

Ready-to-launch NetWeaver 7.5 with CRC 12



Document History		
Version	Issue Date	Changes
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## 1. Introduction

Installing a new NetWeaver 7.5 system, updating it to the latest the latest support pack stack, installing the GRC add-on and ensuring that the database is patched can take a couple of weeks to implement. With the ready-to-launch instance available from the AWS Marketplace it allows you to quickly have a system up and running and ready for configuration.

## 2. System Specification

Component	Parameter		
Operating System	SLES 15 SP1		
Database	MaxDB 7.9.10.04		
Application(s)	SAP Netweaver 7.5 SPS 17 + GRC 10 SP 7		
Installation Type	Central Installation		
Hardware	Recommended r5.n.xlarge or larger. Stay with generation 5 (C5, M5, R5) instances		
Kernel	SAP Kernel 7.53 patch 600		
Installation Directories	Volume	FS	Size
	OS Root	XFS	60GB
	Page File	XFS	32GB
	/usr/sap	XFS	100GB
	/sapdb/ACP/sapdata1	XFS	50GB
	/sapdb/ACP/sapdata2	XFS	50GB
	/sapdb/ACP/sapdata3	XFS	50GB
	/sapdb/ACP/saplog	XFS	20GB
Hostname	Sapacp.sap.aws		
Unicode or Non-Unicode	Unicode		
SAP Identifiers	SAP SID	S Number	
	ACP	ASCS: 01 PAS: 00	

### 3. Launching the new system

1. Log on to the AWS console, go to EC2, Launch a new system
2. Select the AWS Marketplace on the left-hand side and search for **SAP NetWeaver 7.50 with GRC 12**
3. Select a C5n, M5n or R5n instance xlarge instance or higher size.

General purpose	r5n.xlarge	4	32	EBS only	Yes	Up to 25 Oligabit	Yes
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4. Configure instance details
  - a. Assign IAM role to the server as detailed in the [AWS Data provider for SAP](#) guide page 3 -6. (The AWS Data provider is already installed on the server)
  - b. Enable Cloudwatch detailed monitoring
5. Add additional volumes if needed.
6. Add Tags

#### Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances (i)	Volumes (i)	
Name	SAPACP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Product	NW7.5 + GRC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

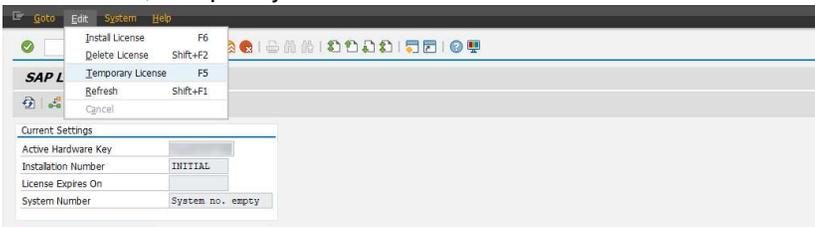
7. Add security groups. The following ports need to be open
  - a. Port 22 for SSH
  - b. Port 3200-01 for SAP GUI
 Optional ports, depending on use case
  - a. Port 3300 for SAP Gateway
  - b. Port 3600 for Message Server

### 4. Post launching activities

- Update the /etc/hosts with the server IP address. (SAP won't start if the name resolution hasn't been corrected)
- The SAP\* password for the installation is M\_sterZ760. You will be requested to change the password at first login.
- After starting SAP complete the following tasks

#### 4.1. Install temp license

- Log in as DDIC using master password
- Run transaction SLICENS
- Click on Edit, Temporary License



- Select NetWeaver\_ADA



## 5. Steps to start SAP

The system has not been configured to start automatically due to the IP address not being known and the hosts file needs to be updated as explained in Section 4

- SSH to the server as ec2-user with the key used during launch. Steps to connect using Putty can be found here :  
<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html>
- Change to the admin user: `sudo su - acpadm`
- Start SAP with the command: `startsap`
- You can check that the system started completed with the command: `sapcontrol -nr 00 -function GetSystemInstanceList`

```
sapacp:acpadm 5> sapcontrol -nr 00 -function GetSystemInstanceList

GetSystemInstanceList
OK
hostname, instanceNr, httpPort, httpsPort, startPriority, features, dispstatus
sapacp, 1, 50113, 50114, 1, MESSAGESERVER|ENQUE, GREEN
sapacp, 0, 50013, 50014, 3, ABAP|GATEWAY|ICMAN|IGS, GREEN
```

## 6. Steps to stop SAP

It is highly recommended to stop SAP and MaxDB before restarting or stopping the instance to prevent having to perform recovery.

- SSH to the server as ec2-user with the key used during launch. Steps to connect using Putty can be found here :  
<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html>
- Change to the admin user: `sudo su - acpadm`
- Stop SAP with the command: `stopsap`

```
sapacp:acpadm 7> stopsap
Checking ADA Database
Database is running
-----
stopping the SAP instance D00
Shutdown-Log is written to /home/acpadm/stopsap_D00.log
-----
/usr/sap/ACP/D00/exe/sapcontrol -prot NI_HTTP -nr 00 -function Stop
Instance on host sapacp stopped
Waiting for cleanup of resources
.....
stopping the SAP instance ASCS01
Shutdown-Log is written to /home/acpadm/stopsap_ASCS01.log
-----
/usr/sap/ACP/ASCS01/exe/sapcontrol -prot NI_HTTP -nr 01 -function Stop
Instance on host sapacp stopped
Waiting for cleanup of resources
..
Trying to stop database ...
Log file: /home/acpadm/stopdb.log
ACP database stopped
Checking ADA Database
Database is not available via R3trans
```

- You can check that the system stopped completed with the command: `sapcontrol -nr 00 -`

*function GetSystemInstanceList*

```
sapacp:acpadm 9> sapcontrol -nr 00 -function GetSystemInstanceList

GetSystemInstanceList
OK
hostname, instanceNr, httpPort, httpsPort, startPriority, features, dispstatus
sapacp, 0, 50013, 50014, 3, ABAP|GATEWAY|ICMAN|IGS, GRAY
- sapacp, 1, 50113, 50114, 1, MESSAGESERVER|ENQUE, GRAY
```

You can double check that the database has been stopped:

- Change to the MaxDB user: `sudo su - sdb`
- Change to the MaxDB binary directory: `cd /sapdb/programs/bin`
- Run the command to check: `./dbmcli -d ACP -u control,<Master Password> db_status`

```
sapacp programs/bin% ./dbmcli -d ACP -u control, db_state
OK
State
OFFLINE
```

- If the database is still online, then you can run the following command to stop the database: `./dbmcli -d ACP -u control,<Master Password> db_offline`