#). The more complex but secure alternative is to set up a virtual private cloud (VPC) with VPN access, which is 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
RDP	3389	Used for RDP connection to Windows based servers
HTTP	9001	Hybris Commerce HTTP Access Port for browser
HTTPS	9002	Hybris Commerce HTTPS Access Port for browser
HTTP	8080	Data Hub HTTP Access Port for browser
SSH	22	Secure Shell (SSH) Port
HANA HTTP	80	HANA Web Server Port
HANA DB	1128	SAP Host Agent with SOAP/HTTP
HANA DB	1129	SAP Host Agent with SOAP/HTTPS
HANA	50013	HANA Application Server Port
HANA	50014	HANA Application Server Port
HDBSQL	30015	HANA Index Server Port
HANA HTTP	8000	HANA HTTP Port

You must change the initial user passwords provided by SAP when you log onto 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](#).

For more information about security vulnerabilities, see this [community page](#).



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## 5 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 the 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 the [FAQ page](#).

### - Navigate to SAP Cloud Appliance Library

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

For more information about how to use solutions in SAP Cloud Appliance Library, see the official documentation of SAP Cloud Appliance Library (choose [Support](#) → [Documentation](#) link and choose  (expand all) button to see all documents in the structure). You can also use the context help in SAP Cloud Appliance Library by choosing the [Help](#) panel from the right side.





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