

SAP Commerce Cloud = “**SAP Comm**” + **Cloud**

SAP Comm [New Name] = SAP Hybris [Old Name].

Hybris = Company [~23 Years].

SAP bought Hybris company in “**2013 Aug 1st**”.

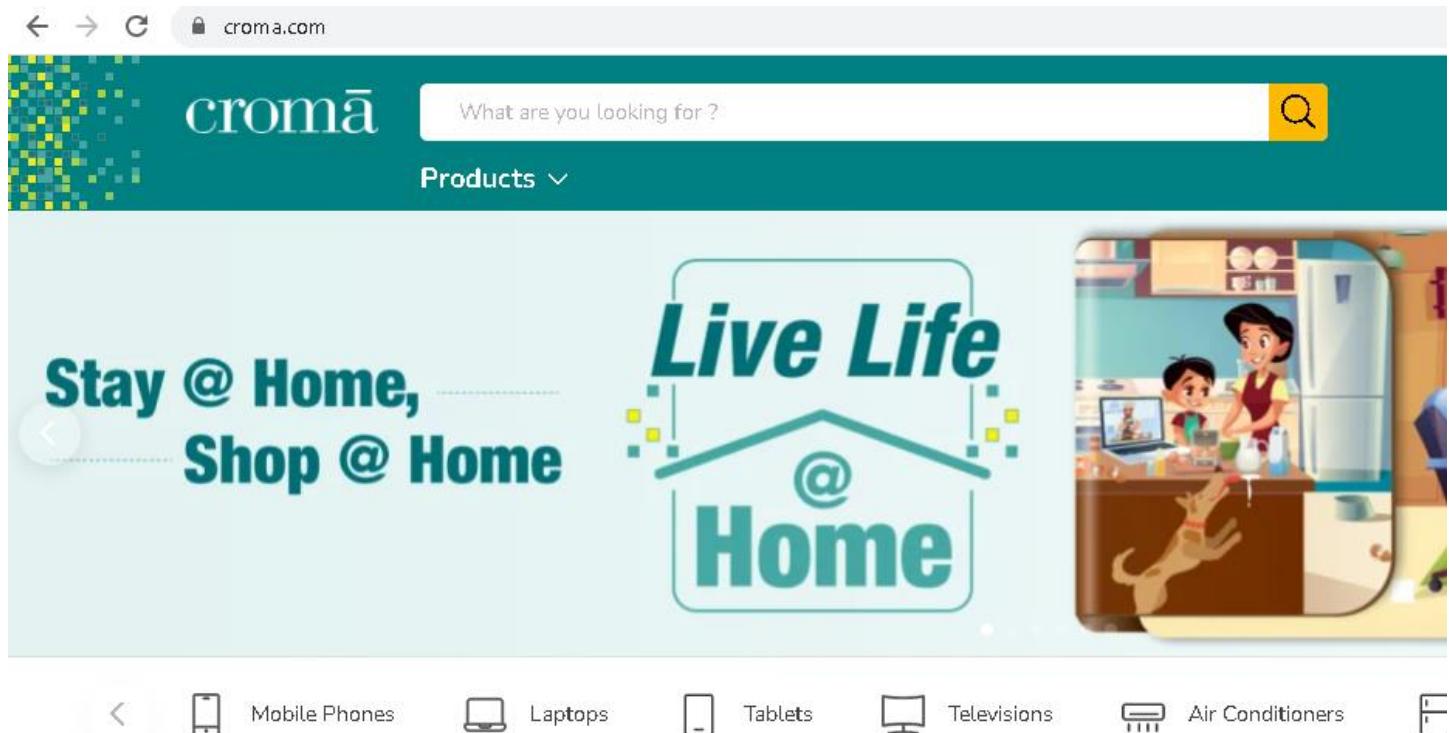
After SAP bought Hybris ... Still people use to call it as “SAP Hybris”.

Latter – SAP rename / calling “**SAP Hybris**” as “**SAP Comm**”.

Q = What is “**SAP Comm**” (or) What is the Purpose of “**SAP Comm**”?

Let’s say – we have a requirement to develop “Shopping Site (or) eComm Site [Croma.com / Shoppersstop.com / Reliancedigital.in /” then we use “**SAP Comm**”.

That means – By using “SAP Comm”... We can develop “Shopping Site (or) eComm Site”.



Req = Develop Shopping Site / eComm Site [Croma / Amazon / ...]?
Sol1 = We can write code from scratch & develop it.
Challenges =

- 1) Lots of time
- 2) Lots of code
- 3) Lots of resources
- 4) Lots of money
- 5) We can't deliver time to market
- 6) ===

Then what to do now? = Sol2
Instead of we develop site from scratch
We can use some templates provided by some companies.
Example = SAP Comm.
SAP Comm provides the templates / recipes.
-- Now what to do?
We need to install those templates / recipes.
== We can develop "eComm Site / Shopping site" easily by installing these recipes.

Q = SAP Comm purpose is developing “eComm Site / Shopping Site” [Croma / RelianceDigital / ...].

Do we need to develop this eComm Site from **scratch**? = **No need**.

Then what –

Right now we are planning to use “**SAP Comm**”.

This SAP Comm providing templates called “**recipes**”.

We need to install those recipes.

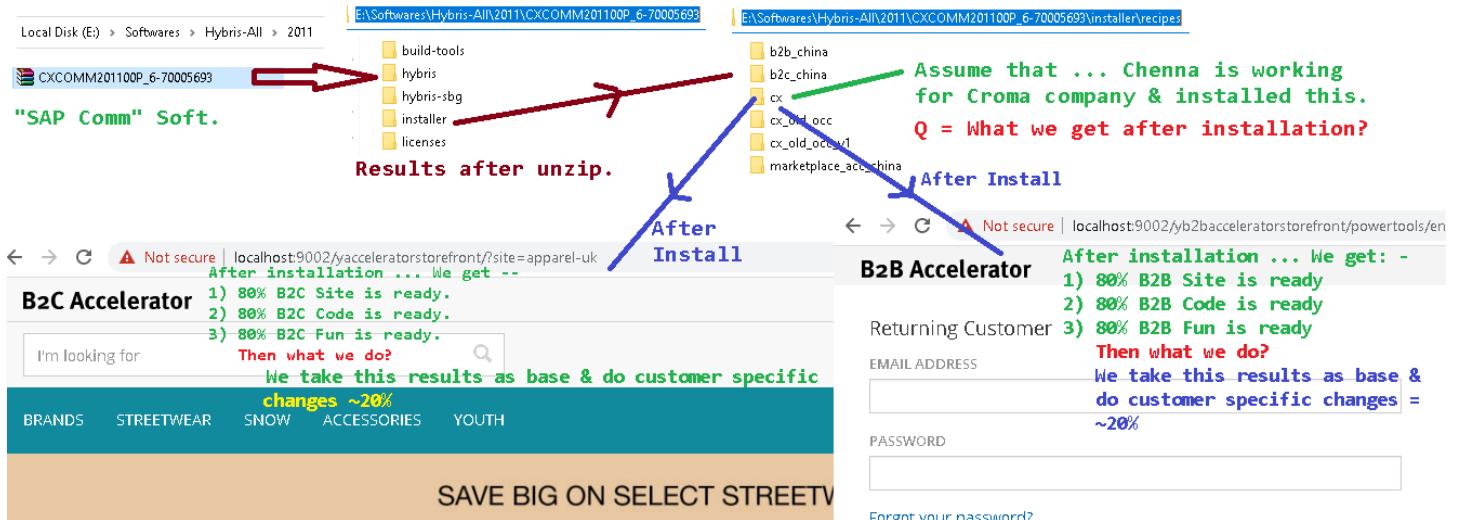
Q = Why to install “SAP Comm” / Recipes? (or) What we get after install “SAP Comm” / Recipes”?

Local Disk (E:) > Softwares > Hybris-All > 2011		
Name	Date modified	Type
CXCOMM201100P_6-70005693	21-04-2021 17:55	WinRAR ZIP a

**“SAP Comm” Software After download.
Given for us as a “ZIP File / Suite”.**

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Q = By using "SAP Comm" soft we can develop eComm Site easily. What does it mean?



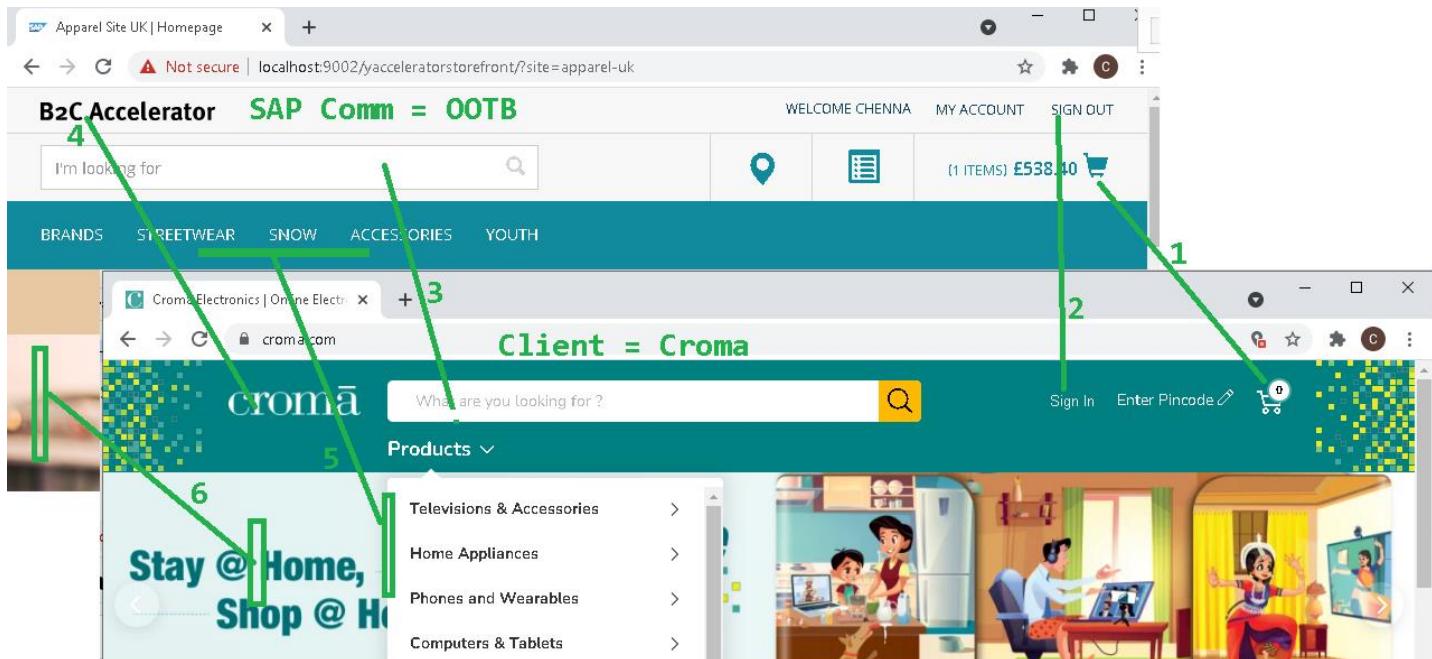
====> By using "SAP Comm" ... We can develop eComm Site easily.

That's why ... SAP Comm ==“eComm Soft / eComm Solution”.

Scenario = After installation, we get: -

- 1) **80% Site** is ready which is suitable for customer
- 2) **80% Code** is ready which is suitable for customer
- 3) **80% Fun** is ready which is suitable for customer

Example =

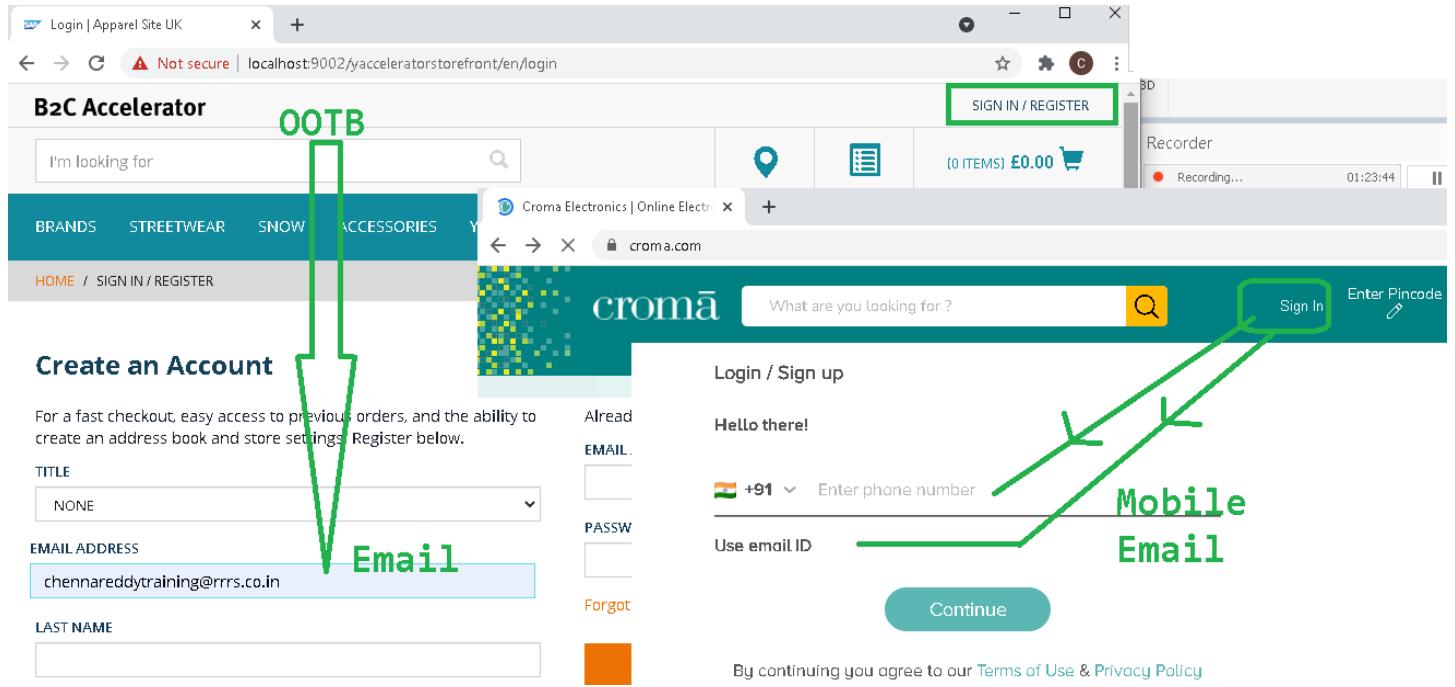


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Scenario = “80% Site ... 80% Code ... 80% Fun” given for us [OOTB].

We take this results as base & do customer specific changes [**~20%**] on Top of given [80% Site ... 80% Code ... 80% Fun].

Example =



Note =

By using “SAP Comm” – We can develop eComm Site easily. That’s why --

SAP Comm = eComm Solution / eComm Soft.

SAP Comm is also called “**PCM**” Software.

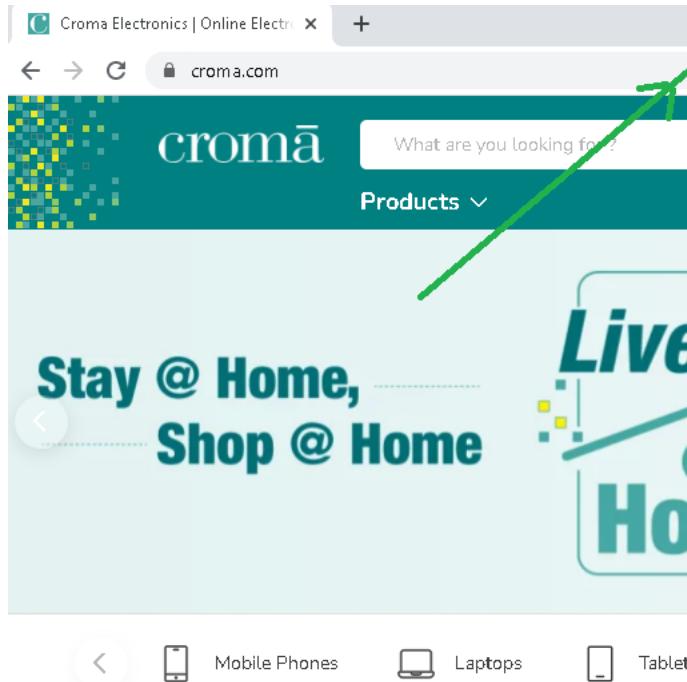
SAP Comm = eComm Sol / Soft + **PCM** Soft.

PCM = Product Content Management.

==== U take any eComm Site [Croma ... Lenovo ... Amazon ...], there will be 2 important things: -

- 1) **Products**
- 2) **Content**

Content =



This is called Content.

This content changes frequently? = Yes.

Q = Do u think that ... Development Team will do / manage this changes?
= No ... Then what?

In the companies, there will be specific people we call them as **Content Managers [CM]**.

These CM are responsible to manage this content.

Manage Content = Add Content / Update Content / Delete Content /

Q = Do u think that ... This CM are Technical? = No.

==== If CM is not Tech. then how can they manage this content?

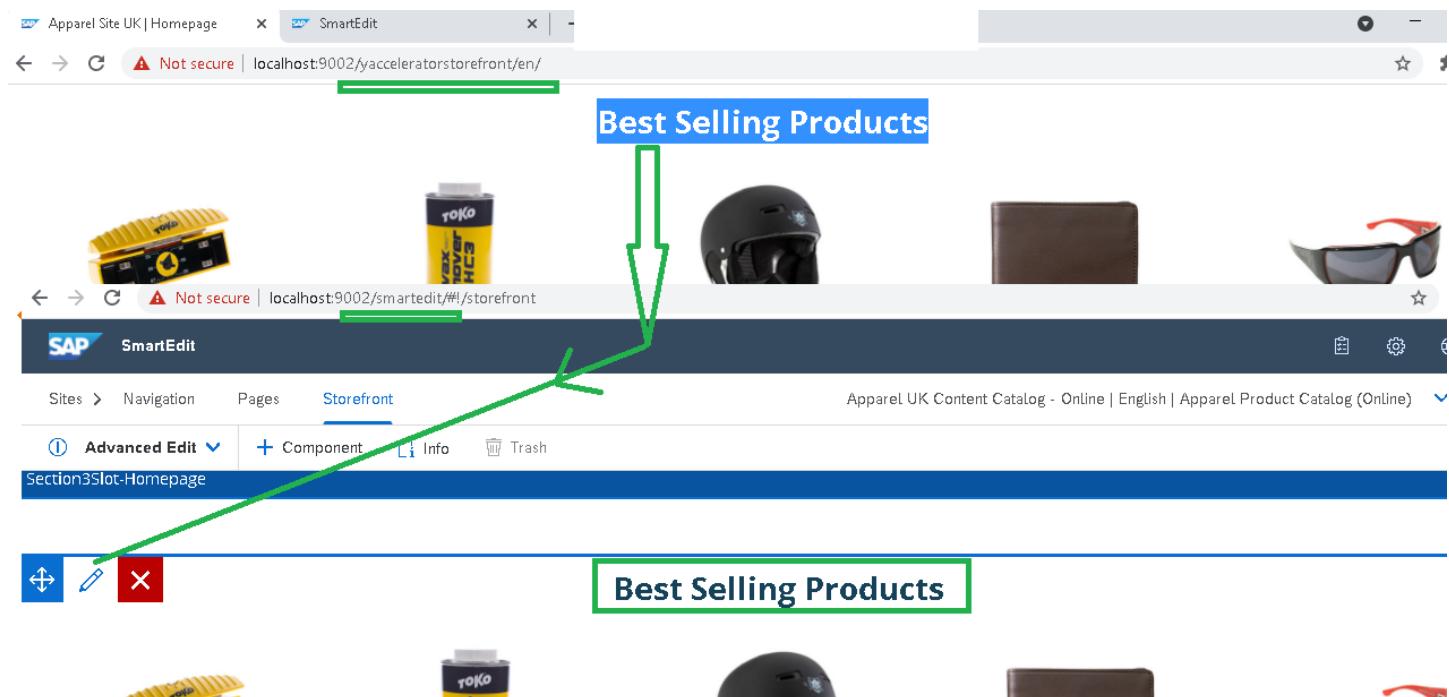
Ans = Right now we are planning to use "SAP Comm". This "SAP Comm" provides a small software called "**CMS Cockpit / SmartEdit**".

With the help of "SmartEdit" -- A Non Tech. person like CM Can manage the content easily.

CMS Cockpit = Old Versions [5.X / 6.X]

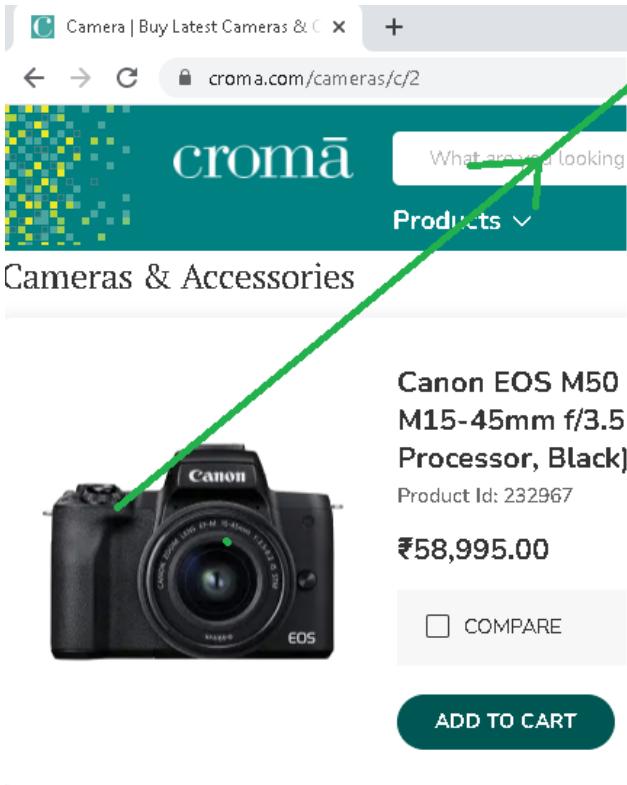
SmartEdit = New Versions [1808 / 1811 / 1905 / 2005 / 2011]

Example =



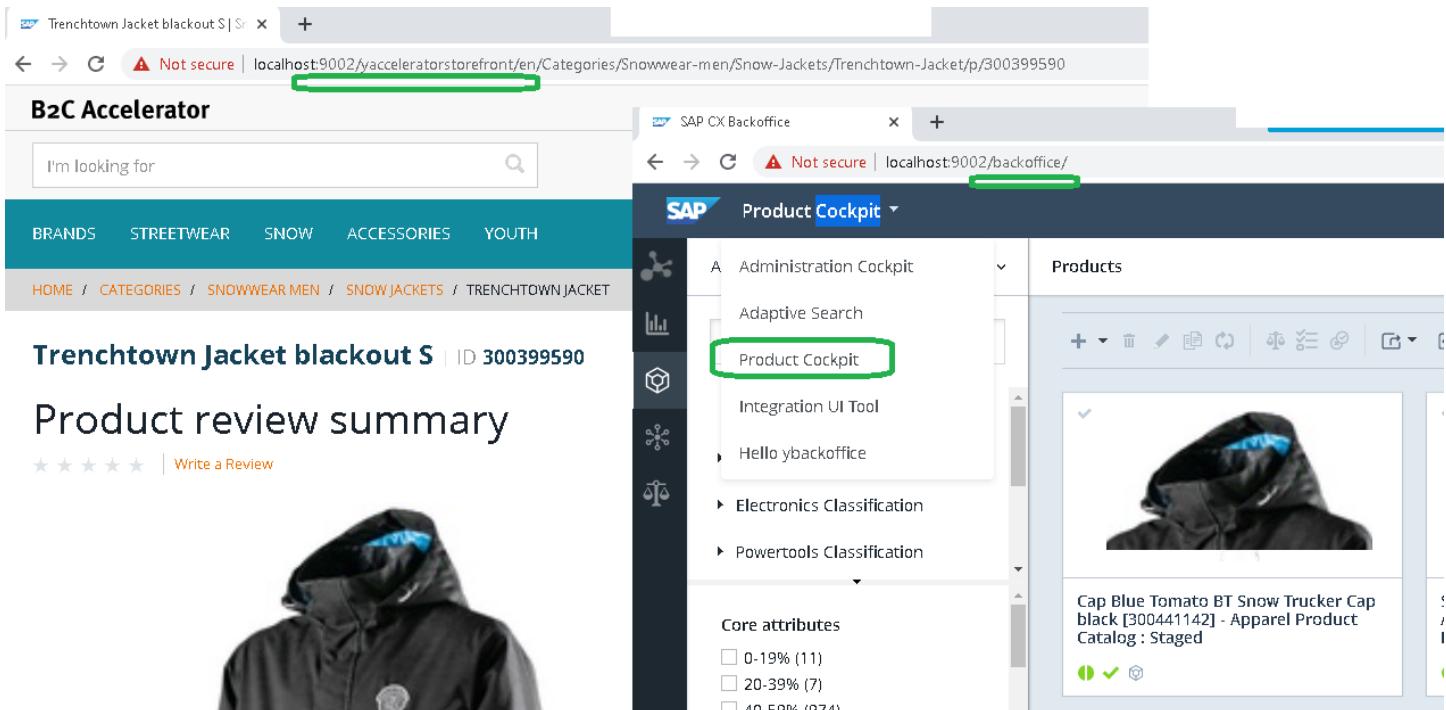
Hence ... By using "**SmartEdit**" – A Non-Technical person can manage [Add / Update / Delete / ...] the content easily.

Products =



This is called Product.
This Products changes frequently? = Yes.
Q = Do u think that ... Development Team will do / manage this changes? = No
Then what?
In the companies, there will be specific people we call them as Product Managers [PM].
These PM are responsible to manage this Products.
Manage Products = Add Product / Update Product / Delete Product ...
Q = Do u think that ... This PM are Technical? = No.
==== If PM is not Tech. then how can they manage this Products?
Ans = Right now we are planning to use "SAP Comm".
This "SAP Comm" provides a small software called "Product Cockpit".
With the help of "Product Cockpit" -- A Non Tech. people like PM Can manage the Products easily.
Old Versions [5.X / 6.X] = Product Cockpit is Separate URL.
New Versions [1808 / 1811 / 1905 / 2005 / 2011] = Product Cockpit is embedded with in Backoffice.

Example =



B2C Accelerator storefront showing a Trenchtown Jacket blackout S product page. SAP CX Backoffice Product Cockpit interface is overlaid, with the 'Product Cockpit' menu item highlighted.

Hence ... By using “Product Cockpit” – A Non-Technical person can manage [Add / Update / Delete / ...] the products easily.

Conclusion =

By using “SAP Comm” --- Content managers [CM] is able to manage the content easily.

For content purpose “SAP Comm” provides = **SmartEdit**.

Also – By using “SAP Comm” --- Product managers [PM] is able to manage the products easily.

For product purpose “SAP Comm” provides = **Product Cockpit**.

That's why ... “SAP Comm” is also called as “PCM” software.

====> “**SAP Comm**” === “eComm Sol / Soft” + PCM Soft.

Note =

SAP Comm Cloud == “SAP Comm” + **Cloud**.

SAP Comm === “eComm Sol / Soft” + PCM Soft.



The screenshot shows the homepage of Croma Electronics. At the top, there are two browser tabs: "Apparel Site UK | Homepage" and "Croma Electronics | Online Electr...". The main header features the "cromā" logo with a green abstract pattern to the left. To the right of the logo is a search bar containing the placeholder "What are you looking for?". Below the search bar is a dropdown menu labeled "Products". The main content area displays several products: a tall refrigerator, a white air conditioner unit, a front-loading washing machine, and a large flat-screen television. A green double-headed arrow points from the text "Assume that Croma we developed by using \"SAP Comm\"." to the Croma logo.

Assume that Croma we developed by using "SAP Comm".
After developing ... we need to deploy / host this.
== We can deploy / host in 2 ways: -

- 1) OnPremise
 - Client Location ...
 - Client Infra...
 - Everything client is responsible.
- 2) Cloud
 - Vendor Location ...
 - Vendor Infra...
 - Vendor is responsible.

Scenario = let's say – we want to develop one software for DRL company.
To develop the software what are all required?

- 1) API Coding [JavaNET ...]
- 2) Servers [Tomcat ... Web Logic ...]
- 3) Database [Oracle ... My SQL ...]
- 4) Operating System [Windows ... Linux ...]
- 5) Middleware [Web Methods Oracle Fusion ...]
- 6) Network
- 7) Runtime Environment's
- 8) =====

Q1 = Let's say – There are server challenges... client is responsible.

Q2 = Let's say – There are network challenges... client is responsible.

Q3 = Let's say – There are OS challenges... client is responsible.

=====

That's why – We have different teams [Network team ... OS team ... DB team...] in the companies.

That means --- If client is **OnPremise** Everything client is responsible.

Example =

OnPremise = Own House

Cloud = Rented House

OnPremise [Own House]	Cloud [Rented House]
1) Lots of initial investment is required [~2C]	1) No initial investment [~2L]. Just pay as you use.
2) Everything you [Client] are responsible. Example = Electricity problem. Water problem.	2) Vendor [Owner] is responsible. If water is not coming then you simply call the owner. Owner will help.

3) Move / Change are very difficult.	3) Just give 1 / 2 months' notice & move / change.
4) Disaster recovery – Client responsibility	4) Disaster recovery – Vendor will take care
5) Upgrades – Client is responsible.	5) Upgrades – Vendor is responsible

OnPremise =



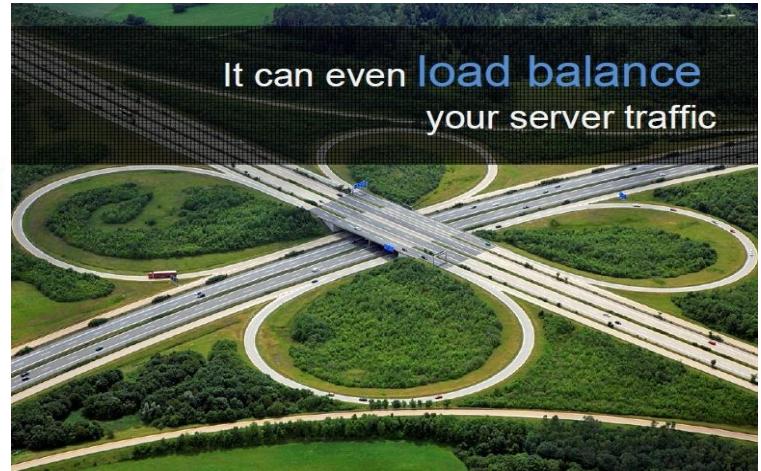
Cloud =



Pay as You Go



Just pay your **rent**
and utilities

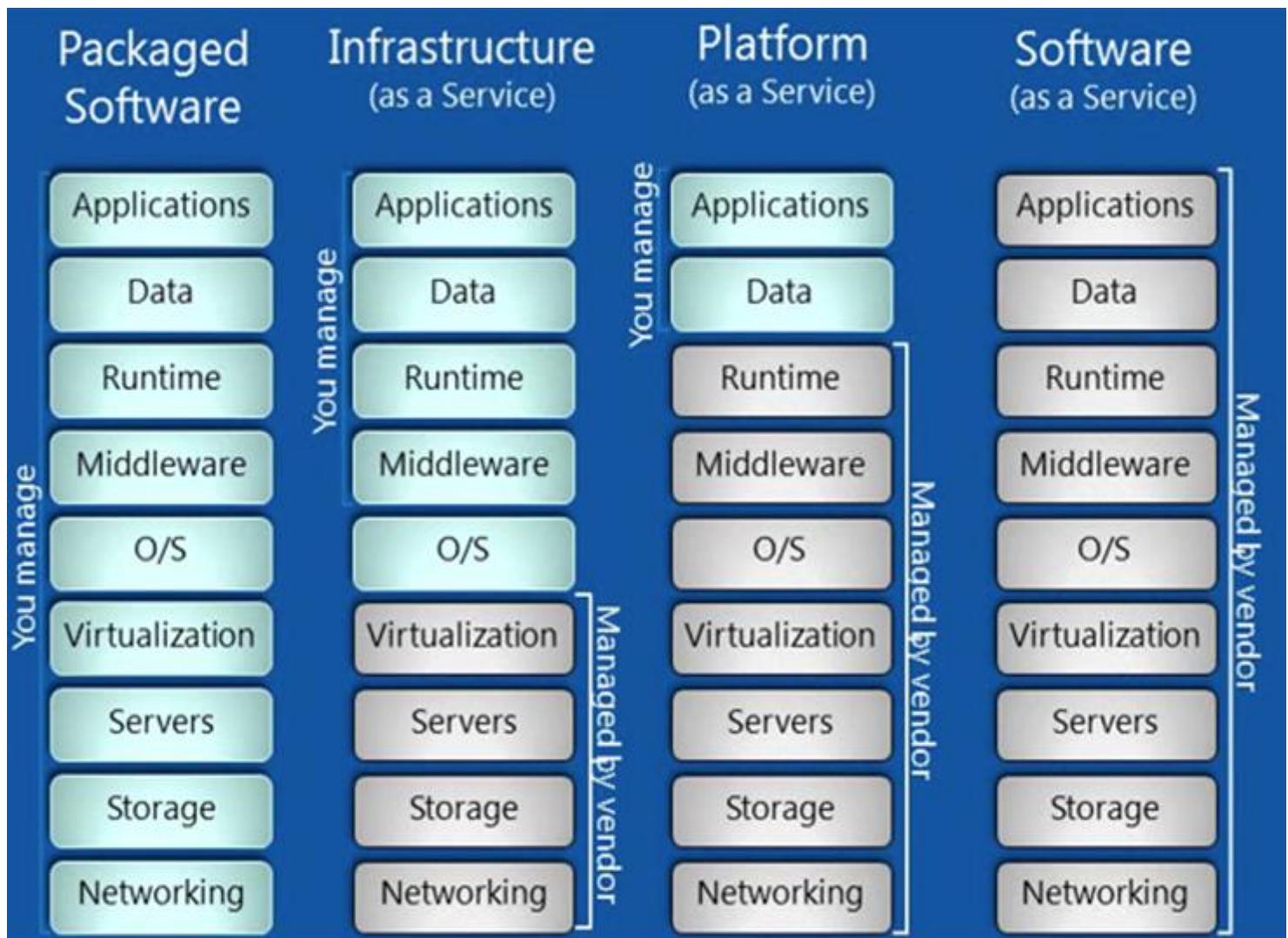


We have Cloud in 3 flavours: -

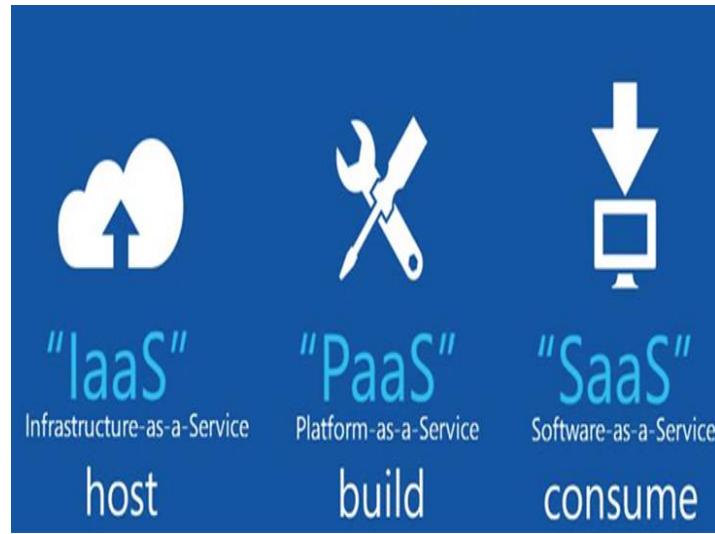
1) **IaaS**

2) **PaaS**

3) **SaaS**



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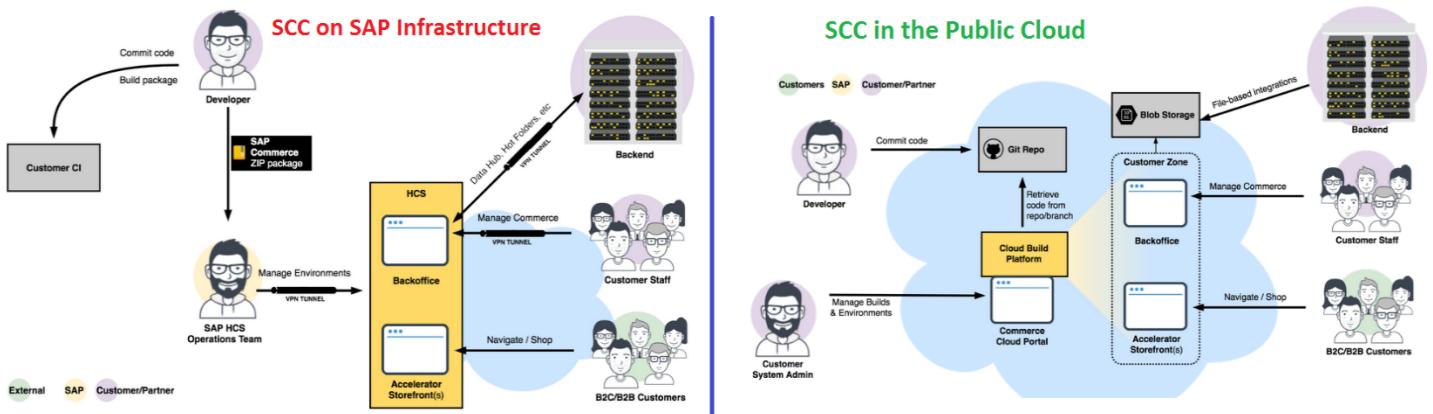


Conclusion =

SAP Comm Cloud = Develop eComm Site by using “SAP Comm” & deploy (or) host in cloud.

SAP Comm Cloud is available 2 flavours =

- 1) CCv1 = Private Cloud
- 2) CCv2 = Public Cloud



Scenario = SAP Comm is delivered for us as a “ZIP File / Suite”.

Local Disk (E:) > Softwares > Hybris-All > 2011 >

Name	Date modified
CXCOMM201100P_6-70005693	21-04-2021 17:55

SAP Comm = Is also called as “Platform”.

Whenever we say YYY is the platform.

Meaning is – By using YYY we can develop “End – End” solution.

That means – By using “SAP Comm” – We can develop “End – End” solution.

Q = Can we develop “End – End” solution by using “Java / .NET”?

Q1 = How to write the code?

Ans = Java / .NET provides to API to write the code.

Q2 = After writing the code – How to do the build?

For build purpose – We can use tools like “ANT / Maven / ...”.

Java / .NET will not provide any “ANT / Maven / ...”.

That’s why – In case of Java / .NET project we separately download “ANT Tool / Maven Tool / ...” & attach / use it.

Q3 = After build – How to deploy the code into Server?

We generally deploy the code into “Tomcat / Web logic /”.

Java / .NET will not provide any Servers like “Tomcat / Web Logic ...”.

That’s why – In case of Java / .NET project we separately download “Tomcat / JBoss / ...” & attach / use it.

Q4 = After deploy – It requires some kind of Database?

Database = Oracle / MS SQL / HSQL / HANA / ...

Java / .NET will not provide any Databases.

That's why – In case of Java / .NET project we separately download “Oracle DB / MS SQL DB / ...” & attach / use it.

== That means - To develop a Site [End – End solution], what are the minimum things required?

- 1) For **Coding** Purpose = API [Java / .NET / ...]
- 2) For **Build** Purpose = ANT / Maven / ...
- 3) For **Deploy** Purpose = Tomcat / JBoss / ...
- 4) For **Database** Purpose = Oracle / MS SQL /

Note = Java / .NET provides only **API**. That's why by using “Java / .NET” we can't develop “End – End” solution.

Q = Can we develop “End – End” solution with “**SAP Comm**”? = **Yes**.

Q1 = How to write the code?

“SAP Comm” **provides Exts** for writing the code.

Java / .NET = We create project & write the code.

“SAP Comm” = We create Exts & write the code.

Java / .NET – Projects == “**SAP Comm**” – **Exts**

Local Disk (E:) > rrrssoftware > hybris > bin > modules > base-accelerator >			
Name	Exts	Date modified	Type
deprecated			yacceleratorfulfilmentprocess
yacceleratorbackoffice			yacceleratorinitialdata
yacceleratorcore			yacceleratorstorefront
yacceleratorfacades			yacceleratortest
			yaddon

Q2 = After writing the code – How to do the build?

For build purpose – We can use tools like “**ANT / Maven / ...**”.

“SAP Comm” by default comes with “**ANT Tool**” for build purpose.

Q = Where can we see the “ANT” details?

Local Disk (E:) > rrrssoftware > hybris > bin > platform >		
Name	Date modified	
.externalToolBuilders	02-11-2020 16:57	
.settings	02-11-2020 16:57	
apache-ant	02-11-2020 16:57	

Q3 = After build – How to deploy the code into Server?

We generally deploy the code into “Tomcat / Web logic /”.

“SAP Comm” by default comes with “**Hybris Server**” for deployment.

This “Hybris Server” is built on top of “Apache”.

Q = Where can we see the “Hybris Server” details?

Local Disk (E:) > rrrssoftware > hybris > bin > platform >		
Name	Date modified	Type
.externalToolBuilders	02-11-2020 16:57	File folder
hybrisserver	02-11-2020 16:12	Windows Batch File
hybrisserver.sh	02-11-2020 16:12	SH File
license	02-11-2020 16:12	Windows Batch File
license.sh	02-11-2020 16:12	SH File

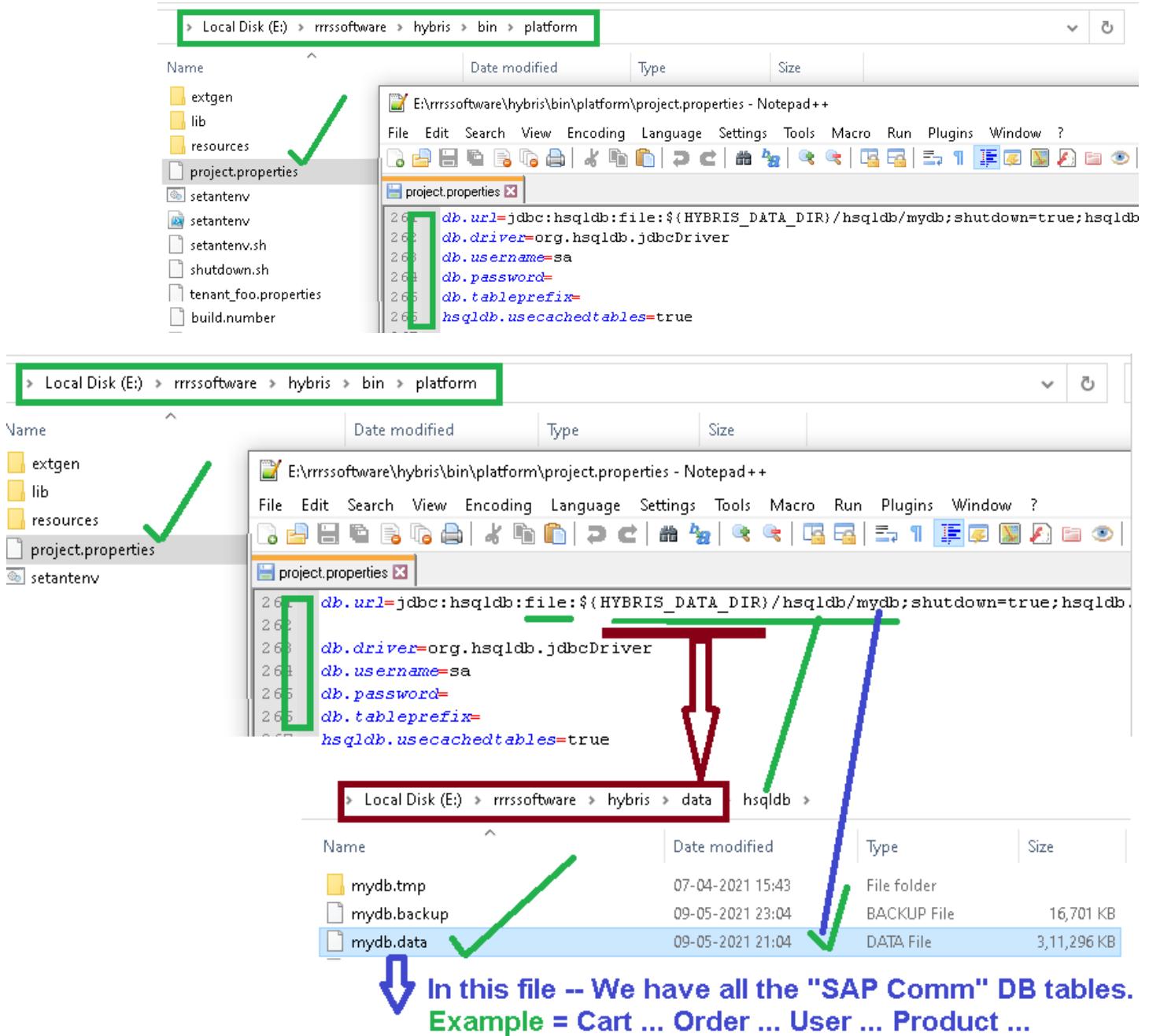
Q4 = After deploy – It requires some kind of Database?

Database = Oracle / MS SQL / HSQL / HANA / ...

“SAP Comm” by default comes with “**HSQL DB**”.

HSQLDB (HyperSQL DataBase) is the leading SQL relational database system written in Java. HSQLDB is completely free to use.

Q = Where can we see the “HSQL DB” settings / details?



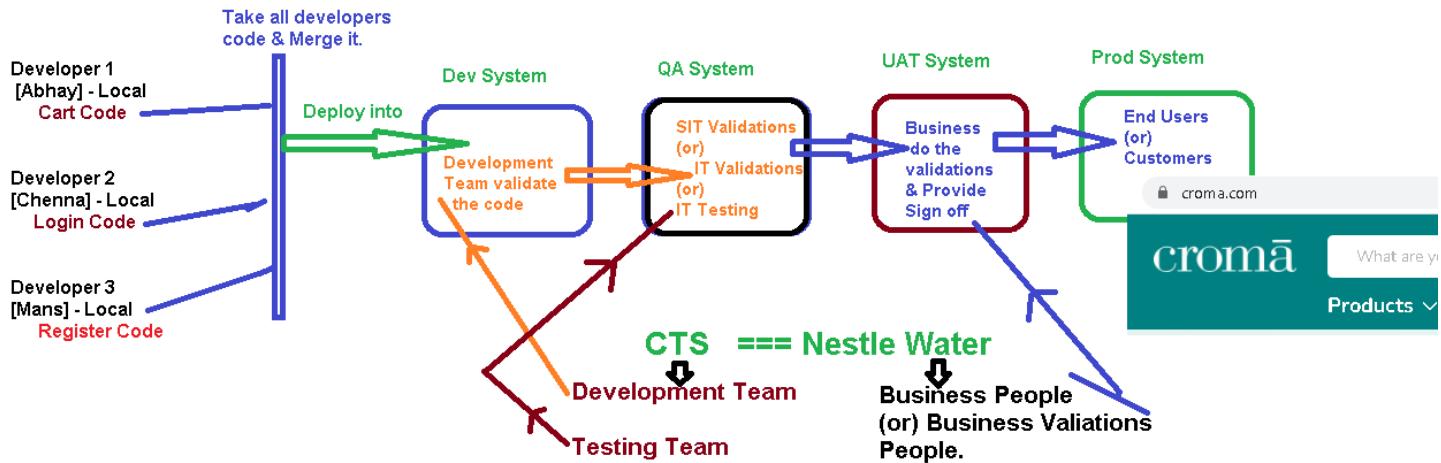
Conclusion =

By using “SAP Comm” – We can write the code [Exts] ... We can do the build [ANT]... We can deploy into Server [Hybris Server] ... We can connect DB [HSQL DB]...

==== By using “SAP Comm” – We can develop “End – End” solution.

SAP Comm – Installation

We install “SAP Comm” – for development purpose (or) demo purpose.



Note = Some clients might have 1 system for “SIT & UAT” validations.

In case of Cloud – We will be having “Development ... Staging ... Production”. If we want extra then we can request /subscribe.

Q = What are the system requirements?

	Minimum	Recommended
RAM	8 GB	16 GB
CPU	Dual Core - i5	Quad Core - i7
Hard Disk	10 GB	20 GB
		>40 GB [Production purpose]

Step 1 = Download the “SAP Comm” Software.

Google = SAP Commerce Download

<https://help.sap.com> > viewer > en-US ▾
[Download - SAP Help Portal](#)

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SAP Help Portal SAP Commerce

Installing and Upgrading

This document Enter keywords or a prod

Versions

- 2011
- 2005
- 1905
- 1811
- 1808
- 6.7.0 *
- 6.6.0 *

6.7.0 *

6.6.0 *

6.5.0 *

6.4.0 *

6.3.0 *

6.2.0 *

6.1.0 *

6.0.0 *

* This version is out of mainstream maintenance. For more information, see the

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Installing and Upgrading SAP Commerce

Installation Reference

Download SAP Commerce software releases and patches from the SAP

For production purposes, use your customer's S-user ID to download

SAP Commerce Downloads



825 Results Found / 50 Results Displayed

The actual number of search results depends on your licenses

SOFTWARE CATEGORIES AVAILABLE TO DOWNLOAD

SAP COMMERCE

SAP Commerce

Installation Product



Software Downloads

Downloads SAP Commerce

SAP COMMERCE

SAP Commerce

DOWNLOADS INFO ECCN INFO

SAP COMMERCE 2011

SAP Commerce 2011



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Note = To download the “SAP Comm” software, you need to have valid SID with download permissions.

==== Right now ... You might not have all these.

So, software is already shared for you.

Results = After downloading “SAP Comm” software: -

Local Disk (E:) > Softwares > Hybris-All > 2011			
Name	Date modified	Type	Size
CXCOMM201100P_6-70005693	21-04-2021 17:55	WinRAR ZIP archive	15,20,251 KB

Q = Who can able to download “SAP Comm” Software?

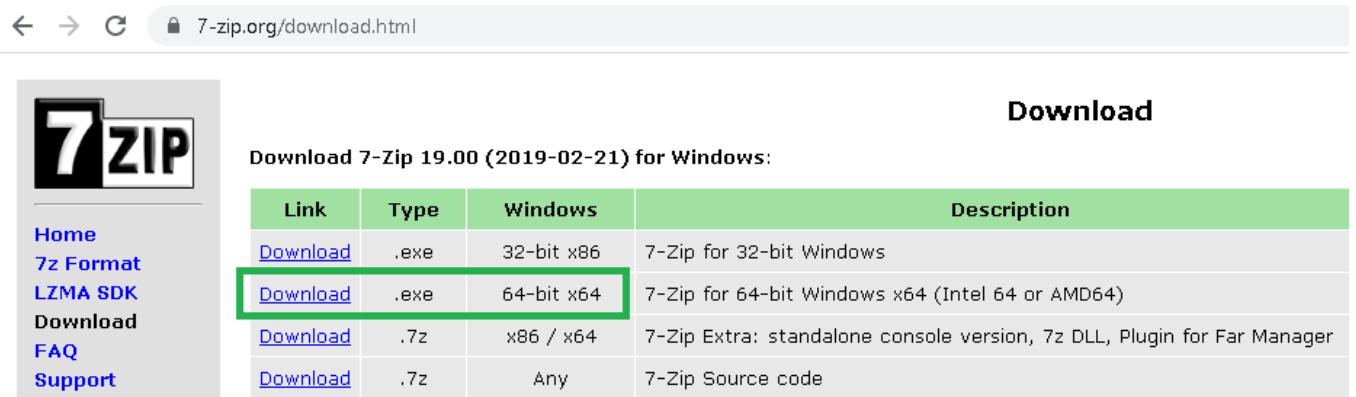
- 1) SAP Emp 2) SAP Comm Client 3) SAP Comm Impl Partner

Step 2 = Unzip the “SAP Comm” software.

To unzip the “SAP Comm” software – Please use “**7-Zip** / Winzip / ...”.

Q = Download “**7-Zip**” software & Install it?

URL = <https://www.7-zip.org/download.html>



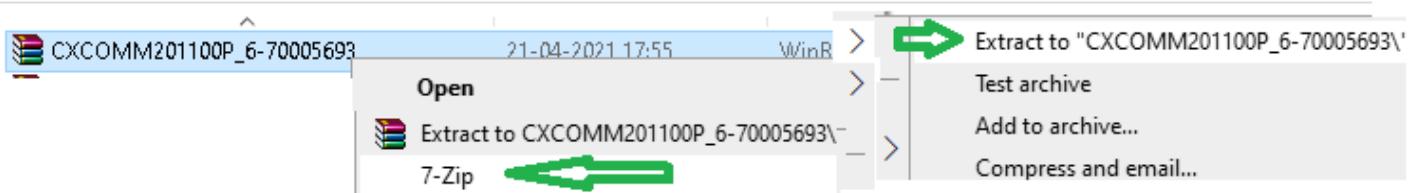
The screenshot shows the 7-Zip download page. On the left is a sidebar with links: Home, 7z Format, LZMA SDK, Download, FAQ, and Support. The main area has a title "Download 7-Zip 19.00 (2019-02-21) for Windows:". Below it is a table with columns: Link, Type, Windows, and Description. The table rows are:

Link	Type	Windows	Description
Download	.exe	32-bit x86	7-Zip for 32-bit Windows
Download	.exe	64-bit x64	7-Zip for 64-bit Windows x64 (Intel 64 or AMD64)
Download	.7z	x86 / x64	7-Zip Extra: standalone console version, 7z DLL, Plugin for Far Manager
Download	.7z	Any	7-Zip Source code

After install “7-ZIP” --- Unzip the “SAP Comm” software.

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> Local Disk (E:) > Softwares > Hybris-All > 2011



Local Disk (E:) > Softwares > Hybris-All > 2011

Name	Date modified	Type	Size
CXCOMM201100P_6-70005693	21-04-2021 17:55	WinRAR ZIP archive	15,20,251 KB

> Local Disk (E:) > Softwares > Hybris-All > 2011 > CXCOMM201100P_6-70005693 >

Name	Date modified	Type	Size
build-tools	16-04-2021 06:22	File folder	
hybris	16-04-2021 06:23	File folder	
hybris-sbg	16-04-2021 06:22	File folder	
installer	16-04-2021 06:23	File folder	
licenses	15-04-2021 15:55	File folder	
README	15-04-2021 07:09	File	1 KB
SIGNATURE.SMF	20-04-2021 07:32	SMF File	22,105 KB

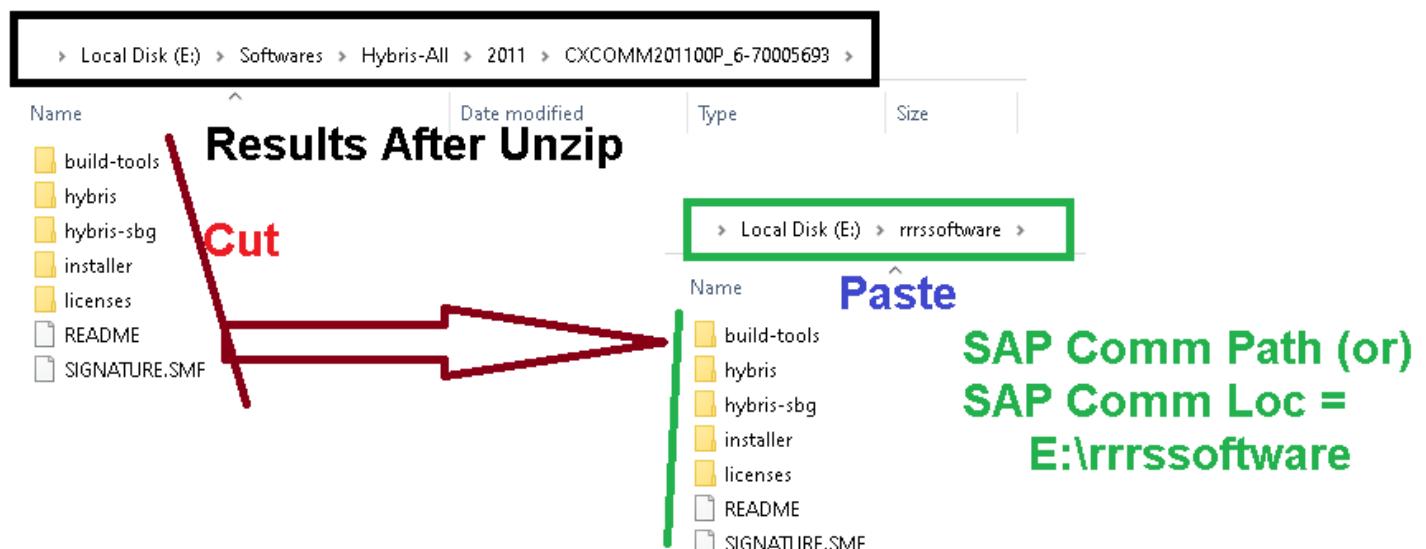
Results After Unzip

After Unzip – “SAP Comm” Path (or) Location =

E:\Softwares\Hybris-All\2011\CXCOMM201100P_6-70005693

Best Practice = Try to avoid “Spaces / - / Special chars / ...” in the Path.

So, put the “SAP Comm” in proper location = E:\rrrssoftware.



Step 3 = Download Java & Set the Java Path

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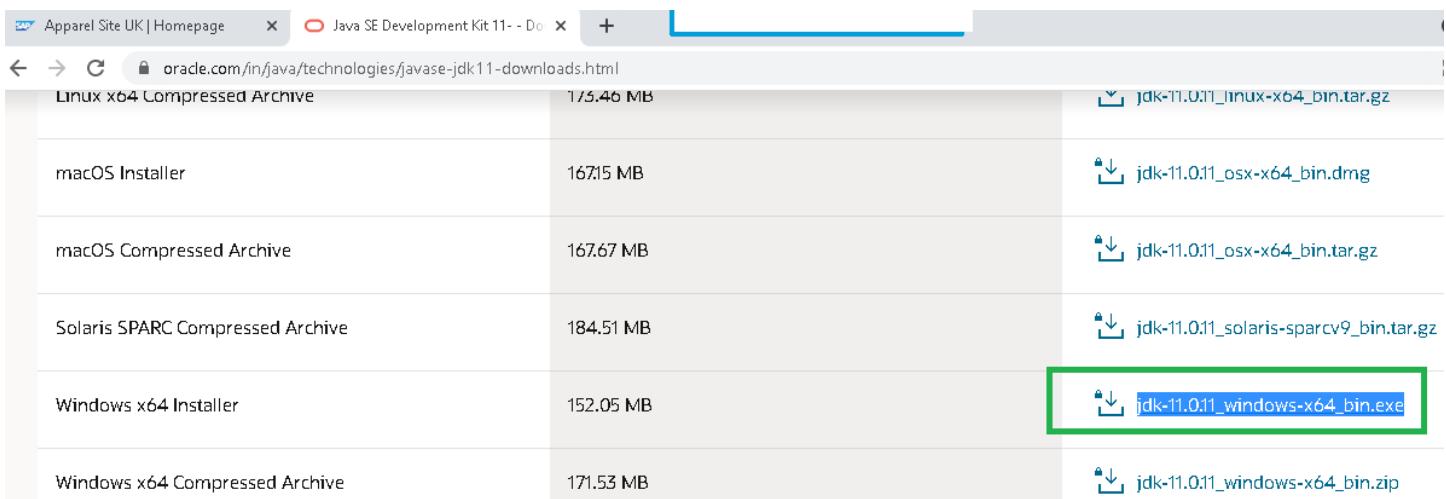
“SAP Comm” – Uses the Java.

Hybris 6.X / 1808 / 1811 = **Java 8** is required.

SAP Comm – “1905 / 2005 / **2011**” = **Java 11** is required.

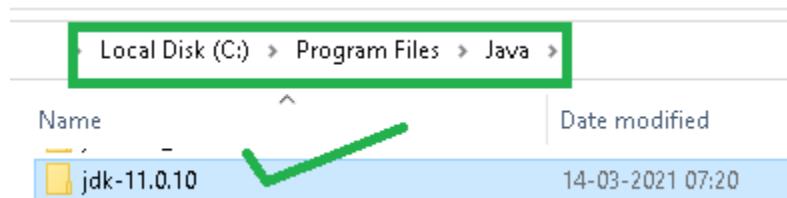
Q = Download “**Java**” software & Install it?

URL = <https://www.oracle.com/in/java/technologies/javase-jdk11-downloads.html>



Note = This is *.exe file. So just double click → Next ... & install it.

Results = After installation of Java: -



Java Location = C:\Program Files\Java\jdk-11.0.10

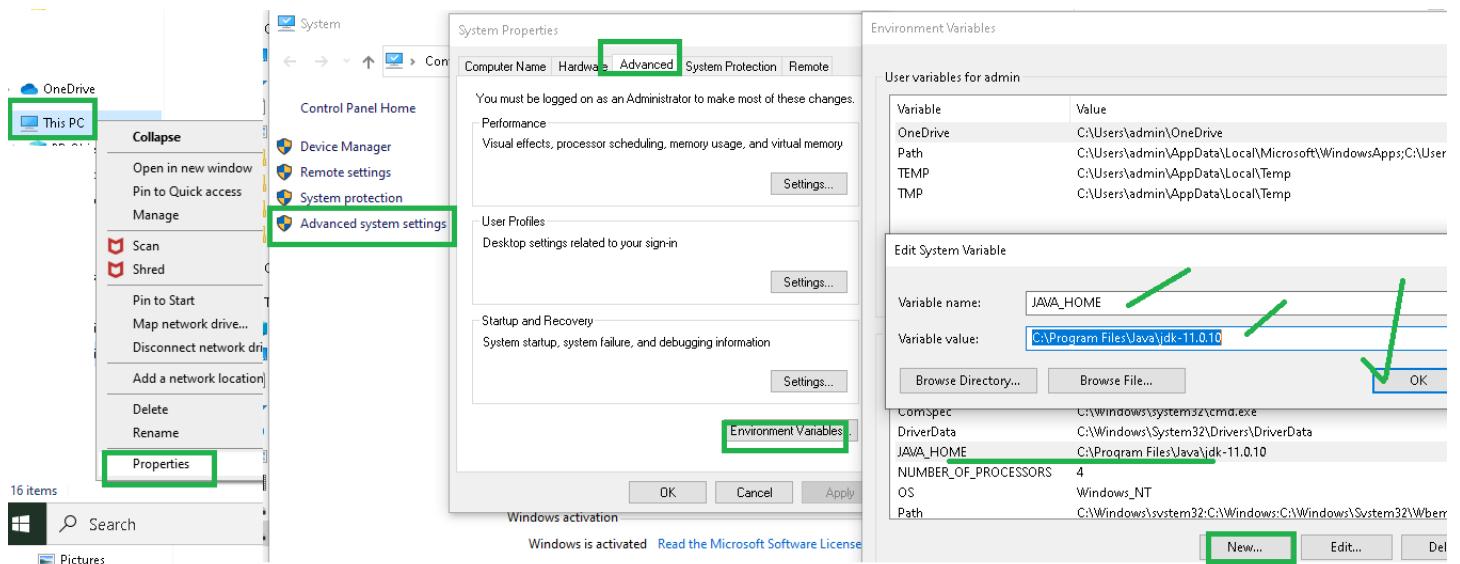
JAVA_HOME = C:\Program Files\Java\jdk-11.0.10

Q = How to set the **JAVA_HOME** & **Path**?

JAVA_HOME = RMB – This PC → Properties → Advanced system settings → Advanced → Environment Variables → New [System variables]

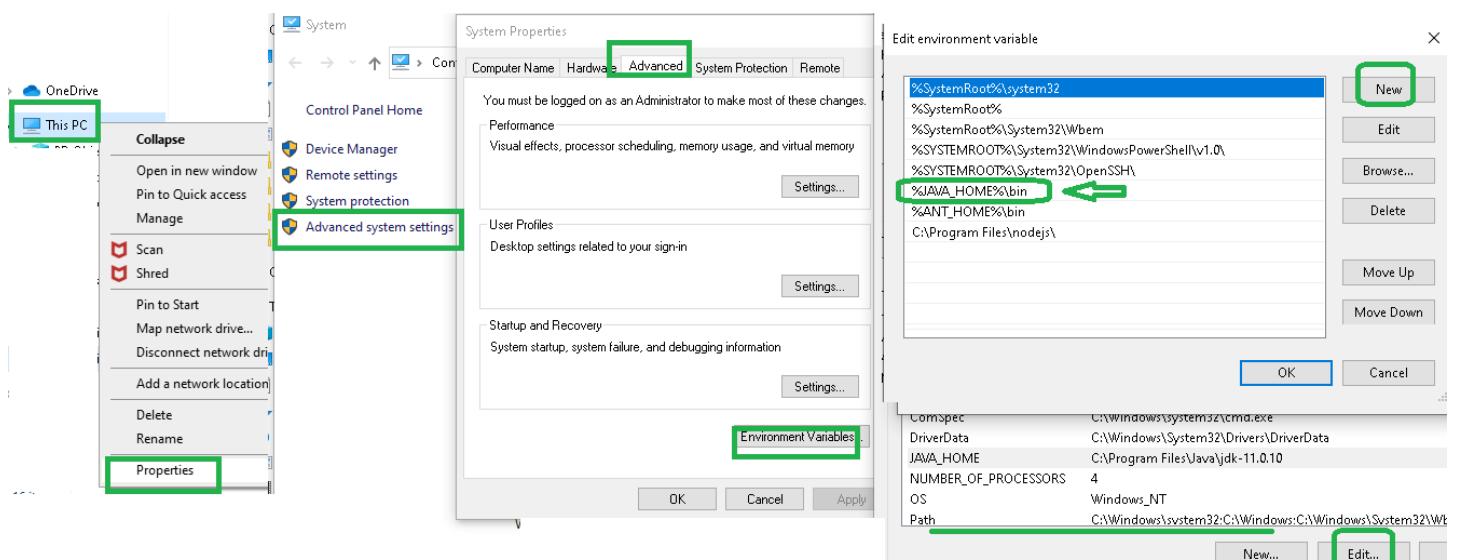
Variable name = **JAVA_HOME**

Variable Value = C:\Program Files\Java\jdk-11.0.10



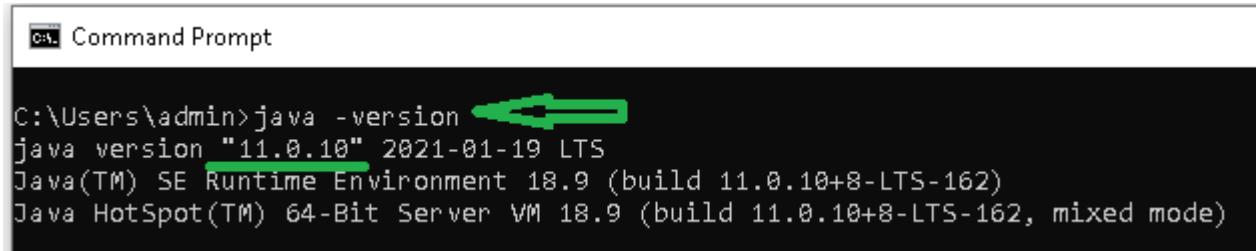
Path = RMB – This PC → Properties → Advanced system settings → Advanced → Environment Variables → Path [Select] → Edit

%JAVA_HOME%\bin



Q = How to check Java Path is set correctly (or) not?

C:\Users\admin>**java -version**



```
C:\Users\admin>java -version
java version "11.0.10" 2021-01-19 LTS
Java(TM) SE Runtime Environment 18.9 (build 11.0.10+8-LTS-162)
Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.10+8-LTS-162, mixed mode)
```

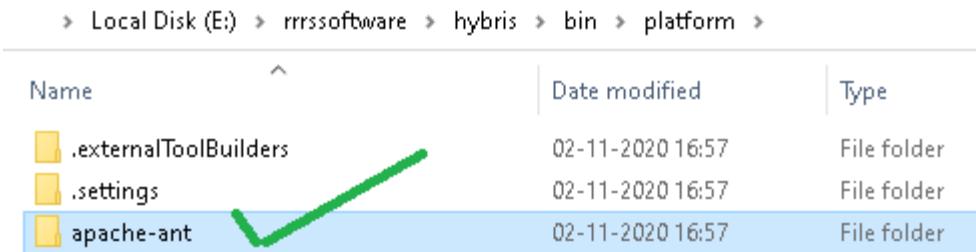
Step 4 = Set the ANT Path

In “SAP Comm” – We have the code. This code needs to be Build.

For build purpose – We can use “**ANT** / Maven / ...”.

Let’s use ANT because, ANT is part of “SAP Comm” software and we don’t need to download separately.

Q = Where we can see “ANT” details?



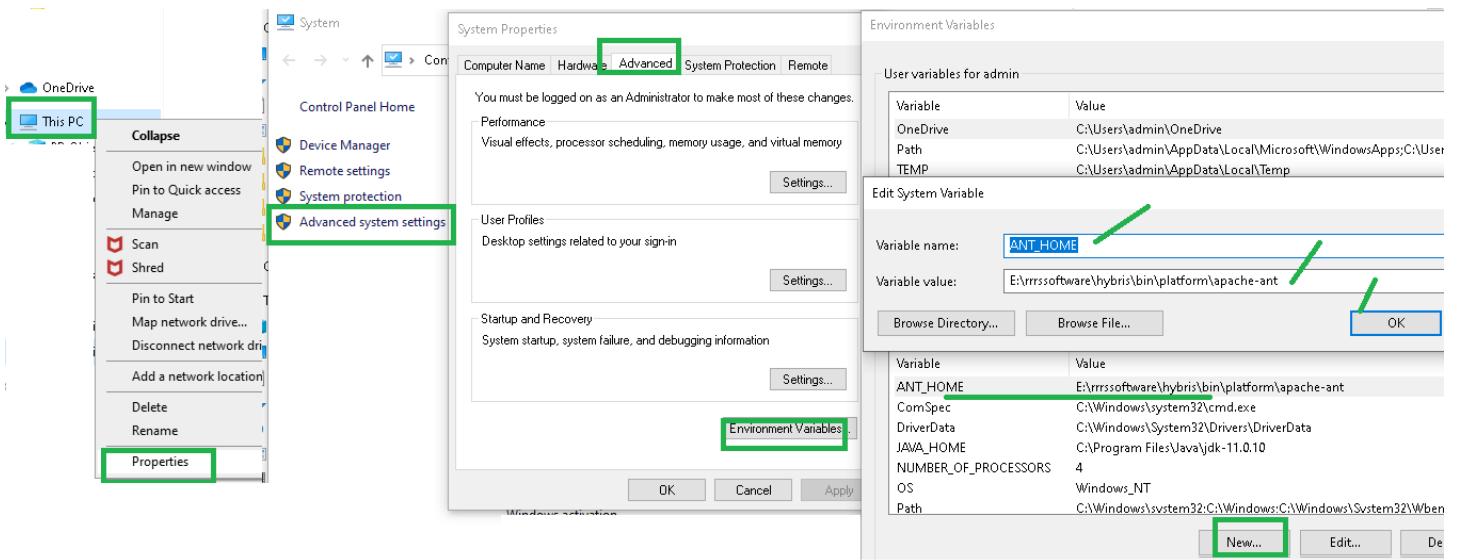
Name	Date modified	Type
.externalToolBuilders	02-11-2020 16:57	File folder
.settings	02-11-2020 16:57	File folder
apache-ant	02-11-2020 16:57	File folder

ANT_HOME = E:\rrrssoftware\hybris\bin\platform\apache-ant

ANT_HOME = RMB – This PC → Properties → Advanced system settings → Advanced → Environment Variables → New [System variables]

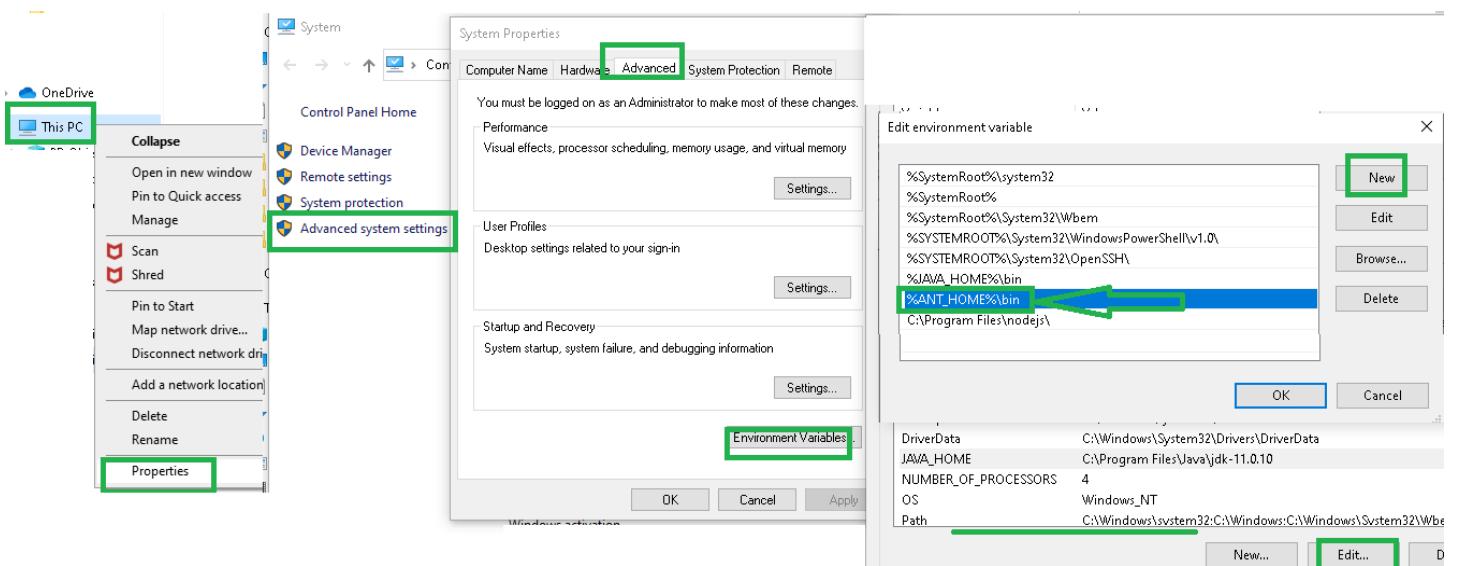
Variable name = **ANT_HOME**

Variable Value = E:\rrrssoftware\hybris\bin\platform\apache-ant



Path = RMB – This PC → Properties → Advanced system settings → Advanced → Environment Variables → **Path** [Select] → Edit

%ANT_HOME%\bin



Q = How to check ANT Path is set correctly (or) not?

C:\Users\admin>**ant -version**

```
Command Prompt

C:\Users\admin>ant -version
Apache Ant(TM) version 1.10.9 compiled on September 27 2020
C:\Users\admin>
```

Step 5 = Set the “admin” user password

“SAP Comm” by default comes with **admin** user.

Note = Setting the admin user password is required in latest version.

Example =

1905 / 2005 / **2011** – Then set the admin user password.

6.X / 1808 / 1811 – Then setting the admin user password is not required [optional]. In these versions, “SAP Comm” by default gives **admin** user password as **nimda**. Hence there is secure breach.

In latest version -- To increase the security “SAP Comm” force us to set the password for “admin” user.

Q = How to set the “admin” user password?

Assume that – We decided to install **cx** recipes.

cx recipe = Will provide “3 Sample B2C Sites & 1 Sample B2b Site”.

The screenshot shows a Notepad++ window with the following file path: Local Disk (E) > rrrssoftware > installer > recipes > cx. The file build.gradle is open. The code in the editor is:

```
18 def platform = platform {
19     localProperties {
20         # place your custom properties into this file instead of moc
21         # all properties in this file have higher priority and will
22
23         property 'initialpassword.admin', 'admin1234' | Add This
24
25         property '#mykey', '#myvalue'
26         property '#hac.webroot', '/hac'
```

A green box highlights the line "property 'initialpassword.admin', 'admin1234'". A purple box highlights the text "Add This" at the end of the line.

Step 6 = Install the “SAP Comm” (or) Install the “SAP Comm” Recipe.

Assume that – We decided to install **cx** recipes.

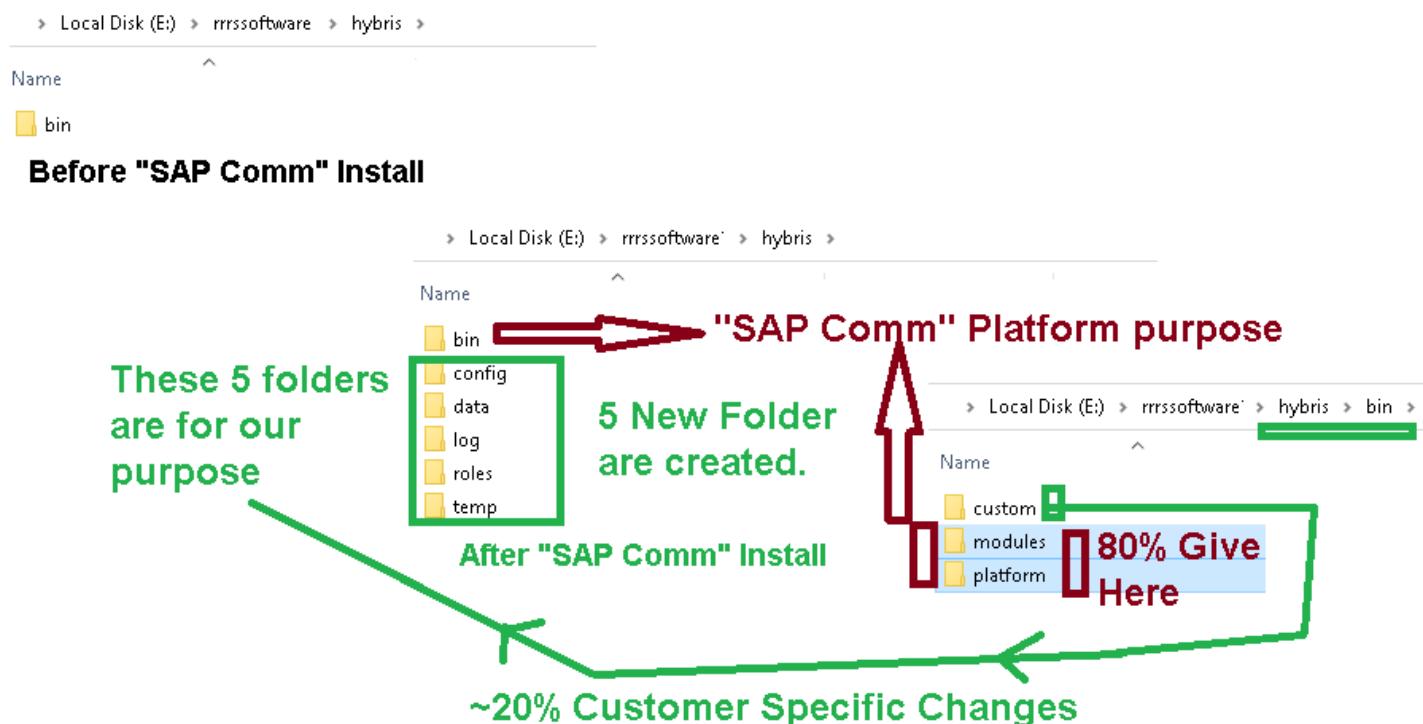
Syntax =

E:\rrrsssoftware\installer>**install.bat -r cx**

```
Local Disk (E:) > rrrsssoftware > installer
Name Date modified Type
.gradle C:\Windows\System32\cmd.exe
customcom E:\rrrsssoftware\installer>install.bat -r cx
.gradle
libs
```

```
C:\Windows\System32\cmd.exe
BUILD SUCCESSFUL
Total time: 18 seconds
BUILD SUCCESSFUL in 1m 53s
2 actionable tasks: 2 executed
E:\rrrsssoftware\installer>
```

Results – After the “SAP Comm” install?



Q = What is the “SAP Comm” (or) Hybris directory structure?

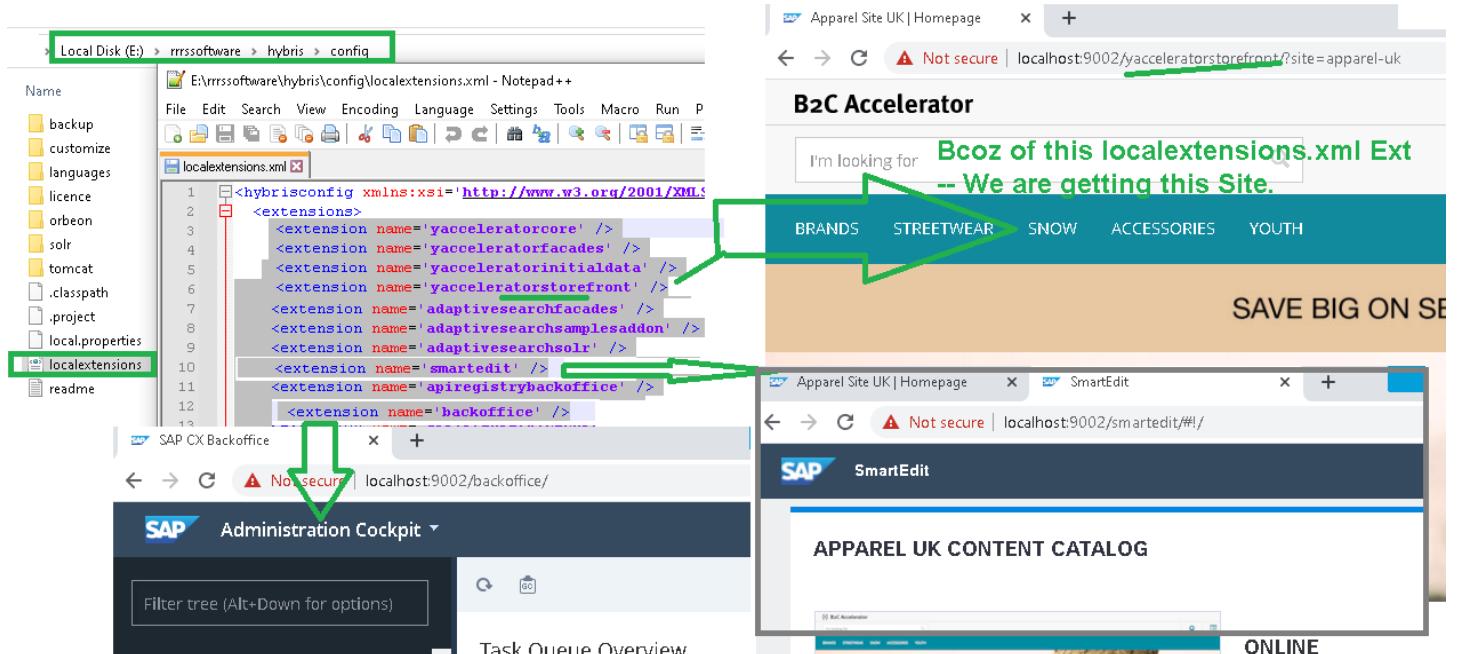
- | | | |
|--------|-----------|---------|
| 1) Bin | 2) Config | 3) Data |
| 4) Log | 5) Roles | 6) Temp |

Note = In Config folder we have 2 important files: -

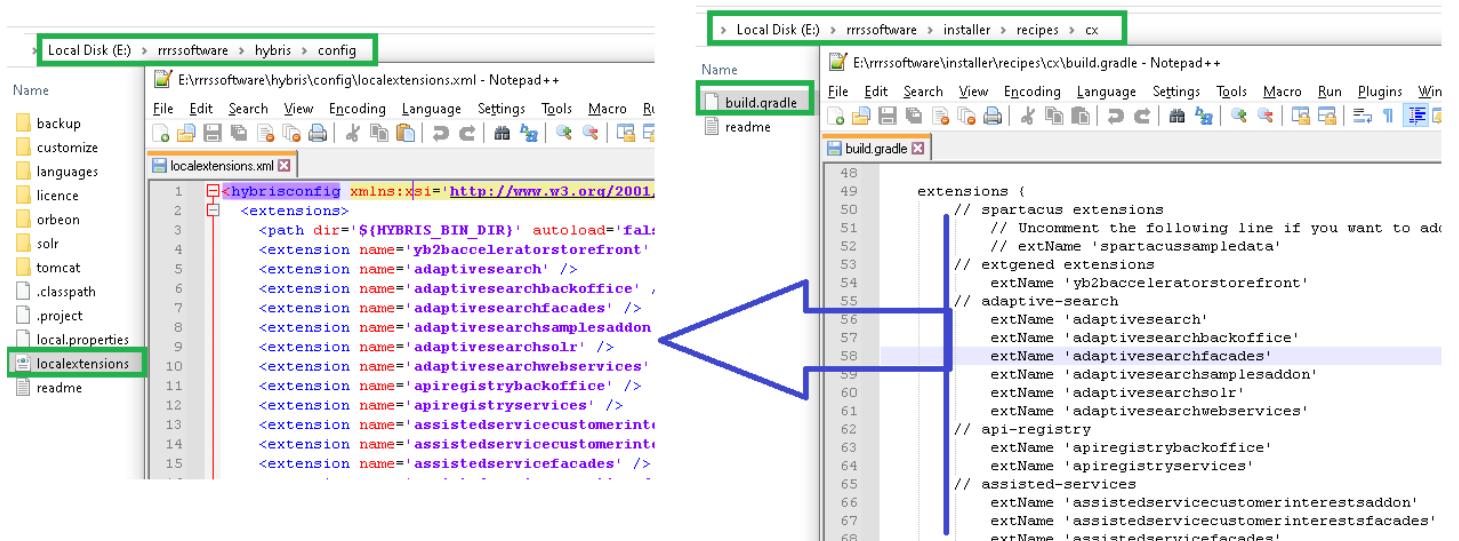
1) Local.properties

2) Localextensions.xml

Q = What is the importance of “localextensions.xml”?



Q = From where “localextensions.xml” & “local.properties” entries come?



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Step 7 = [Optional] Change the scope

Q1 = Do you think that -- All these Exts [code] are required for the client?

= May not

==== If not required the delete those.

Q2 = Do you think that -- All these Exts are sufficient (or) we may add more?

==== We may add more also

====> Adding Exts in localextensions.xml (or) Removing Exts from localextensions.xml
--- Is called "Change Scope"

== We are not doing any changes in this file right now. Because we want all the functionalities whatever given.

Doing this step is also called as “Changing the functional scope”.

Step 8 = [Optional] Change the DB

“SAP Comm” by default comes with “HSQL DB”.

Q = Where can we see the SAP Comm provided “HSQL DB” details?

The screenshot shows a Windows file explorer window with the path Local Disk (E:) > rrrsssoftware > hybris > bin > platform. Inside this folder, there is a Notepad++ window displaying the contents of the project.properties file. The file contains the following configuration:

```
261 db.url=jdbc:hsqldb:file:${HYBRIS_DATA_DIR}/hsqldb/mydb;
262 db.driver=org.hsqldb.jdbcDriver
263 db.username=sa
264 db.password=
265 db.tableprefix=
266 hsqldb.usecachetables=true
```

Scenario = Let's say – Client don't want to use “HSQL DB” & they want to use “Oracle DB / HANA DB / MS SQL DB /”?

Q = How to do the SAP Comm pointing Oracle DB?

Solution1 =Not the best practice

The screenshot shows the same Notepad++ window as before, but with a large red 'X' drawn over the database configuration lines (lines 261-266). To the right of the window, a red note reads: "Step 1 = Remove (or) Comment this".

The screenshot shows the Notepad++ window again, but now the database configuration lines have been uncommented and are highlighted in green. The file path is now *E:\rrrssoftware\hybris\bin\platform\project.properties. The highlighted configuration is:

```
336
337 db.url=jdbc:oracle:thin:@<host>:1521:<sid>
338 db.driver=oracle.jdbc.driver.OracleDriver
339 db.username=<username>
340 db.password=<password>
```

To the right of the window, a green note reads: "Step 2 = Uncomment & Config details".

Note = Solution1 works & no problem. But this is **not the best practice**.

Q = Why Solution1 is not the best practice?

In Solutio1 – We are doing the changes directly inside the “\bin\platform\project.properties”.

Platform folder will be replaced when we do the upgrade with latest.

Hence – our changes will be lost.

Now – What to do?

Instead we do the changes “\bin\platform\project.properties” ... We can do the changes inside “Config\local.properties”.

Conclusion =

The alternate for “hybris\bin\platform\project.properties” – Is
“hybris\config\local.properties” = **Solution 2**

Solution2 = Best Practice

The screenshot displays two Notepad++ windows side-by-side. The top window is titled 'E:\rrrssoftware\hybris\bin\platform\project.properties - Notepad++' and shows the 'setantenv' file highlighted. The code in the editor is:

```
336 db.url=jdbc:oracle:thin:@<host>:1521:<sid>
337 db.driver=oracle.jdbc.driver.OracleDriver
338 db.username=<username>
339 db.password=<password>
```

A green box highlights the line 'db.url=jdbc:oracle:thin:@<host>:1521:<sid>' with the text 'Step 1 = Copy this properties (or) Copy Oracle DB Settings' overlaid.

The bottom window is titled 'E:\rrrssoftware\hybris\config\local.properties - Notepad++' and shows the 'readme' file highlighted. The code in the editor is:

```
1 #Generated by hybris installer
2 #Wed Apr 07 13:34:28 EDT 2021
3
4 db.url=jdbc:oracle:thin:@<host>:1521:<sid>
5 db.driver=oracle.jdbc.driver.OracleDriver
6 db.username=<username>
7 db.password=<password>
```

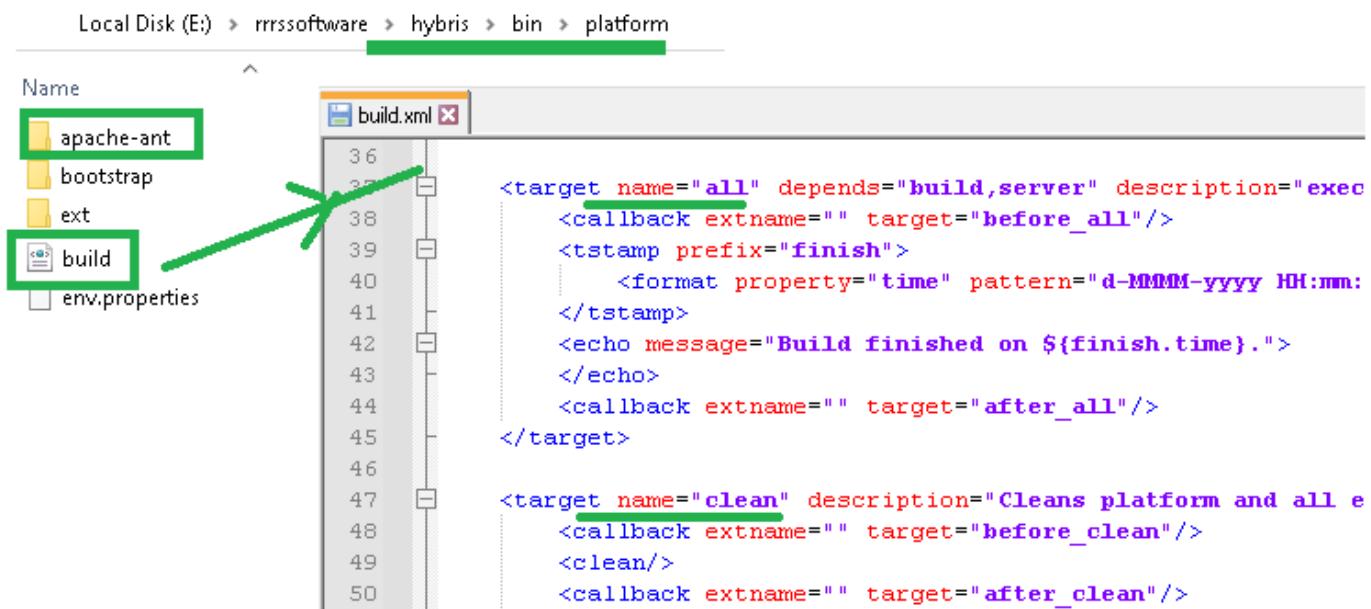
A green box highlights the line 'db.url=jdbc:oracle:thin:@<host>:1521:<sid>' with the text 'Step 2 = Paste the properties & modify those.' overlaid.

Step 9 = Do the build

For purpose – We can use “**ANT** / Maven /....”.

SAP Comm by default comes with “**ANT**” tool.

ANT uses “**build.xml**”.



Local Disk (E:) > rrrssoftware > hybris > bin > platform

Name

- apache-ant
- bootstrap
- ext
- build**
- env.properties

build.xml

```
<target name="all" depends="build,server" description="exec
  <callback extname="" target="before_all"/>
  <tstamp prefix="finish">
    <format property="time" pattern="d-MMM-yyyy HH:mm:ss"/>
  </tstamp>
  <echo message="Build finished on ${finish.time}."/>
  </echo>
  <callback extname="" target="after_all"/>
</target>

<target name="clean" description="Cleans platform and all e
  <callback extname="" target="before_clean"/>
  <clean/>
  <callback extname="" target="after_clean"/>
```

Q = What are the important “ANT” Commands [Build.xml – Targets]?

- 1) ant all
- 2) ant clean all
- 3) ant deploy
- 4) ant extgen
- 5) ant modulegen
- 6) ant initialize
- 7) ant gradle
- 8) ant customize
- 9) ant production
- 10) ant updatesystem
- 11)

Q = How to do the build?

Syntax =

E:\rrrssoftware\hybris\bin\platform>**ant clean all**

(or)

E:\rrrssoftware\hybris\bin\platform>**ant all**

```

Local Disk (E) > rrrssoftware > hybris > bin > platform
Name
e:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18363.1500]
(c) 2019 Microsoft Corporation. All rights reserved.

E:\rrrssoftware\hybris\bin\platform>ant clean all
It will take "10 - 20" mins depends on PC.

```

Step 10 = Perform the Initialization [INIT]

After install "SAP Comm" -- We get this site.
We are able to see the results of this site ... Bcoz there are lots of tables created behind.

Example = Cart Table ... Order Table ... Product Table

That means – Any eComm site will have some common tables like: -

Cart table ... Product table ... Order table ... User table

Q = Do we need to write the code for these tables (or) Do we need to do the design for these table?

No need. Then what ==

Right now we are planning to use “SAP Comm”.

This “SAP Comm” provides code / design for these tables.

Q = Where can we see these tables code / design? = *-items.xml

Product Table Code

```

<itemtype code="Product"
  extends="GenericItem"
  jaloClass="de.hybris.platform.jalo.product.Product"
  autoCreate="true"
  generate="true">
  <deployment table="Products" typeCode="1" propertyTable="Pr">
    <attributes>
      <attribute autoCreate="true" qualifier="code" type="jav">
        <attribute autoCreate="true" qualifier="name" type="loc">
          <attribute autoCreate="true" qualifier="unit" type="Uni">
            <attribute autoCreate="true" qualifier="description" ty>
              <attribute autoCreate="true" qualifier="thumbnail" type>
                <persistence type="property"/>
                <modifiers read="true" write="true" search="true" c>
              </attribute>
              <attribute autoCreate="true" qualifier="picture" type=">
                <persistence type="property"/>
                <modifiers read="true" write="true" search="true" c>
              </attribute>
    </attributes>
  </deployment>

```

INIT

Update

	Article Number	Identifier
300441142	Cap Blue Tomato BT S	
29531	Snowboard Ski Tool T	
29532	Snowboard Ski Tool T	
29533	Snowboard Ski Tool T	

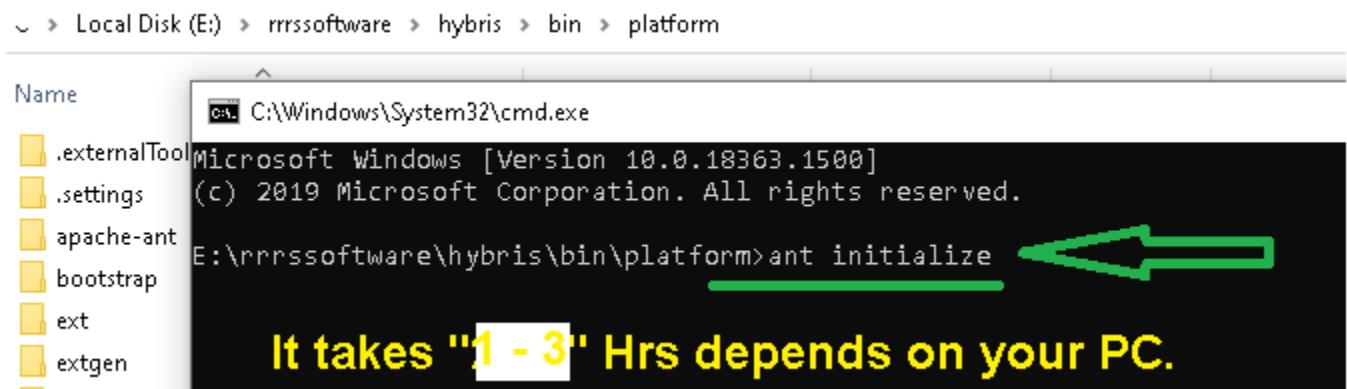
Q = What happens during the INIT / Update?

“SAP Comm” DB tables [Cart ... Order ... Product ...] will be created.

Q = How to do the INIT?

Syntax =

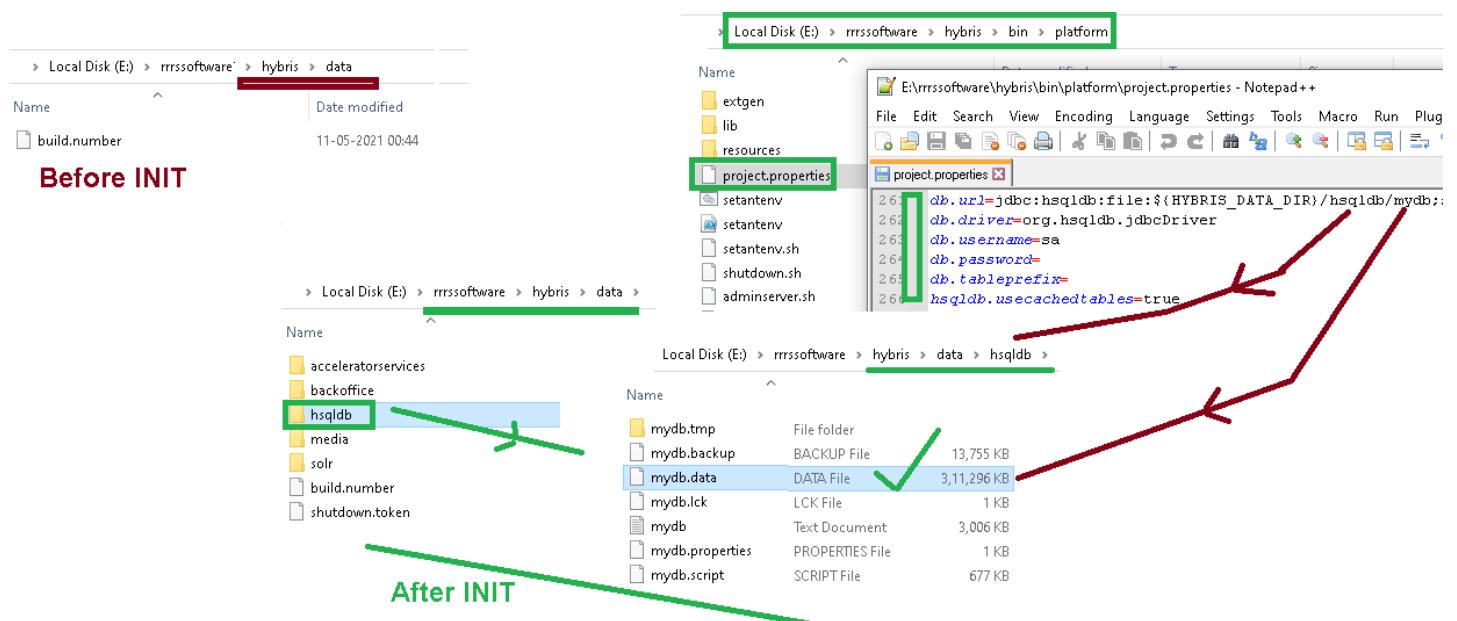
E:\rrrssoftware\hybris\bin\platform>**ant initialize**



Note = When INIT happening: -

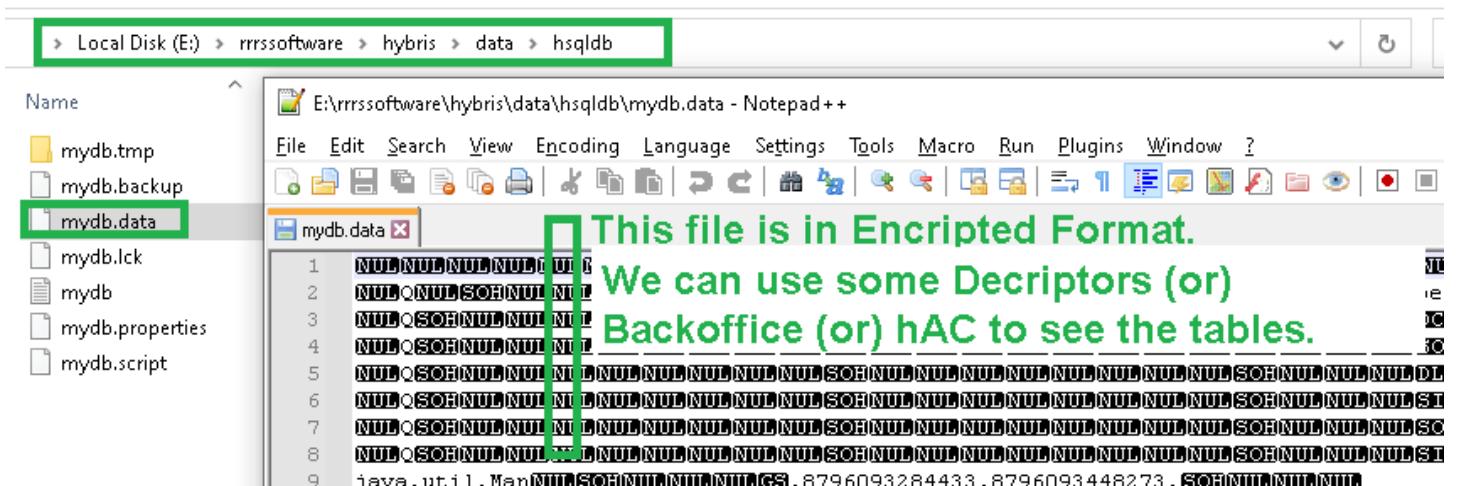
- 1) Make sure you are not closing the command window
- 2) Make sure your system is not going sleeping mode.

Results – After INIT



Conclusion =

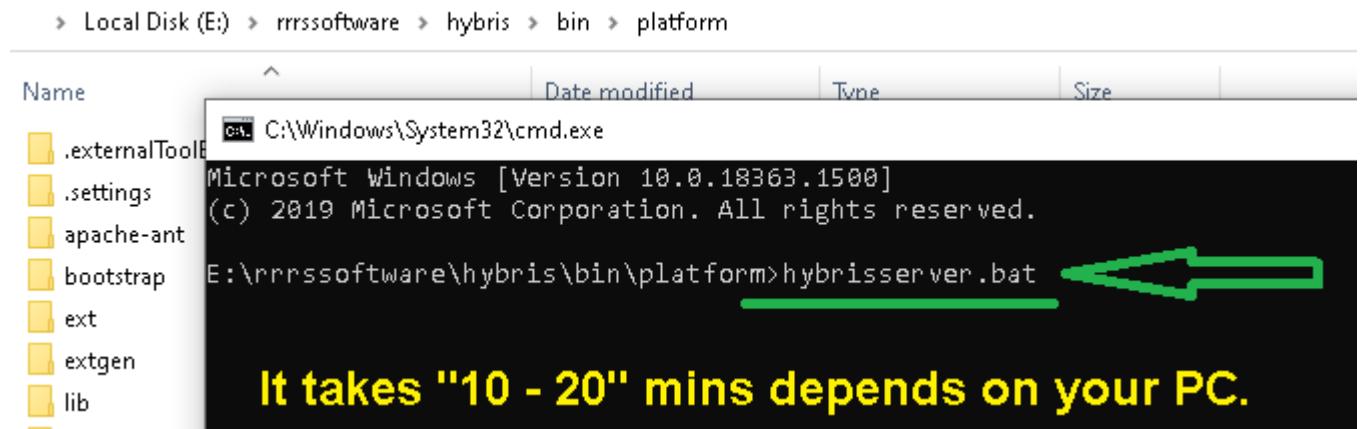
All the HSQL DB tables are there in “mydb.data” file.



Step 11 = After INIT is done – Start the “SAP Comm” (or) Hybris Server.

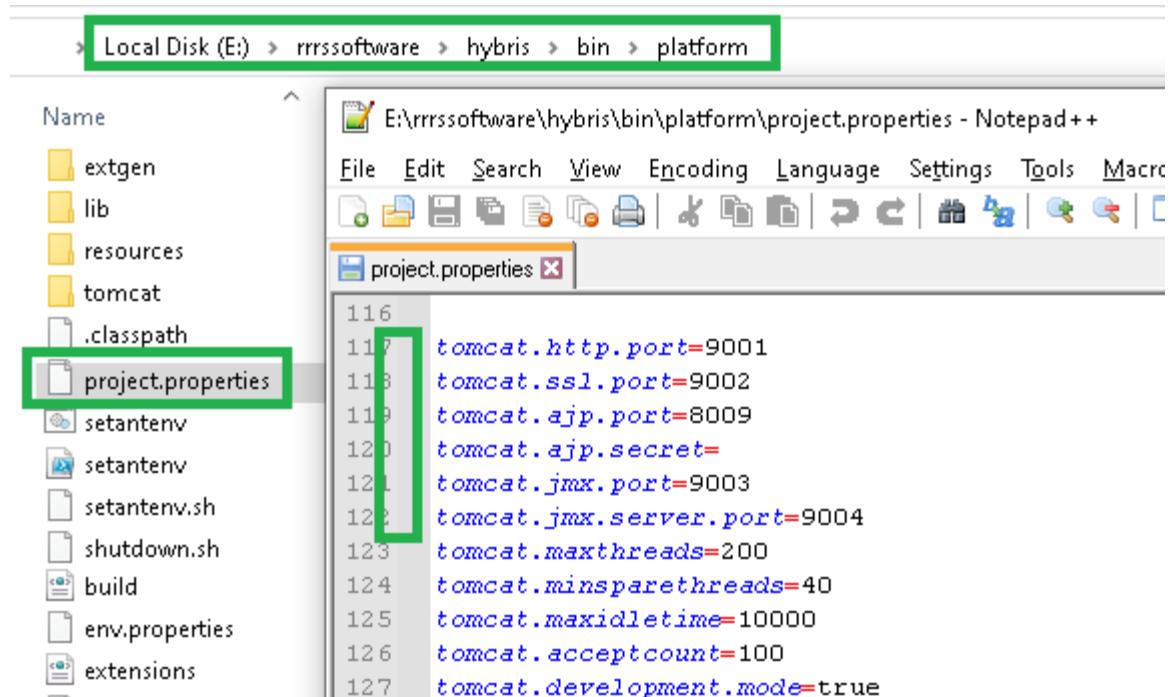
Syntax =

E:\rrrssoftware\hybris\bin\platform>**hybrisserver.bat**



Note = By default “SAP Comm” Hybris server starts @ 9001 & 9002 ports.

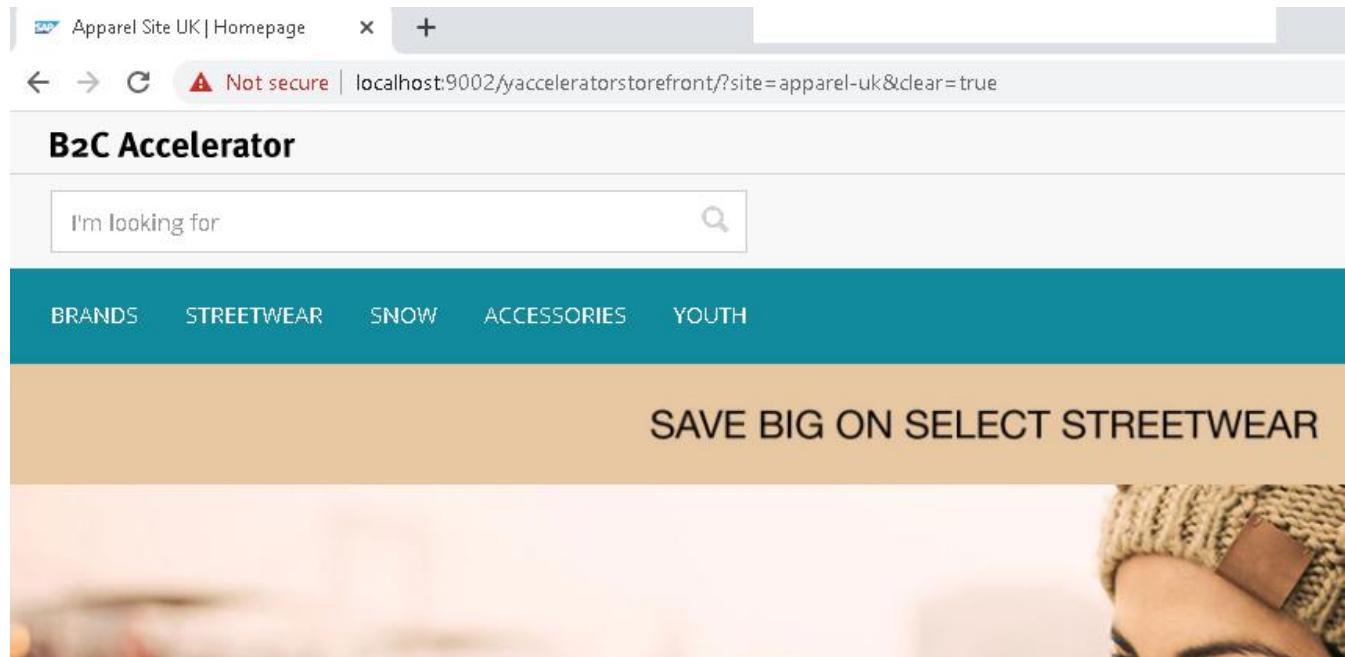
Q = Where can we see the Hybris server port numbers?



Step 12 = Test the results (or) What we get after “SAP Comm” install?

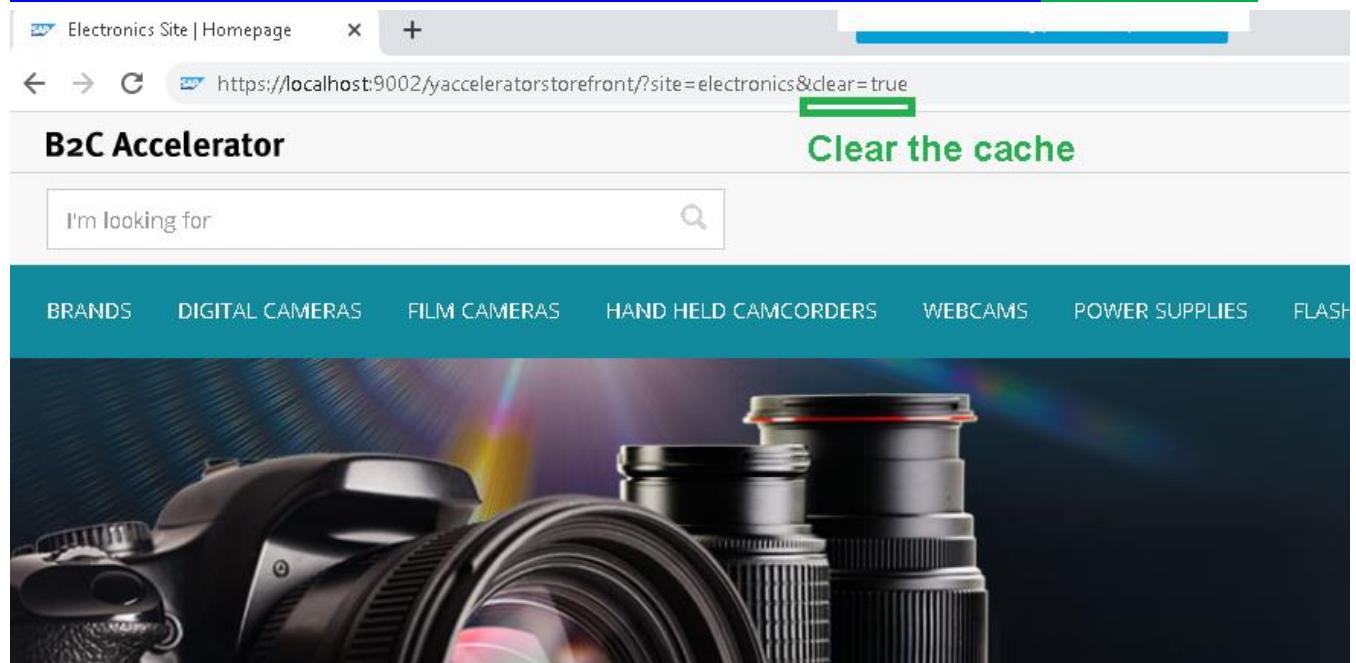
1) We have installed **CX recipe** – Bcoz of CX recipe – We get **3 sample B2C Sites** = [Apparel UK, Apparel DE & Electronics].

<https://localhost:9002/yacceleratorstorefront/?site=apparel-uk>



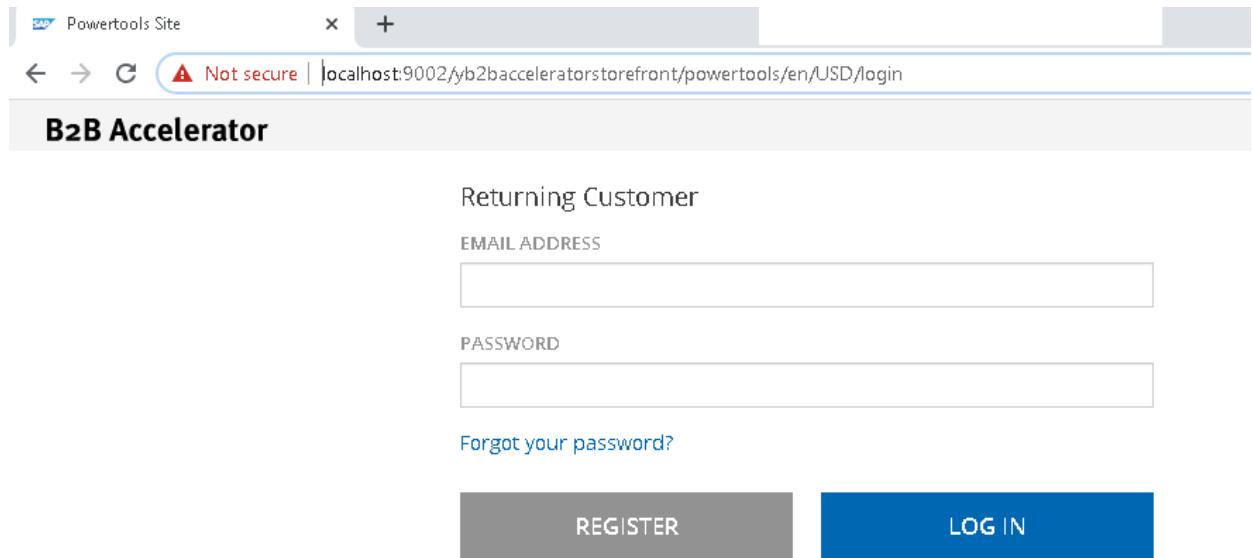
<https://localhost:9002/yacceleratorstorefront/?site=apparel-de>

<https://localhost:9002/yacceleratorstorefront/?site=electronics>



2) We have installed CX recipe – Bcoz of CX recipe – We get 1 sample
B2B Sites = Powertools

<https://localhost:9002/yb2bacceleratorstorefront/?site=powertools>
<https://localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/login>



Powertools Site

Not secure | localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/login

B2B Accelerator

Returning Customer

EMAIL ADDRESS

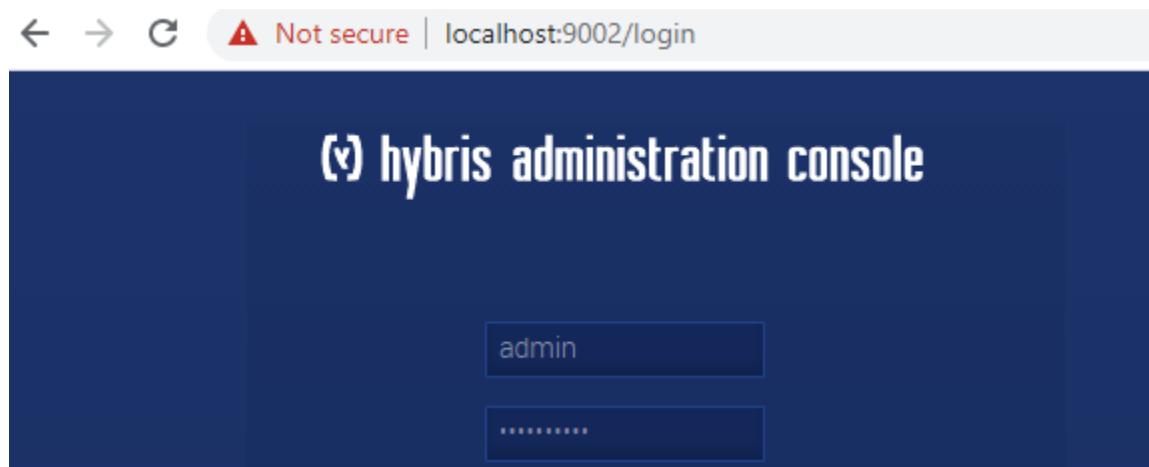
PASSWORD

Forgot your password?

REGISTER LOG IN

3) **hAC** = Hybris Administration Console

URL = <https://localhost:9002/>
admin admin1234



Not secure | localhost:9002/login

(v) hybris administration console

admin

.....

hybris administration console | localhost:9002

You're Administrator [logout](#)

Platform Monitoring Maintenance Console

Tenants Configuration System Logging Extensions Initialization Update SQL Scripts License Support PK Analyzer Classpath Analyzer

Uptime: 2 hours 41 minutes. Enjoy!

4) Backoffice

URL = <https://localhost:9002/backoffice>

admin admin1234

SAP CX Backoffice | Login

Not secure | localhost:9002/backoffice/login.zul

Username: admin

Password:|

Language: English

SAP Administration Cockpit

Filter tree (Alt+Down for options)

- Home
- Inbox
- System
- Catalog
- Multimedia

Task Queue Overview

Tuesday, Task 1

Oracle Developer Studio =

Connect to the DB.

We can see the tables.

Can able to perform CURD operations.

Oracle Develop Studio === Toad tool === “SAP Comm” – Backoffice.

Backoffice =

Connect to the “SAP Comm” DB.

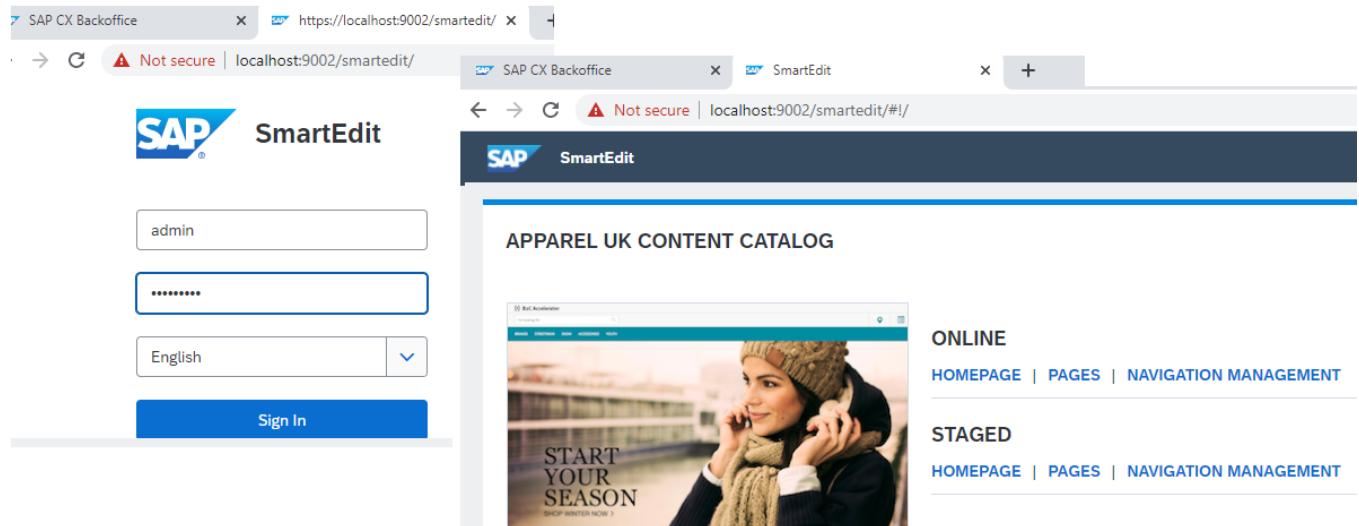
We can see the tables.

Can able to perform CURD operations.

5) SmartEdit =

URL = <https://localhost:9002/smaredit/>

admin admin1234

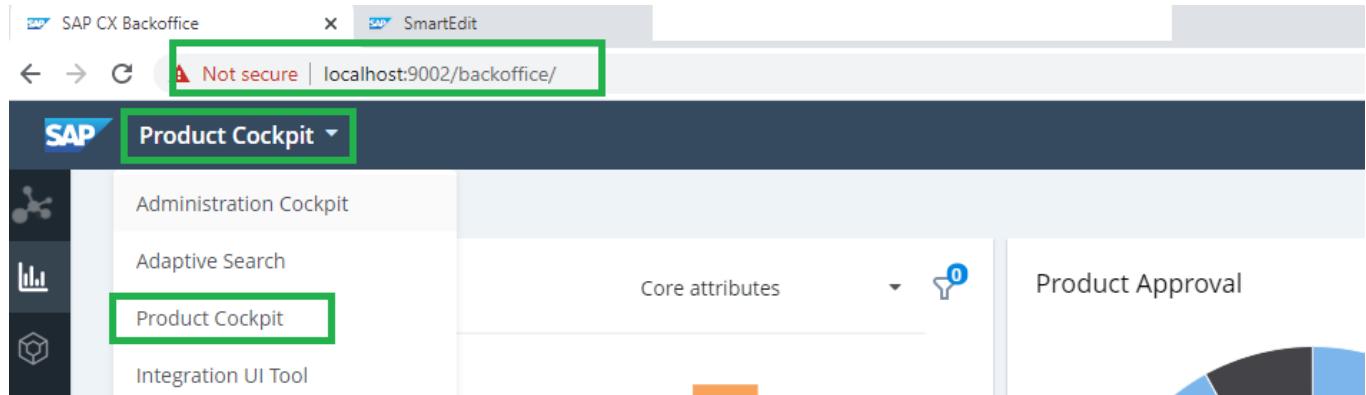


The screenshot shows two browser tabs. The left tab is 'SAP CX Backoffice' and the right tab is 'SmartEdit'. Both tabs show a warning message: 'Not secure | localhost:9002/smaredit/'. The 'SmartEdit' tab displays the 'APPAREL UK CONTENT CATALOG' with a banner image of a woman wearing a hat and scarf, and text 'START YOUR SEASON SHOP WINTER NOW'. Below the banner, there are two sections: 'ONLINE' and 'STAGED', each with links to 'HOMEPAGE | PAGES | NAVIGATION MANAGEMENT'.

6) Product Cockpit

In old versions [5.X / 6.X – We have up to 6.7] – Product cockpit is the separate URL.

In latest version [1905 / 2005 / 2011] – Product cockpit is embedded with BackOffice.



The screenshot shows the SAP CX Backoffice interface. The top navigation bar has tabs for 'SAP CX Backoffice' and 'SmartEdit'. The address bar shows 'localhost:9002/backoffice/'. The main menu bar has a 'Product Cockpit' item, which is highlighted with a green box. Other menu items include 'Administration Cockpit', 'Adaptive Search', 'Integration UI Tool', and 'Core attributes' (with a notification count of 0). To the right, there is a 'Product Approval' section with a progress bar.

7) Adaptive Search

The screenshot shows the SAP CX Backoffice interface. At the top, there are two tabs: "SAP CX Backoffice" and "SmartEdit". Below the tabs, the URL bar shows "localhost:9002/backoffice/" with a "Not secure" warning. The main content area has a dark header with the SAP logo and "Adaptive Search". On the left, a navigation sidebar lists "Administration Cockpit", "Adaptive Search" (which is highlighted with a green box), "Product Cockpit", and "Integration UI Tool". To the right, there's a search profile context section with a search bar labeled "Search in category: Global".

8) ASM

<https://localhost:9002/yacceleratorstorefront/?site=apparel-uk&asm=true>

The screenshot shows the Apparel Site UK homepage. The URL in the address bar is "localhost:9002/yacceleratorstorefront/?site=apparel-uk&asm=true". The page has a dark header with "ASM" and a "SIGN IN" button. Below the header, there's a "B2C Accelerator" banner. The banner features a search bar with "I'm looking for" and a magnifying glass icon. It also includes a location pin icon, a grid icon, and a shopping cart icon with "(0 ITEMS) £0.00". At the bottom of the banner, there are categories: BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. A promotional banner below the categories says "SAVE BIG ON SELECT STREETWEAR" with a "SHOP NOW" button.

9) CS Cockpit

10) =====

Note = Yesterday we **completed** the “SAP Comm” installation.

So – From today on words: -

Just do the **build** [ant clean all / **ant all**].

After build -- start the **Server** [**hybrisserver.bat**] & continue.

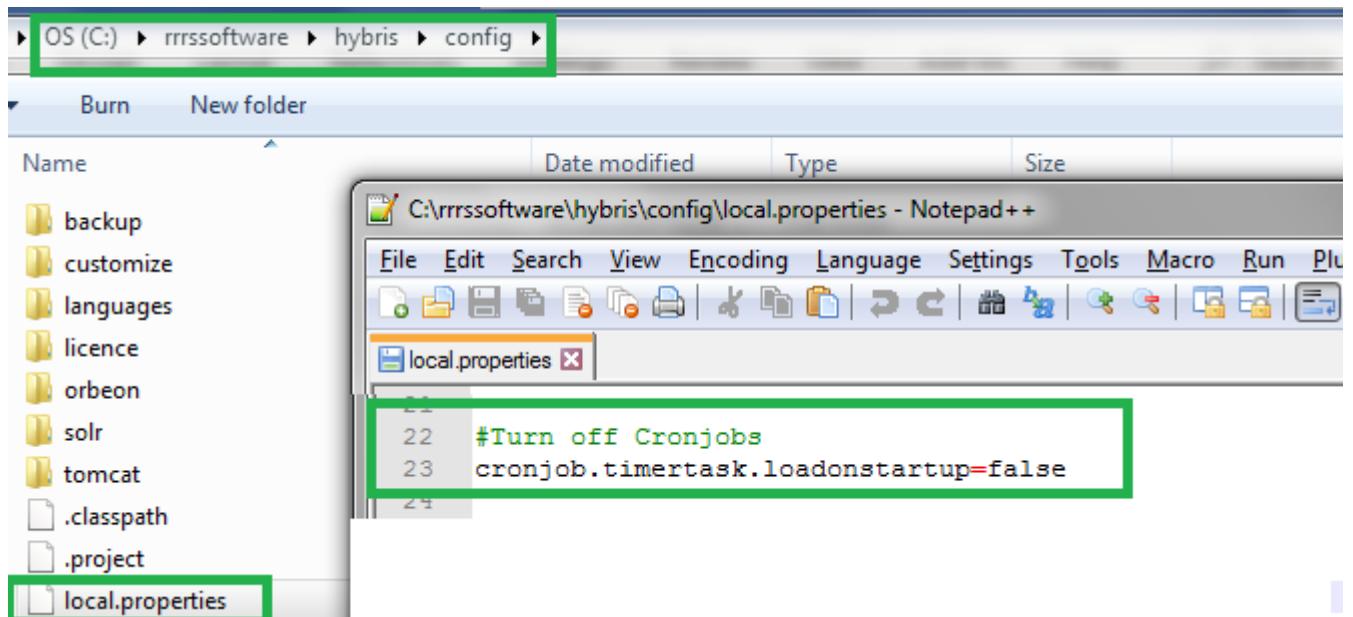
Contact Us = **ChennaReddyTraining@RRRS.CO.IN**

Scenario = We noticed that, “SAP Comm” Hybris Server Start up is taking more time. C:\rrrssoftware\hybris\bin\platform>**Hybrisserver.bat** [This is taking lots of time]

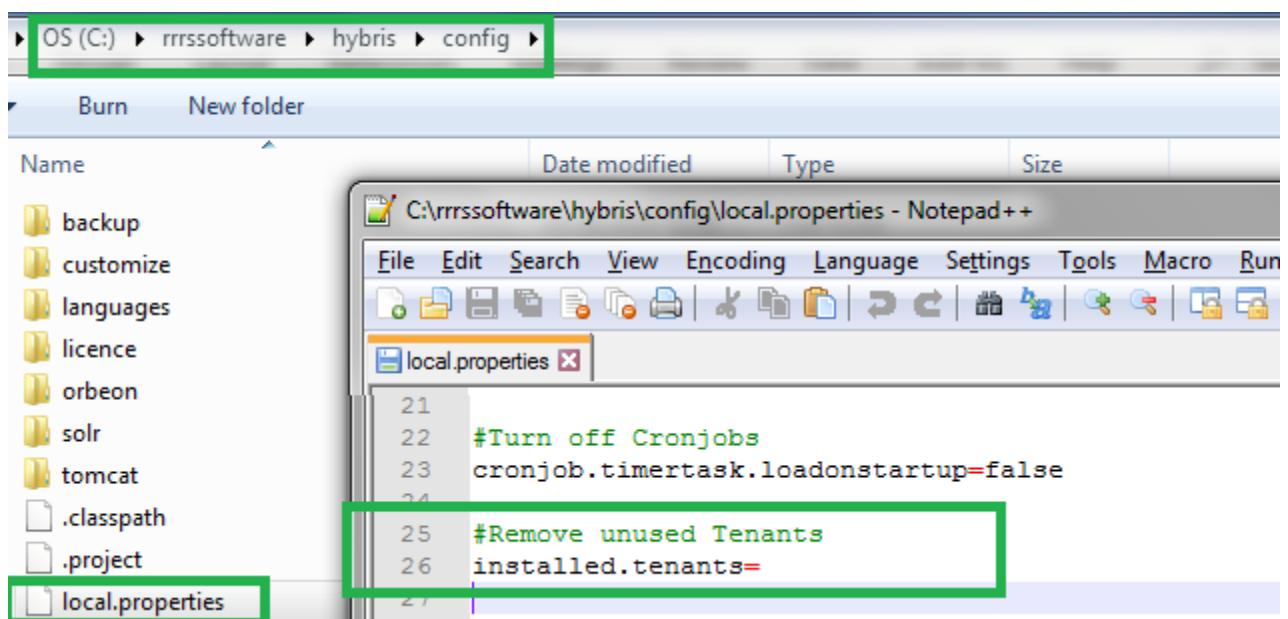
Q = How to speed up (or) decreased the Hybris Server Start up time?

Cronjob == It's a program runs background.

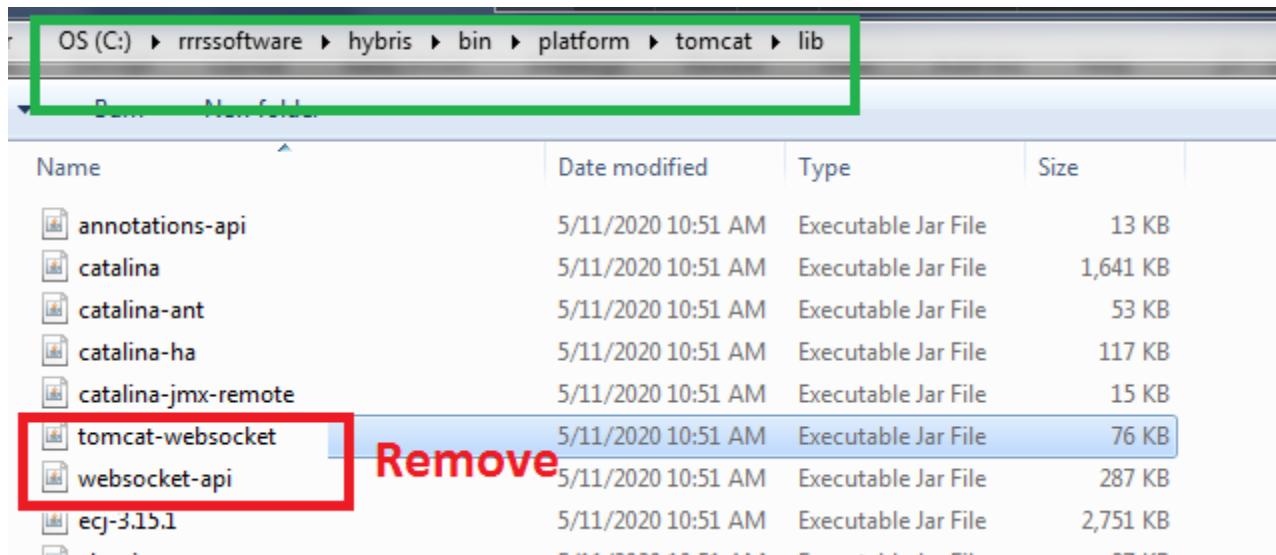
Sol1 = Turn off Cronjobs [Default Cronjobs]



Sol2 = Remove unused Tenants



Sol3 = Remove Web Socket Jar file

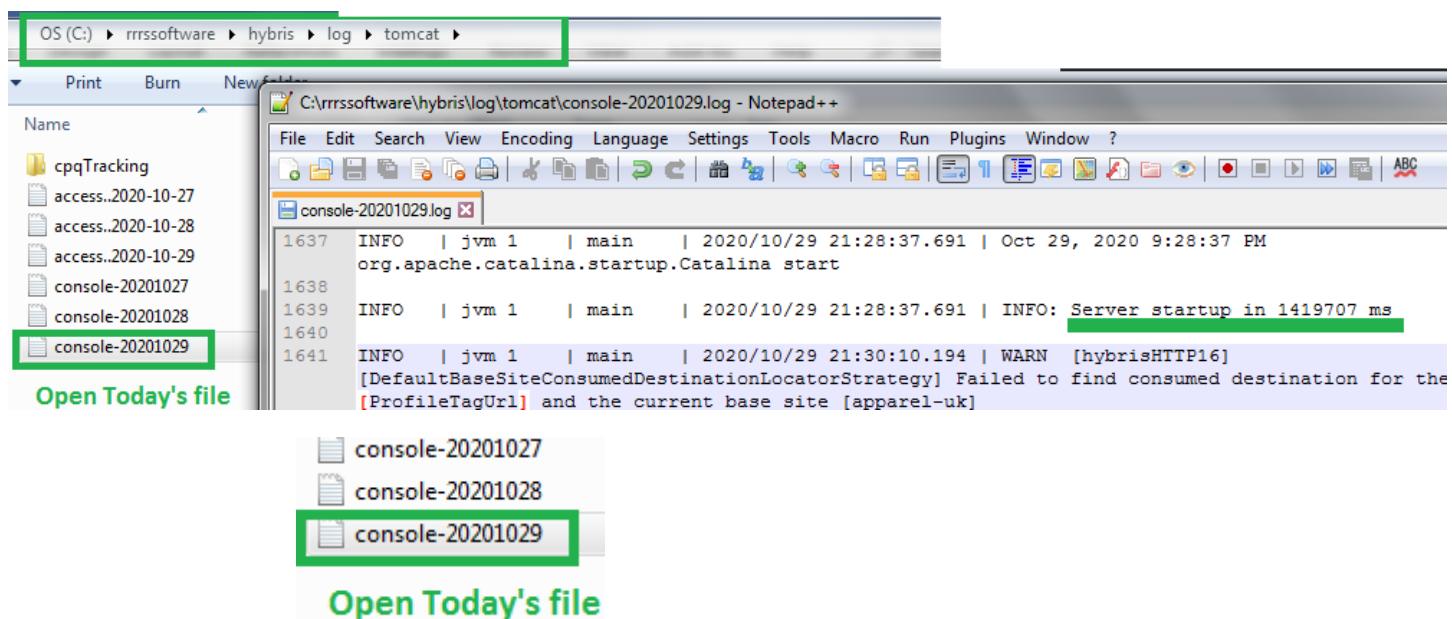


Note: - After doing above 3 solutions...

Do the build [“**ant clean all**”] &

Start the server [**Hybrisserver.bat**] and check the **server start up time / speed**. This improves almost 40% – 50% time.

Scenario = How to see the “SAP Comm” hybris server logs?



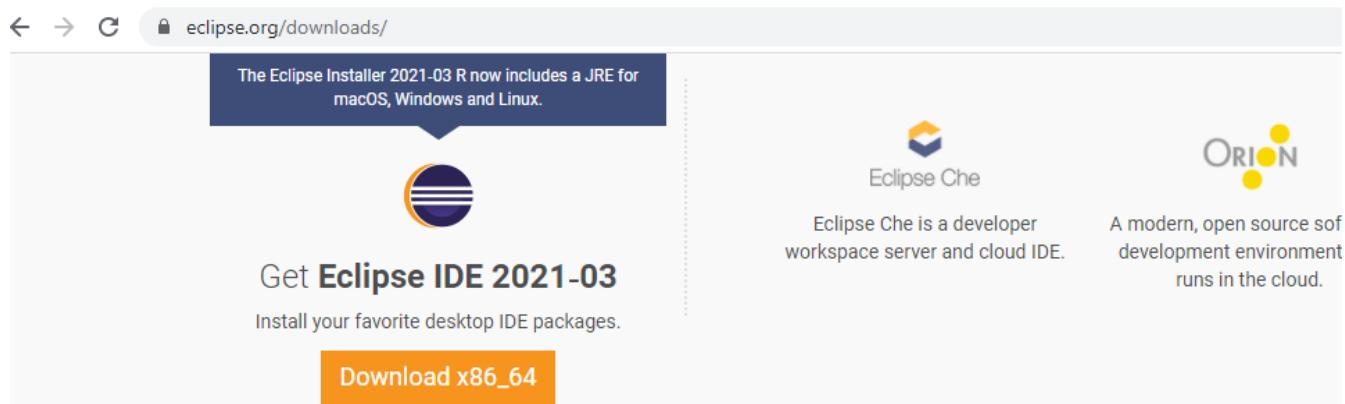
Scenario = “SAP Comm” provides lots of code.

We can use any Editor [**Eclipse** / IntelliJ / Notepad / ...] for coding.

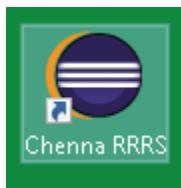
Download Eclipse & Install it.

URL = <https://www.eclipse.org/downloads/>

Note = You can download any version.



Results = After install Eclipse

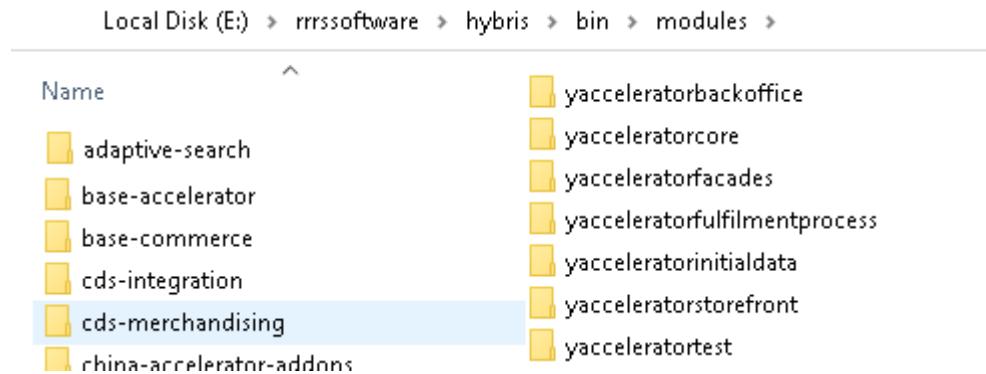


Contact Us = ChennaReddyTraining@RRRS.CO.IN

Scenario = How to import “SAP Comm” code into Eclipse?

In “Java / .NET” – Project === “SAP Comm” – Exts.

SAP Comm – provides lots of Exts.

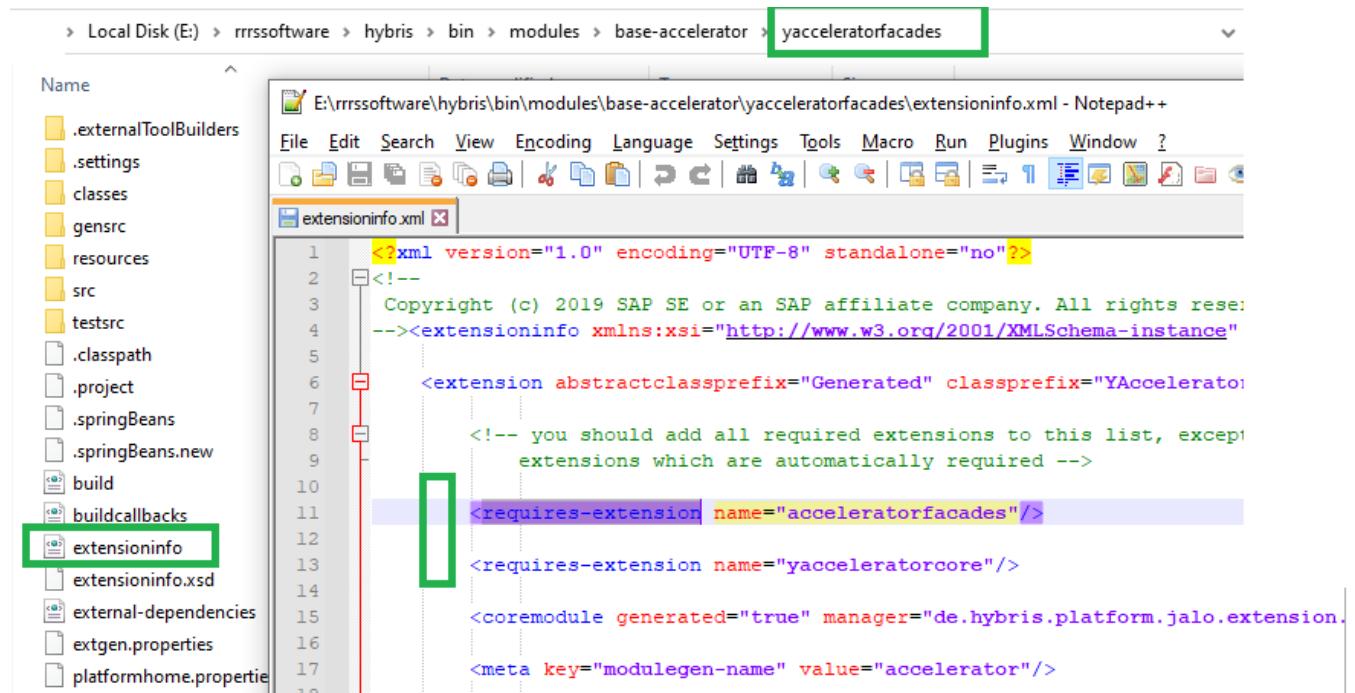


1 Exts can depend on another Exts.

Q = Where can we see the Exts dependencies?

Ans = extensioninfo.xml

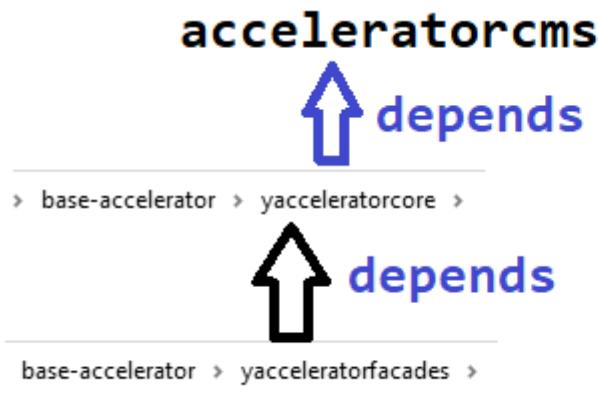
Example =



1 Ext can depend on 1 / more other Exts.

Example == yacceleratorfacades is the Ext & It depending on acceleratorfacades & yacceleratorcore

Example =

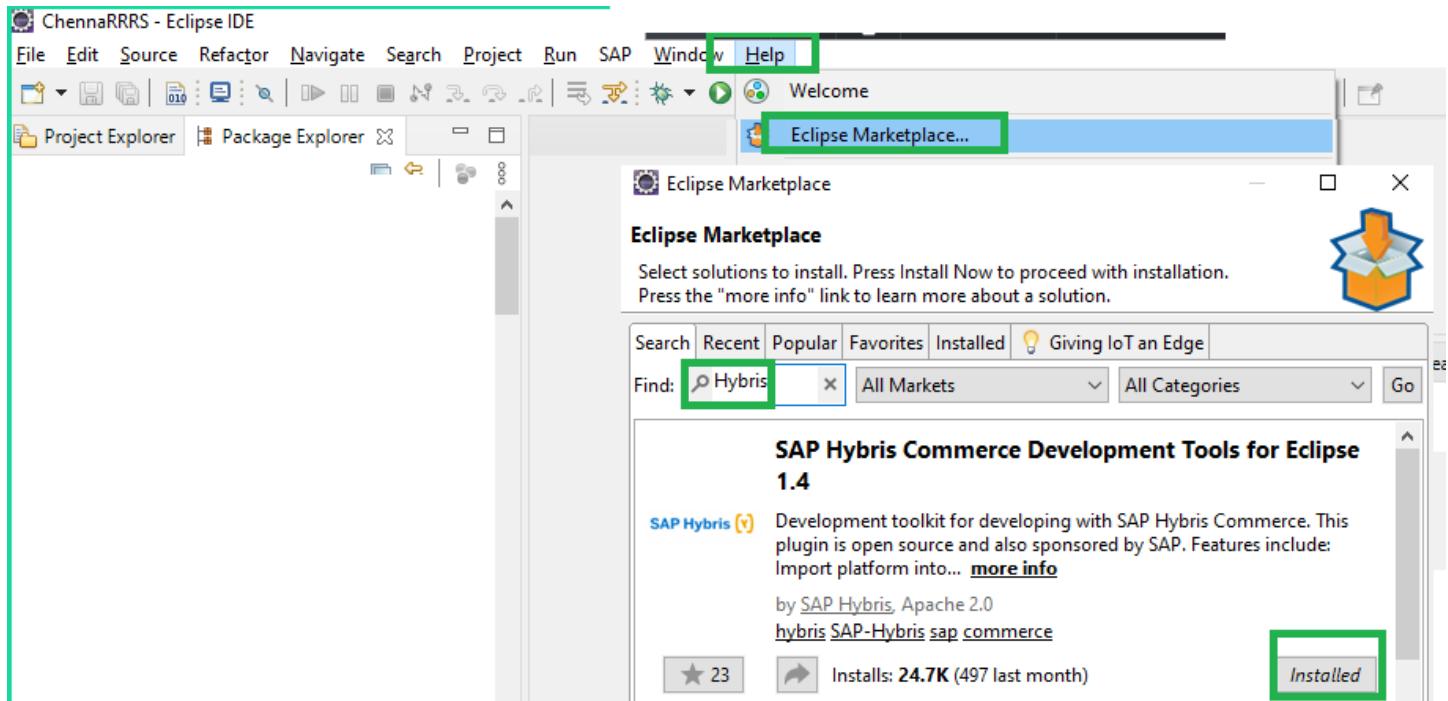


Note = It is very difficult for us to identify all dependent Exts & load into Eclipse

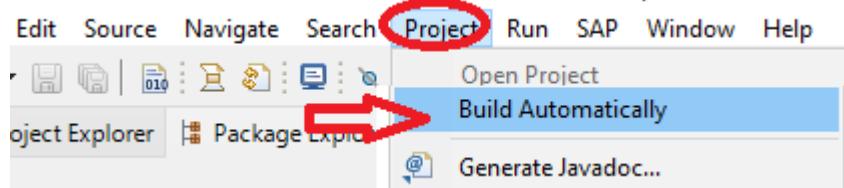
== It's very difficult for us to identify all the dependent Exts & load into Eclipse. **Q** = Is there any easy for this?

Ans = We can use Plug-Ins. This Plug-in will identify all the dependent Exts & load into Eclipse.

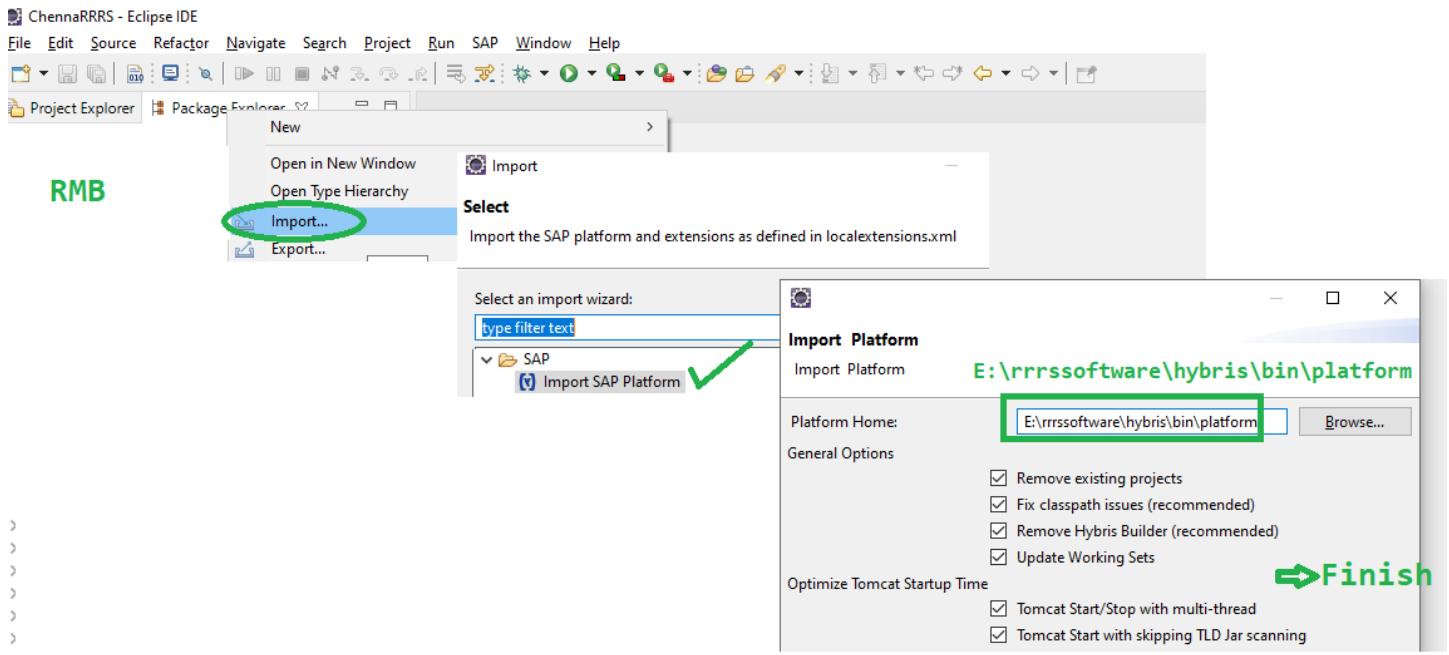
Step 1 = Open the Eclipse & Install the Plug-In [& then restart Eclipse]



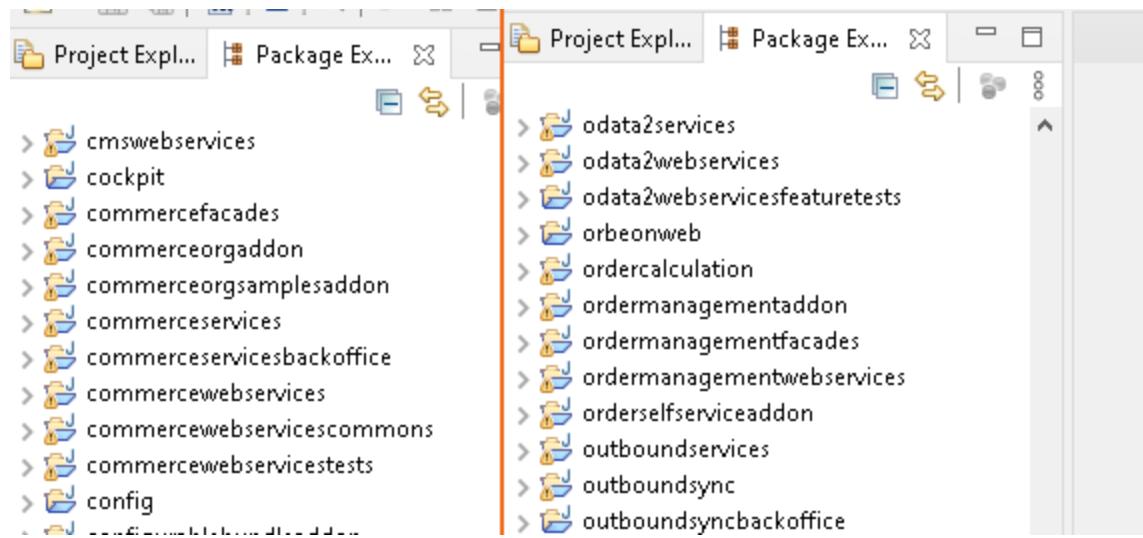
Step 2 = Disable Build Automatically



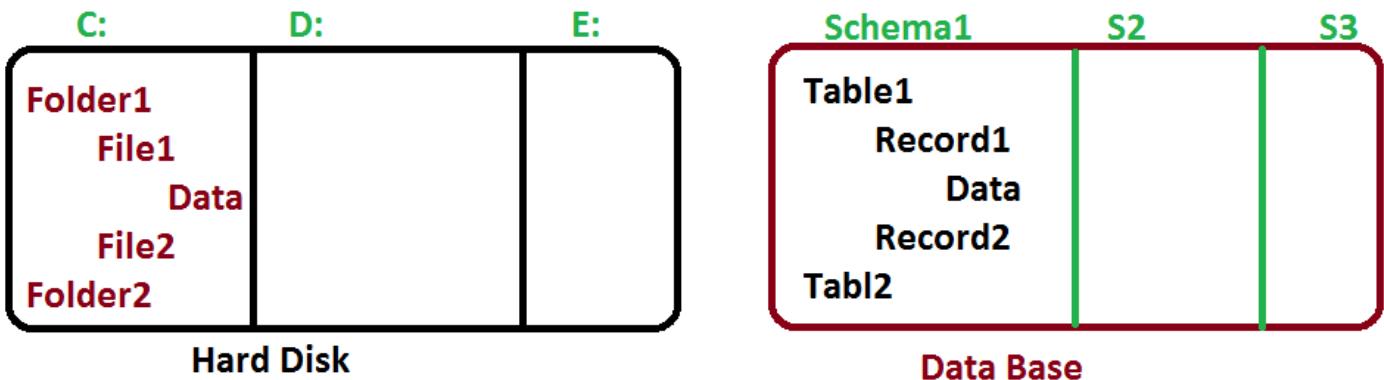
Step 3 = Open Eclipse -- Import the Code



Results – After import



Scenario = What exactly happened during the **INIT**?



- 1) Removes all the existing data
 - a. Standard data / Sample data
 - b. Project Specific data
- 2) Removes all the tables
- 3) Removes the Schema
- 4) Recreates the Schema
- 5) Recreates the tables
- 6) Recreates the Data --- Only Standard data / Sample data

Note: - It will not recreate project specific data [Order table data].

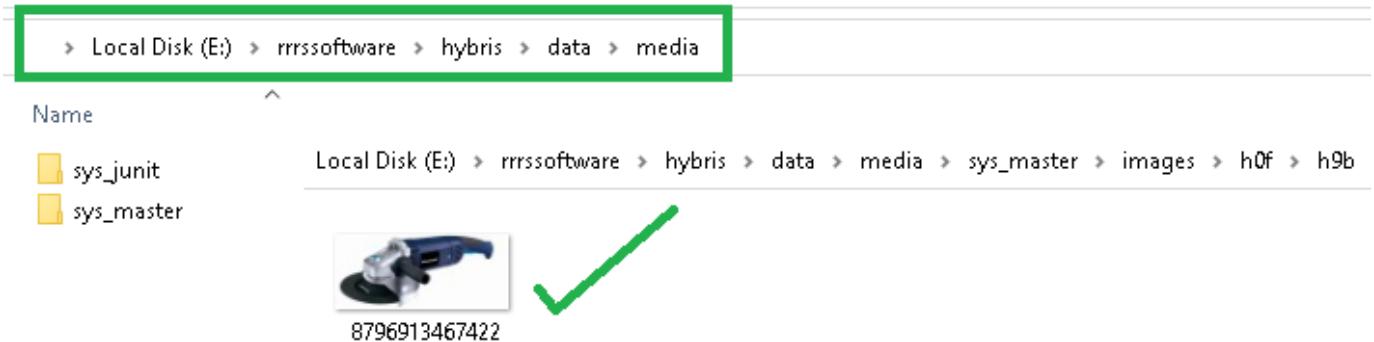
That's why -- before doing the INIT make sure you take "**Project Specific data**" backup.

- 7) Suspends all running Cronjobs

CronJob = Timer (or) Scheduled program.

- 8) All the Cache will be cleared

- 9) Creates the Media folder =



10) Creates the tables based on *-items.xml file

Q: During INIT, these tables (Addresses, Cart... Order....) are created. Where is Source for this tables? (or) What is the input for this tables?

In Hybris -- We have *-items.xml files = This files have the DB Design.

```

<itemtype code="Address"
          extends="GenericItem"
          jaloClass="de.hybris.platform.jalo.user.Address"
          autoCreate="true"
          generate="true">
    <deployment table="Addresses" typeCode="23" propertyTable="AddressProps"/>
    <attributes>
        <attribute autoCreate="true" qualifier="original" type="Address">
            <modifiers read="true" write="false" initial="true" search="true" />
            <persistence type="property"/>
        </attribute>
    </attributes>
</itemtype>

```

11) Set the Licence

“SAP Comm” Developer LIC = 30 Days.

You can also get unlimited LIC.

Q = How to see the LIC information?

Not secure | localhost:9002/platform/license

You're Administrator [Logout](#)

(*) hybris administration console

Platform Monitoring Maintenance Console

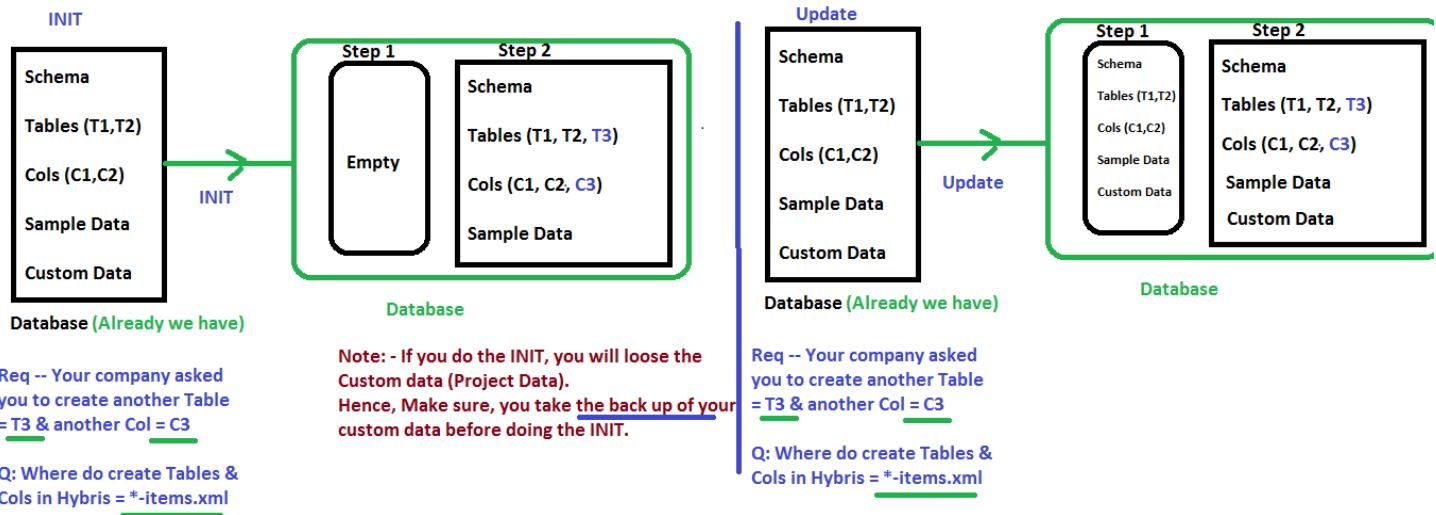
Tenants Configuration System Logging Extensions Initialization Update SQL Scripts License Support PKAnalyzer Classpath Analyzer

Info Remaining days

This licence is only for demo or develop usage and is valid for 30 days. 30

Scenario = What is the difference between INIT & Update?

The screenshot shows the hybris administration console interface. At the top, there's a browser header with 'hybris administration console' and a 'Not secure' warning. Below it is the main navigation bar with tabs: Platform, Monitoring, Maintenance, Console, Tenants, Configuration, System, Logging, Extensions, Initialization (highlighted with a green box), Update (highlighted with a blue box), SQL Scripts, License, and Support. A banner at the bottom says 'Optimize. 2 hours 39 minutes. Enjoy!'. On the right side, it says 'You're Administrator' and has a 'logout' button.



Q = When do I go for INIT & When do I go for Update?

1st time go with **INIT**.

If you feel that your DB is corrupted, then go with **INIT**.

==> Else, Remaining situations (Whenever modified Col / Table / ...) then go with **Update**.

Assume that... This is Production hAC.

You have access

I have access

Chenna have access

Platform Monitoring Maintenance Console

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Optime. 14 minutes Enjoy!

I Started INIT @ 10 AM.
Takes ~(1 - 3) Hrs

Can you start INIT again @ 10.3 AM? = No

SAP Comm uses SYSTEMINIT table to control this.
If globalID = 0 then allows INIT.
If globalID = 1 then will not allow INIT.

Before INIT / Update

select * from SYSTEMINIT;

id	locked	tenantId	clusterNode	lockdate	process	instanceId
1	globalID	0	master	0	2017-07-05 10:03:38.430	System update

During Update / INIT

id	locked	tenantId	clusterNode	lockdate	process	instanceId
globalID	1	master	0	20...	System update	...

Not secure | localhost:9002/platform/init

You're Administrator logout

Platform Monitoring Maintenance Console

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**INIT is the costly operation.
It's better to restrict the access to this.**

Lock
Initialize
Dump configuration

Database pool
hybris

Database URL
HSQL Database Engine

**Sol1 = Disable / Lock this option.
== E:\rrrrss\software\hybris\config\local.properties
system.unlocking.disabled=true**

Sol2 = Don't show this option.

Scenario = How to hide (or) show the “hAC – Menu” options?

The screenshot shows the hybris administration console interface. At the top, there's a header bar with links for 'Platform', 'Monitoring', 'Maintenance', 'Console', 'Tenants', 'Configuration', 'System', 'Logging', 'Extensions', 'Initialization', 'Update', 'SQL Scripts', 'License', 'Support', and 'PK Analyzer'. A blue box highlights the 'Update' link. To the right, it says 'You're Administrator' and has a 'logout' button. Below the header, a banner reads 'Assume that -- This is Production - hAC'. On the left, there's a message 'Optimize. 3 hours 51 minutes. Enjoy!'. In the center, there are three cards: 'Chenna RRRS Want these options', 'Gokul -- Want to see the log details', and 'Misra -- Want to see the Tables Data'. At the bottom, there are links for 'Memory overview', 'Threads overview', and 'CPU Load (4 processors)'. A green box highlights the 'Console' link in the top navigation bar.

Ans = SAP Commerce - Security-Roles - Configuration

U take any eComm Site – Q = How many types of **Users** will be there?

Ans = 2 Types of Users

1) Customers = People who uses the eComm Site

- Anonymous Customer = People who do not enter any of their information.
- Guest Customers = People who provides their unique ID.

Q = Can we book the ticket in bookmyshow.com without login? = Yes, by providing unique id [email or mobile no].

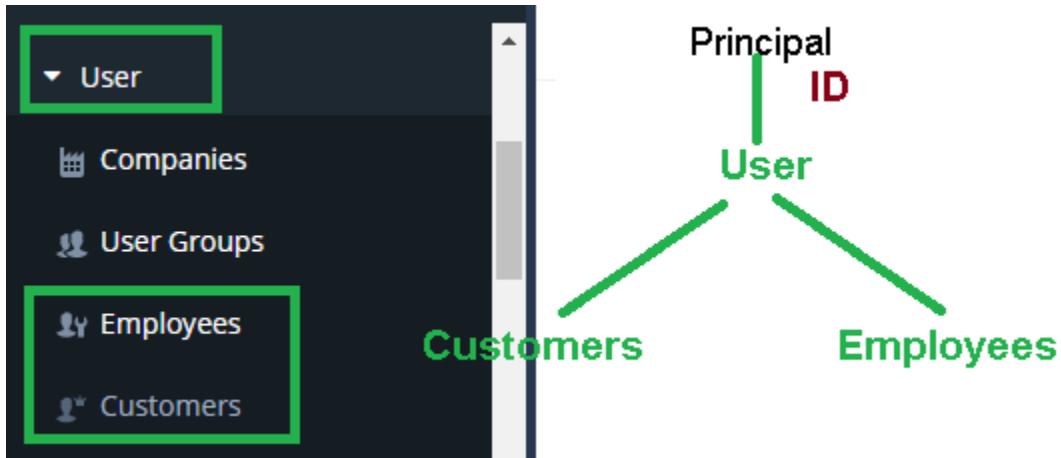
- Login Customers = For login customer in the system “profile / account” will be created.

Q = Can we book the ticket in **irctc.co.in** without login? = No

2) Employees = People who manages the eComm Site

- Product Managers
- Content Managers

- c. Admin
- d. CS Agent
- e. =====



Step 1 = Create the User = chennarrrs

The screenshot shows the SAP Administration Cockpit with the 'Create New Employee' form open. The 'ID' field contains 'chennarrrs', the 'Name' field contains 'Chenna RRRS', and a green arrow points to the 'DONE' button.

Create New Employee

GENERAL
Basic user information

ID: chennarrrs

Name: Chenna RRRS

Description:

DONE

Step 2 = Let's assign "admin" group: -

The screenshot shows the SAP Administration Cockpit interface. On the left, a sidebar menu is open under the 'User' category, showing options like Companies, User Groups, Employees, Customers, Addresses, Titles, and Agreements. Below this is a section for 'SAVED QUERIES' which says 'No queries'. In the center, a search bar at the top has 'chenna' typed into it and a yellow 'SEARCH' button. Below the search bar is a table with columns 'ID' and 'Name'. A single row is selected, showing 'chennarrrs' and 'Chenna RRRS'. This row is highlighted with a green underline. At the bottom of the screen, there is a detailed view for 'Chenna RRRS [chennarrrs]'. The 'GENERAL' tab is selected. Under the 'Groups' section, the value '[admingroup]' is highlighted with a green box. To the right of this, another field contains '[employeegroup]'. There are tabs for ADDRESSES, PASSWORD, ORDERS, EMPLOYEE PRICES, PERSONALIZATION, and ADMINISTRATION.

Create the password: -

The screenshot shows the SAP CX Backoffice interface. At the top, the title 'Chenna RRRS [chennarrrs]' is displayed. Below the title, there are buttons for 'REFRESH' and 'SAVE'. A navigation bar includes tabs for GENERAL, ADDRESSES, PASSWORD, ORDERS, EMPLOYEE PRICES, PERSONALIZATION, and ADMINISTRATION. The 'PASSWORD' tab is currently selected and highlighted with a green box. Under the 'PASSWORD' tab, there is a 'Password Type' dropdown set to 'Standard'. Two password fields are shown below: one with the value '.....' and another with the value '.....|'. To the right of these fields is a 'Disable Login' section with a radio button for 'True' (which is unselected) and a blue radio button for 'False' (which is selected). There are also sections for 'Password Question' and 'Last Login'.

Results =

The screenshot shows the hybris administration console interface. At the top, the title 'hybris administration console' is displayed. Below the title, there is a login form with fields for 'username' (containing 'chennarrrs') and 'password' (containing '.....'). To the right of the login form, a message reads 'Chenna RRRS able to see everything Bcoz "admin" group is assigned.' Below this message, a banner says 'Optimize. 4 hours 40 minutes. Enjoy!'. At the very bottom of the screen, there is a footer bar with links for Platform, Monitoring, Maintenance, Console, Tenants, Configuration, System, Logging, Extensions, Initialization, Update, SQL Scripts, License, Support, and PK Analyzer.

Contact Us = ChennaReddyTraining@RRRS.CO.IN

Step 3 = Let's assign only "Platform – Initialization & Update".

The screenshot shows the SAP CX Backoffice interface. On the left, a sidebar lists 'User' categories: Companies, User Groups, Employees (highlighted with a green box), Customers, Addresses, Titles, and Agreements. Under 'SAVED QUERIES', it says 'No queries'. The main area displays a list of users with 'chennarrs' selected. Below the list, the user details for 'Chenna RRRS [chennarrs]' are shown. In the 'PERSONALIZATION' tab, under 'Groups', two groups are assigned: '[hac_platform_update]' and '[hac_platform_initialization]', both highlighted with a green box.

Results =

The image contains two side-by-side screenshots of the hybris administration console. The left screenshot shows the login page with the username 'chennarrs' highlighted by a yellow arrow. The right screenshot shows the main dashboard with the 'Initialization' and 'Update' tabs highlighted with a green box. The top of each screenshot shows browser tabs for 'hybris administration console | H' and 'SAP CX Backoffice'.

Q = How do we know the “Groups” Info? = spring-security-config.xml

The screenshot shows a code editor with the file 'spring-security-config.xml' open. The code is a Spring Security configuration file containing numerous 'intercept-url' elements. A vertical green bar highlights the first few lines of the code. The code includes various access rules and roles such as 'ROLE_ADMININGROUP', 'ROLE_HAC_PLATFORM_TENANTS', 'ROLE_HAC_PLATFORM_CONFIGURATION', 'ROLE_HAC_PLATFORM_SYSTEM', 'ROLE_HAC_PLATFORM_LOGGING', 'ROLE_HAC_PLATFORM_EXTENSIONS', and 'ROLE_HAC_PLATFORM_SQLSCRIPTS'. The file spans from line 84 to 106.

```

84<http access="decision-manager-ref="accessDecisionManager" use-expressions="false">
85    <session-management session-authentication-strategy-ref="fixation"/>
86    <intercept-url pattern="/login" access="PERMIT_ALL" requires-channel="https"/>
87    <intercept-url pattern="/tenants/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_TENANTS" requires-channel="https"/>
88    <intercept-url pattern="/platform/config/?*edited/*" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CONFIGURATION" requires-channel="https"/>
89    <intercept-url pattern="/platform/config/valuechanged/*" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CONFIGURATION" requires-channel="https"/>
90    <intercept-url pattern="/platform/config/?*/*" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CONFIGURATION" requires-channel="https"/>
91    <intercept-url pattern="/platform/config/*" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CONFIGURATION, ROLE_HAC_PLATFORM_CONFIGURATION_<!-->">
92    <intercept-url pattern="/platform/system/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_SYSTEM" requires-channel="https"/>
93    <intercept-url pattern="/platform/log4j/changeLevel/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_LOGGING" requires-channel="https"/>
94    <intercept-url pattern="/platform/log4j/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_LOGGING, ROLE_HAC_PLATFORM_LOGGING_LIMITED" requ<!-->uirements="ROLE_HAC_PLATFORM_LOGGING, ROLE_HAC_PLATFORM_LOGGING_LIMITED" requires-channel="https"/>
95    <intercept-url pattern="/platform/extensions/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_EXTENSIONS" requires-channel="https"/>
96    <intercept-url pattern="/platform/init/data/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_INITIALIZATION, ROLE_HAC_PLATFORM_UPDATE, HY<!-->BRIS_NOT_INITIALIZED" requires-channel="https"/>
97    <intercept-url pattern="/platform/init/pendingPatches/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_INITIALIZATION, ROLE_HAC_PLATFORM_<!-->INITIALIZATION" requires-channel="https"/>
98    <intercept-url pattern="/platform/init/execute/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_INITIALIZATION, ROLE_HAC_PLATFORM_UPDATE,<!-->HYBRIS_NOT_INITIALIZED" requires-channel="https"/>
99    <intercept-url pattern="/platform/init/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_INITIALIZATION, HYBRIS_NOT_INITIALIZED" requires-100<!-->channel="https"/>
101   <intercept-url pattern="/platform/update/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_UPDATE" requires-channel="https"/>
102   <intercept-url pattern="/platform/dryrun/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_SQLSCRIPTS, ROLE_HAC_PLATFORM_INITIALIZATION, HYBRIS_NOT_INITIALIZED" requires-channel="https"/>
103   <intercept-url pattern="/platform/jars/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CLASSPATHANALYZER" requires-channel="https"/>
104   <intercept-url pattern="/platform/jars_hawtow/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CLASSPATHANALYZER" requires-channel="https"/>
105   <intercept-url pattern="/platform/license/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_LICENSE" requires-channel="https"/>
106   <intercept-url pattern="/platform/support/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_SUPPORT" requires-channel="https"/>
<intercept-url pattern="/platform/pkalyzer/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_PKALYZER" requires-channel="https"/>
```