Beginning Development on SAP HANA

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Sep 20, 2017 · 3 min read

In this article we will start preparing our environment for developing HANA applications and extensions.

To connect our HANA DB, we have to download Eclipse installation package which meet our expectations.

			Neon	Oxygen
ABAP	ABAP Development Tools for SAP NetWeaver		✓	✓
BW	Modeling Tools for SAP BW powered by SAP HANA		✓	
Cloud	SAP Cloud Platform Tools Latest SDK downloads: • Java Web: **neo-java-web-sdk-1.133.4.zip** • Java Web Tomcat 7: **neo-java-web-sdk-2.80.4.zip** • Java Web Tomcat 8: **neo-java-web-sdk-3.34.3.zip** • Java EE 6 Web Profile: **neo-javaee6-wp-sdk-2.115.1.zip** • Java EE 7 Web Profile TomEE 7: **neo-javaee7-wp-sdk-1.4.4.zip** (Beta)		✓	✓
Cloud Integration	SAP Cloud Platform Integration Tools		✓	
HANA	SAP HANA Tools		✓	
IdM	SAP Identity Management Configuration Lifecycle Tools		✓	
Mobile	SAP Mobile Tools			
SAPUI5	UI Development Toolkit for HTML5		✓	

Troubleshooting

If you have any problems installing the software, please check the document SAP Development Tools for Eclipse Installation: FAQ and Known Issues.

```
tools.hana.ondemand.com
```

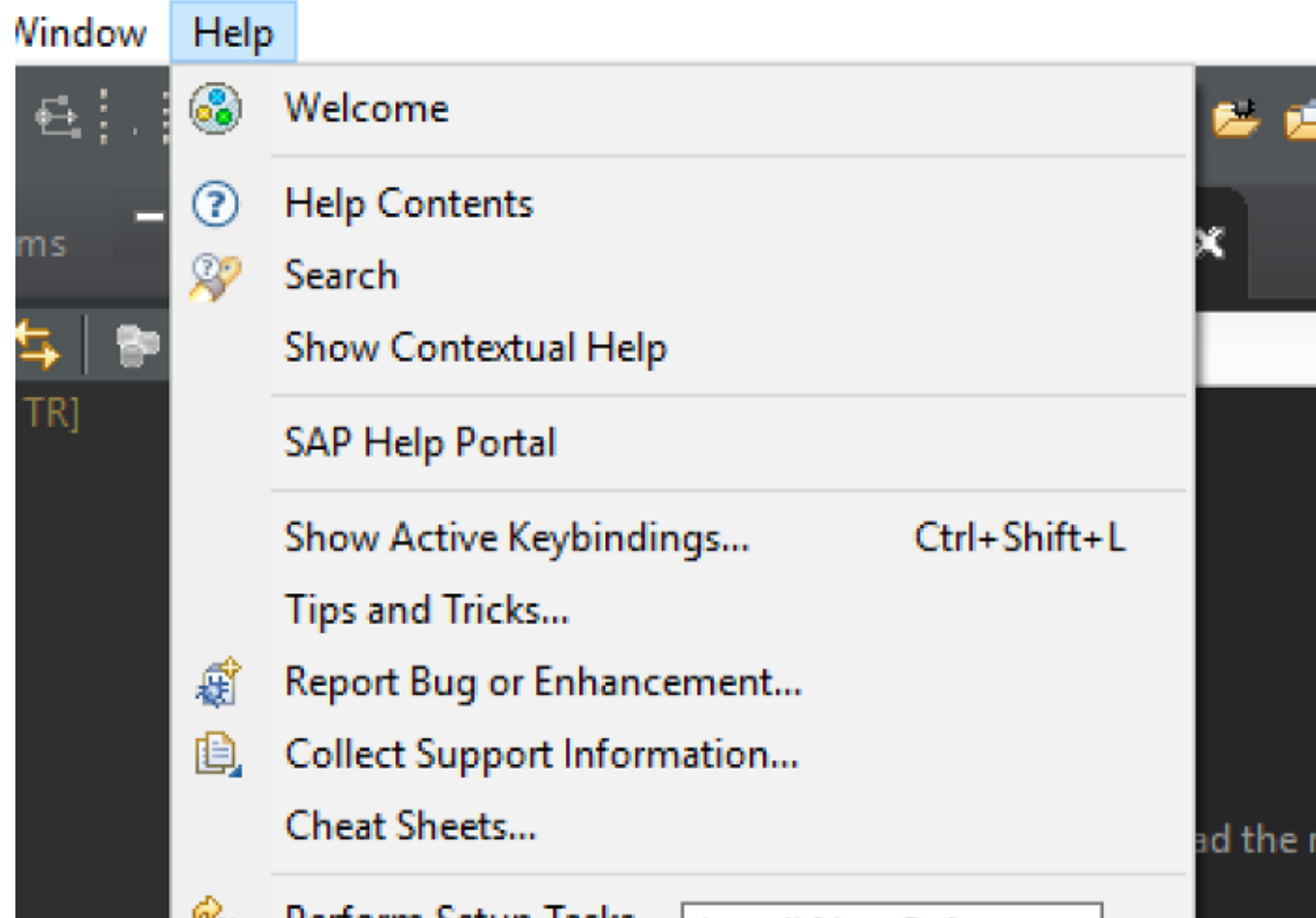As you see Eclipse Neon currently supports packages we need.

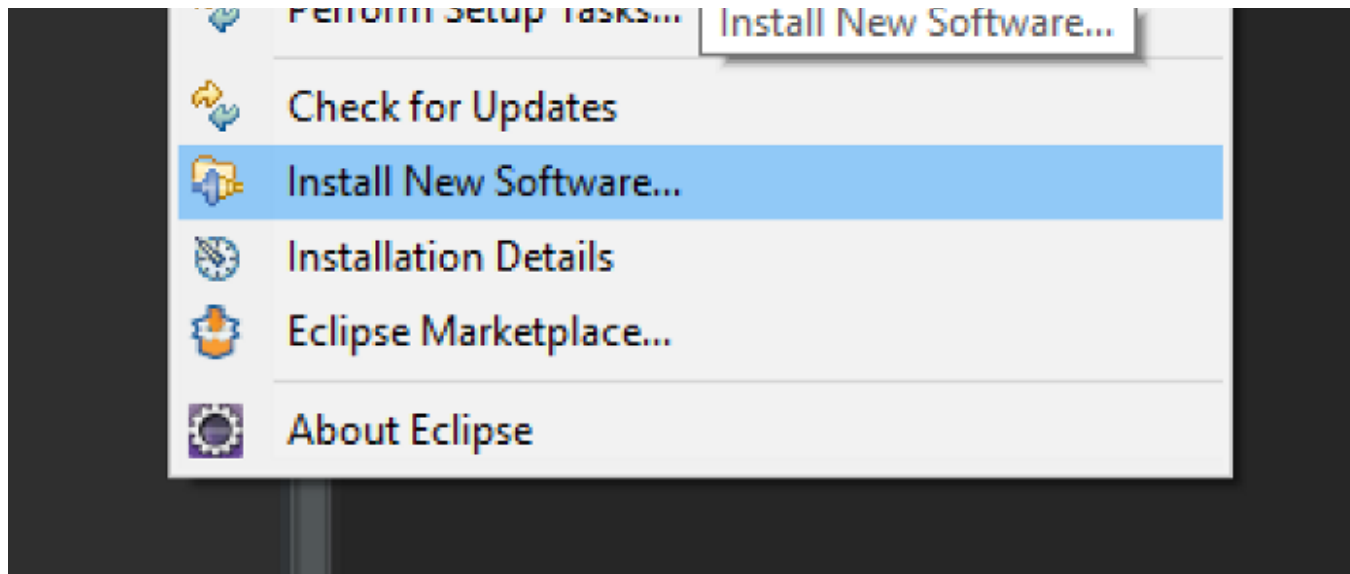You can download Eclipse Neon link below;

```
www.eclipse.org/neon/
```

After downloading Eclipse you should import relevant packages from SAP Development Tools.
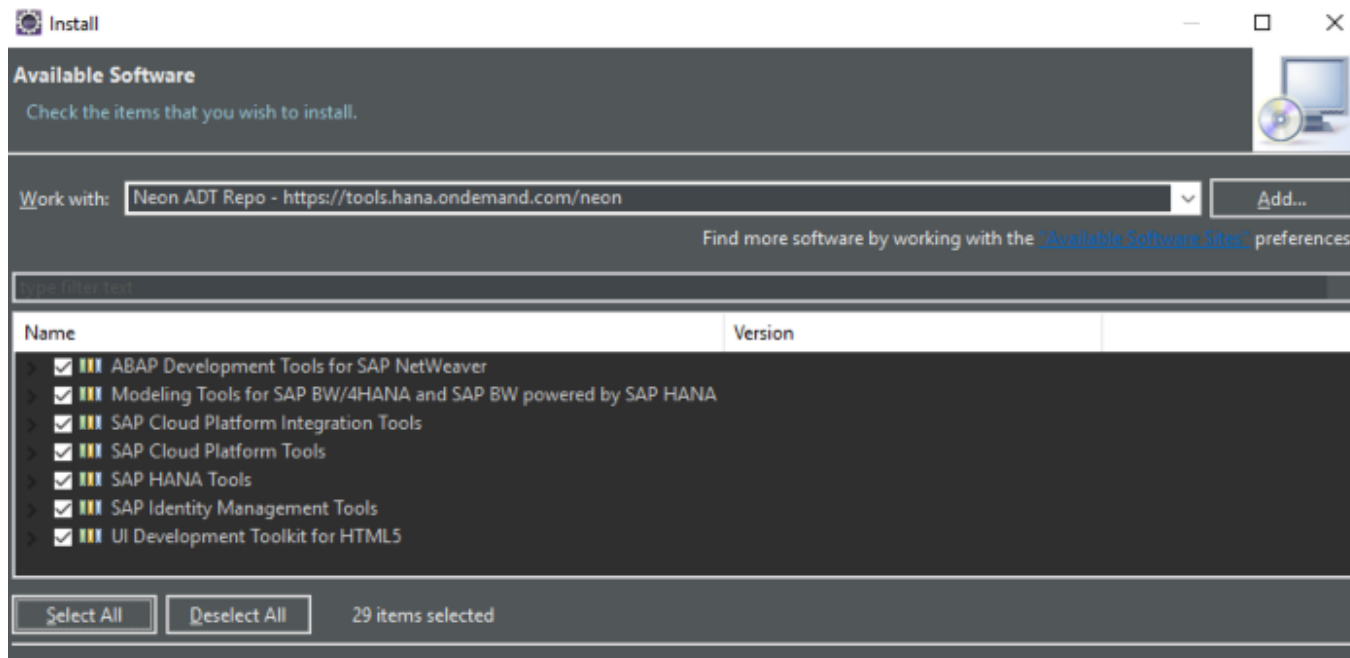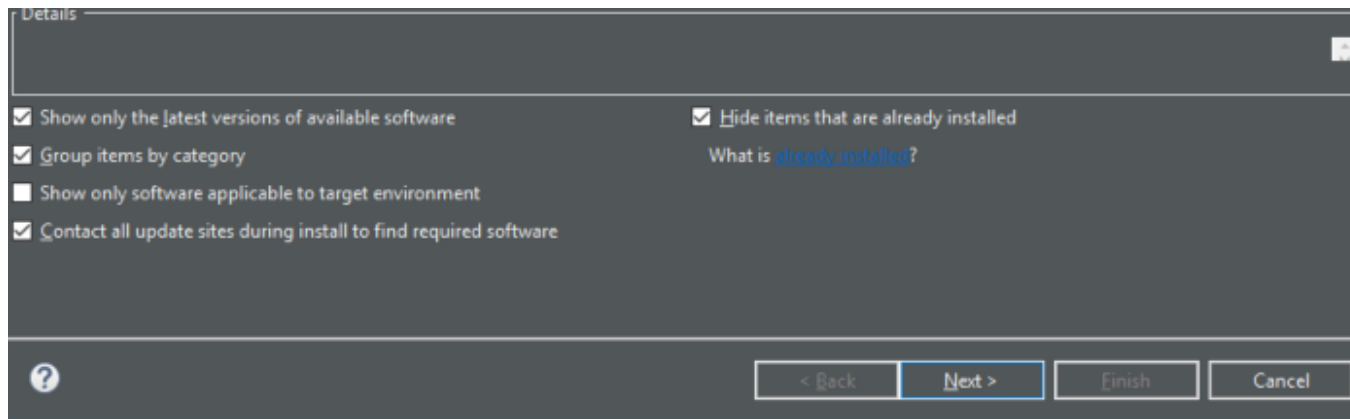
```
Open Eclipse Neon -> Help -> Install New Software
```

Perform Setup Tasks... | Install New Software...

🔄 Check for Updates

🔧 Install New Software...

🕐 Installation Details

⬆ Eclipse Marketplace...

⚙ About Eclipse

• • •

Install   — □ ✕

Available Software
Check the items that you wish to install.

Work with: Neon ADT Repo - https://tools.hana.ondemand.com/neon   ▾   Add...

Find more software by working with the _"Available Software Sites"_ preferences.

type filter text

Name	Version	
☑ ▐ ABAP Development Tools for SAP NetWeaver		
☑ ▐ Modeling Tools for SAP BW/4HANA and SAP BW powered by SAP HANA		
☑ ▐ SAP Cloud Platform Integration Tools		
☑ ▐ SAP Cloud Platform Tools		
☑ ▐ SAP HANA Tools		
☑ ▐ SAP Identity Management Tools		
☑ ▐ UI Development Toolkit for HTML5		

Select All   Deselect All   29 items selected

You can either choose to install all available packages from repository or you can only install SAP HANA Tools package, it is up to you.

After installation of required tools, you should switch your Eclipse perspective to HANA Development to be able to see Systems section.
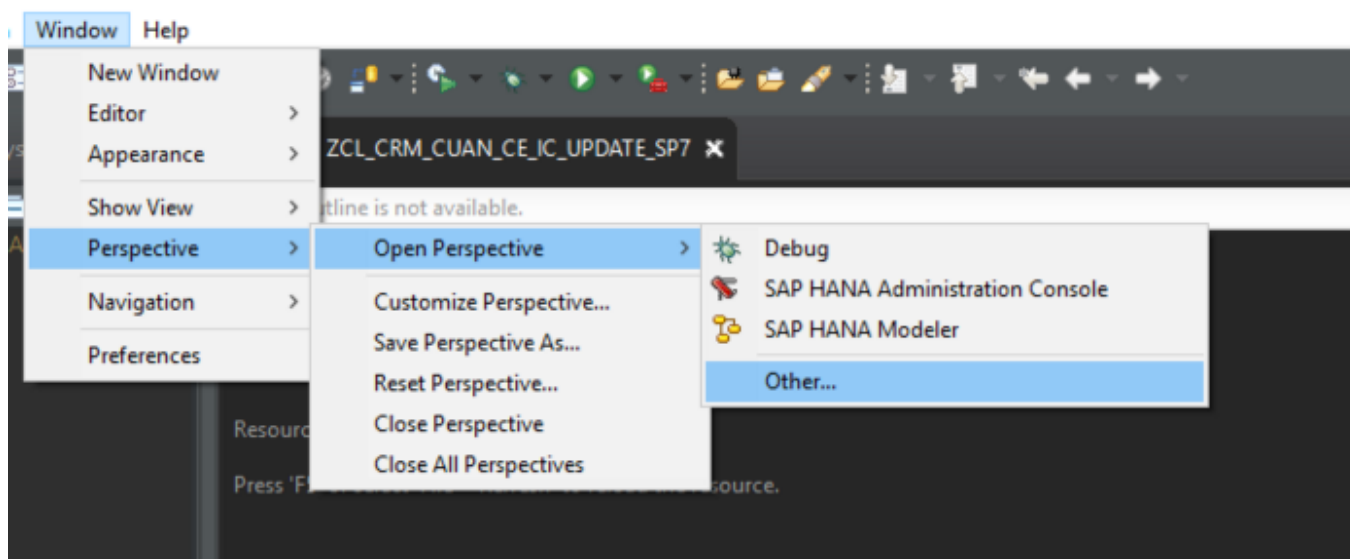
Open Perspective

- Java EE (default)
- Java Type Hierarchy
- JavaScript
- JPA
- Planning
- Plug-in Development
- Profiling
- Remote System Explorer
- Resource
- SAP HANA Administration Console
- **SAP HANA Development**
- SAP HANA Modeler
- SAP HANA PlanViz
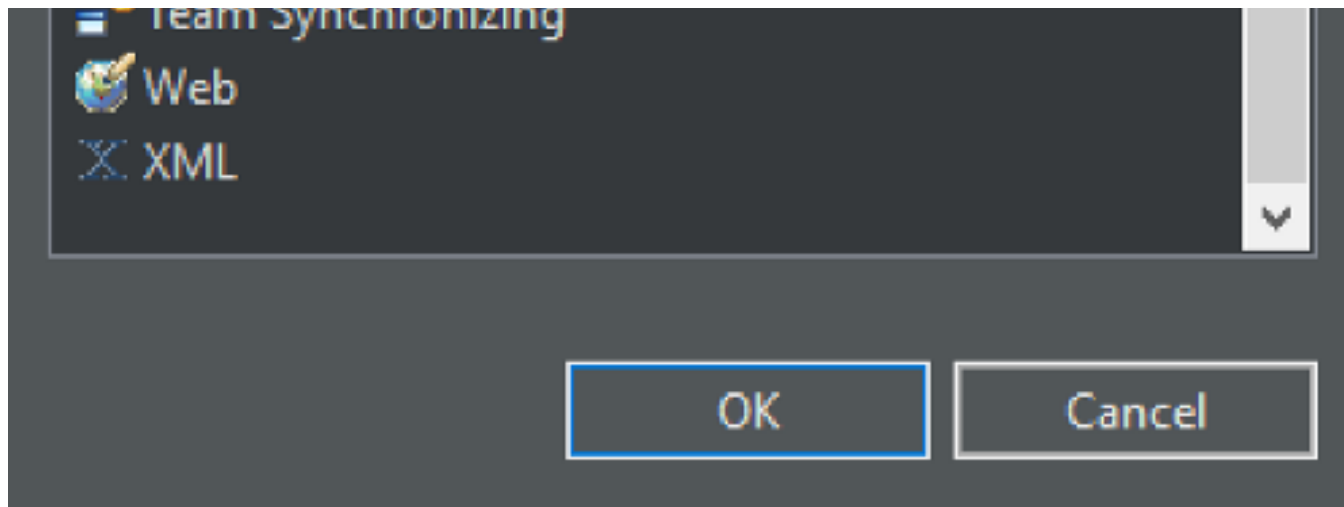
After clicking open, you will see available perspectives.

Choose SAP HANA Development.

. . .
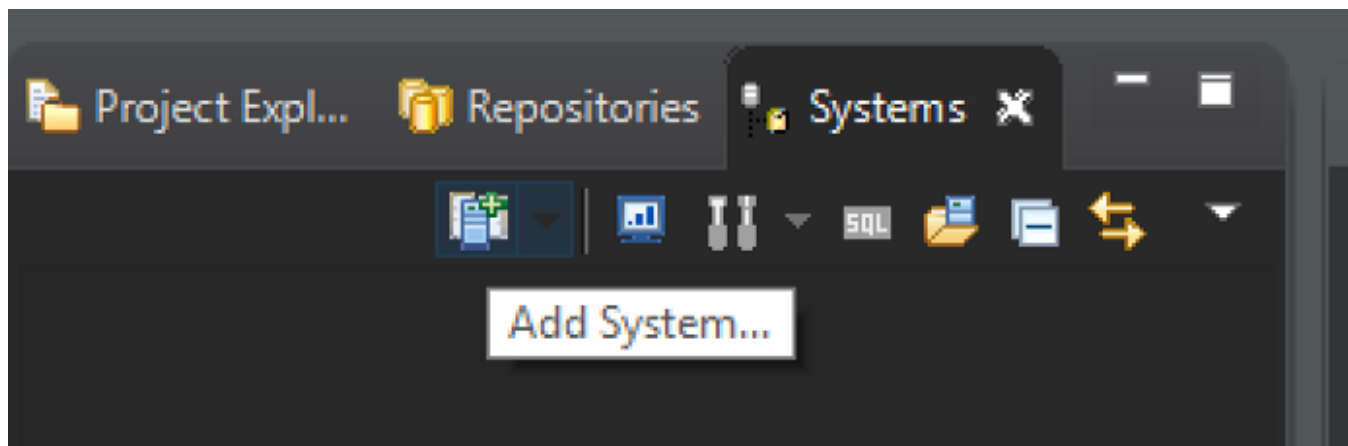
Now click on Add System and add details of your HANA DB.

```
Key Point : Your HANA DB
IP and instance is
different than
your SAP NW server, so
you should get details
and necessary user-password
details from your Basis
consultant.
```

Enter necessary details of your HANA details and connect to system.

Specify System

Specify the host name and instance number of the system.

Host Name: ⓘ 10.10.10.10

Instance Number: 11

Mode: ⦿ Single container

◯ Multiple containers

◉ Tenant database

Name: [   ]
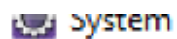
🖳 System   — ⊔ ⌃

Connection Properties

Specify the properties for connecting to the system.

Authentication can be carried out using the current operating system user or a valid SAP HANA database user

◯ Authentication by current operating system user

⦿ Authentication by database user

User Name: GYILMAZ

Password: ●●●●●●●

☑ Store user name and password in secure storage

☐ Connect using SSL

☑ Enable SAP start service connection

☐ Use HTTPS

After successful connection, you can see details of your DB.
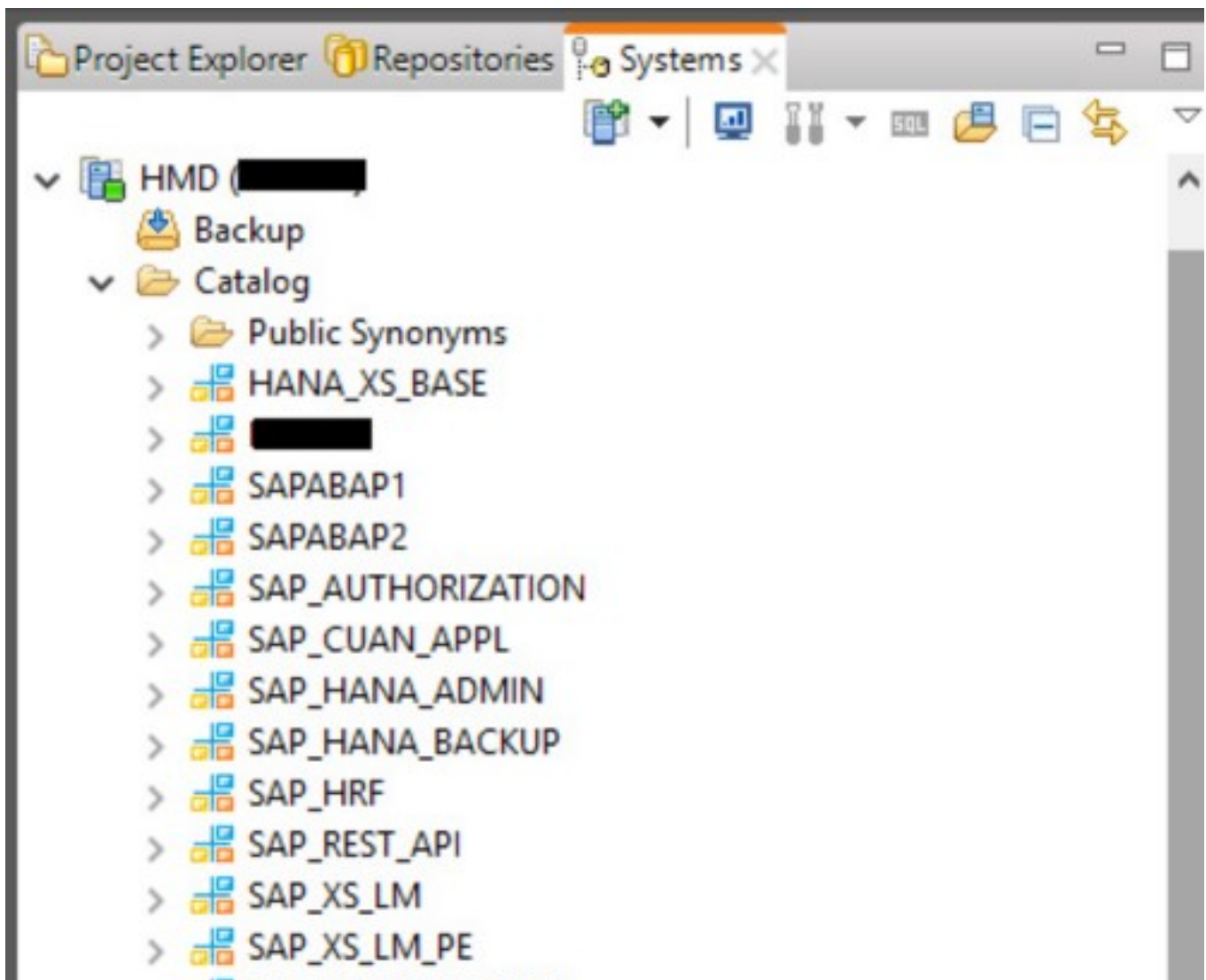
- SAP_XS_LM_PE_TMP
- SAP_XS_USAGE
- SYS
- SYSTEM
- UIS
- _SYS_AFL
- _SYS_BI
- _SYS_BIC
- _SYS_REPO
- _SYS_RT
- _SYS_SECURITY
- _SYS_STATISTICS
- _SYS_TASK
- _SYS_XS
- Content
  - HRF_Rule_Services
  - HRF_Rules
  - public
  - sap
  - system-local
  - XSDemo
  - ZCRM_MARKETING

Most critical point of this configuration guide is the Security section. If you don't have necessary security permissions you cannot do any operations on system.

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In next chapter of this series we will talk about what is our options on HANA databases to help our development process. See you next time.

Happy coding!

Eclipse   Abap   Hana   Sapui5   Sap