

Technical Articles






Beyhan MEYRALI

November 14, 2022 | 5 minute read

SAP NetWeaver AS ABAP Developer Edition Installation Pitfalls + Video Tutorial

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Hi community :),

After 2 days, I have my SAP NetWeaver AS ABAP Developer Edition 7.52 SP04 on Ubuntu Oracle Virtual box. Don't get scared, it is really easy. But took 2 days of mine.

I have tried to install it on Ubuntu a few times, all failed, then on openSuse those failed too. That is because I am just too lazy to read comments on blog posts. Also I need to give credit to blog authors, that is because **none of them tell you, "It will fail" at first time because of sybase licence** :D. Yeah, that is just part of installation.



So, I have decided to share pitfalls and exact steps with you to install without getting mad. Stay sane and follow steps below! Don't be lazy, read them all first. Pay attention to 25 and 26.

If you are not familiar with Linux and so far did not try and fail installing dev edition, I think you should follow that link ->
<https://abapacademy.com/blog/how-to-install-free-sap-system/> ,best of best so far, which is detailed version of
<https://www.sap.com/documents/2019/09/32638f18-687d-0010-87a3-c30de2ffd8ff.html>

Video Tutorial of This Post

How to Install SAP NetWeaver AS ABAP Developer Edition



Pitfalls

- Step 1 –
 - During installation of Linux Ubuntu, host name should be **vhcalnplci**.
 - Not sure if that is required, but password must be 8 chars and should contain Uppercase and number
- Step 17 – Etc hosts must be maintained
- Step 24 – you need to copy .lic file that is in License.rar to install.sh folder
- Step 25 – uidd must active before starting installation and you need to be root before installing with ./install.sh
- Step 26- you need to copy license file to sybase license folder after failing first attempt

I need to thank [Dylan Drummond](#), [Julie Plummer](#) and the person who pin pointed me after failure [Robert Stefanov](#).

Steps

1- Download Ubuntu **18.10** – <https://old-releases.ubuntu.com/releases/>

Why Old version of Ubuntu? -> <https://blogs.sap.com/2021/06/07/adjusting-installer-script-for-sap-netweaver-dev-edition-for-distros-with-kernel-version-5.4-or-higher/>

Versions and Kernels -> <https://askubuntu.com/questions/517136/list-of-ubuntu-versions-with-corresponding-linux-kernel-version>

<https://download.opensuse.org/distribution/leap/15.1/iso/>

https://en.wikipedia.org/wiki/OpenSUSE#Leap_15.x_series

SUSE 15.1

set computer name : vhcainplci

password should be **8 characters**

- my user name : codezen
- my password : Codezen1

2- Download SAP NetWeaver AS ABAP Developer Edition 7.52 SP04 -
> <https://developers.sap.com/trials-downloads.html>

3- Download and Install Oracle VirtualBox –
<https://www.virtualbox.org/wiki/Downloads>

6.1.34

4- Guest additions installation – optional

5- sudo apt-get update

The repositories are still available on <http://old-releases.ubuntu.com/ubuntu>.

You can change them in /etc/apt/sources.list, replacing all occurrences of <http://archive.ubuntu.com> (or it might <http://tr.archive.ubuntu.com>) with <http://old-releases.ubuntu.com>.

After that, apt-get upgrade will work again.

```
codezen@vhcalnplci: ~
GNU nano 2.9.8 /etc/apt/sources.list

deb cdrom:[Ubuntu 18.10 _Cosmic Cuttlefish_ - Release amd64 (20181017.3)]/ cosmic main restricted

# See http://help.ubuntu.com/community/UpgradeNotes for how to upgrade to
# newer versions of the distribution.
deb http://old-releases.ubuntu.com/ubuntu/ cosmic main restricted
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic main restricted

## Major bug fix updates produced after the final release of the
## distribution.
deb http://old-releases.ubuntu.com/ubuntu/ cosmic-updates main restricted
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic-updates main restricted

## N.B. software from this repository is ENTIRELY UNSUPPORTED by the Ubuntu
## team. Also, please note that software in universe WILL NOT receive any
## review or updates from the Ubuntu security team.
deb http://old-releases.ubuntu.com/ubuntu/ cosmic universe
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic universe
deb http://old-releases.ubuntu.com/ubuntu/ cosmic-updates universe
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic-updates universe

## N.B. software from this repository is ENTIRELY UNSUPPORTED by the Ubuntu
## team, and may not be under a free licence. Please satisfy yourself as to
## your rights to use the software. Also, please note that software in
## multiverse WILL NOT receive any review or updates from the Ubuntu
## security team.
deb http://old-releases.ubuntu.com/ubuntu/ cosmic multiverse
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic multiverse
deb http://old-releases.ubuntu.com/ubuntu/ cosmic-updates multiverse
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic-updates multiverse

## N.B. software from this repository may not have been tested as
## extensively as that contained in the main release, although it includes
## newer versions of some applications which may provide useful features.
## Also, please note that software in backports WILL NOT receive any review
## or updates from the Ubuntu security team.
deb http://old-releases.ubuntu.com/ubuntu/ cosmic-backports main restricted universe multiverse
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic-backports main restricted universe multiverse

## Uncomment the following two lines to add software from Canonical's
[ Read 57 lines ]
^G Get Help      ^O Write Out    ^W Where Is    ^K Cut Text    ^J Justify    ^C Cur Pos    M-U
^X Exit          ^R Read File    ^\ Replace     ^U Uncut Text  ^T To Spell   ^ Go To Line  M-E
```

6- sudo apt-get upgrade

7- sudo ufw disable

8- sudo apt-get install openssh-server

after ssh;

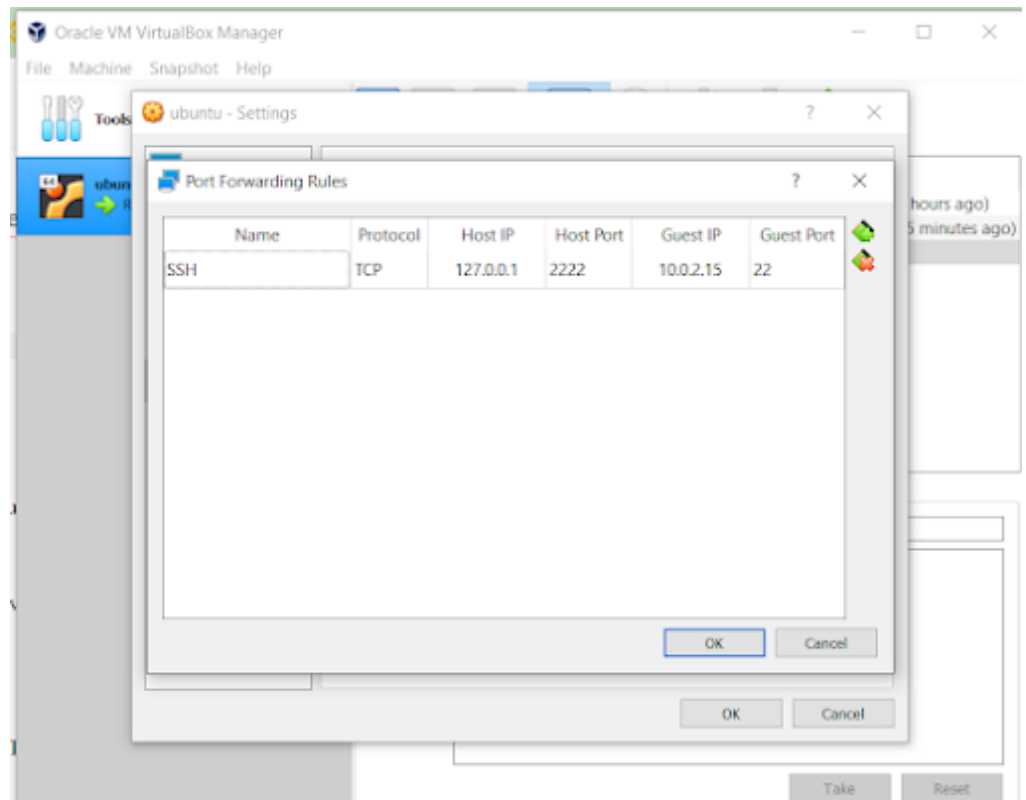
– you can use putty to connect via ssh port 22

– you can directly connect sftp via 22, i use filezilla

9- sudo reboot now

10- vbox port forwarding and putty connection via ssh

127.0.0.1 2222 10.0.2.15 22



11- Take snapshot

12- sudo apt install gcc make perl

13- sudo apt install csh

#the C-shell, needed for the install of NetWeaver to work. You can check shells cat /etc/shells

14- sudo apt search libaio

15- sudo apt install libaio1

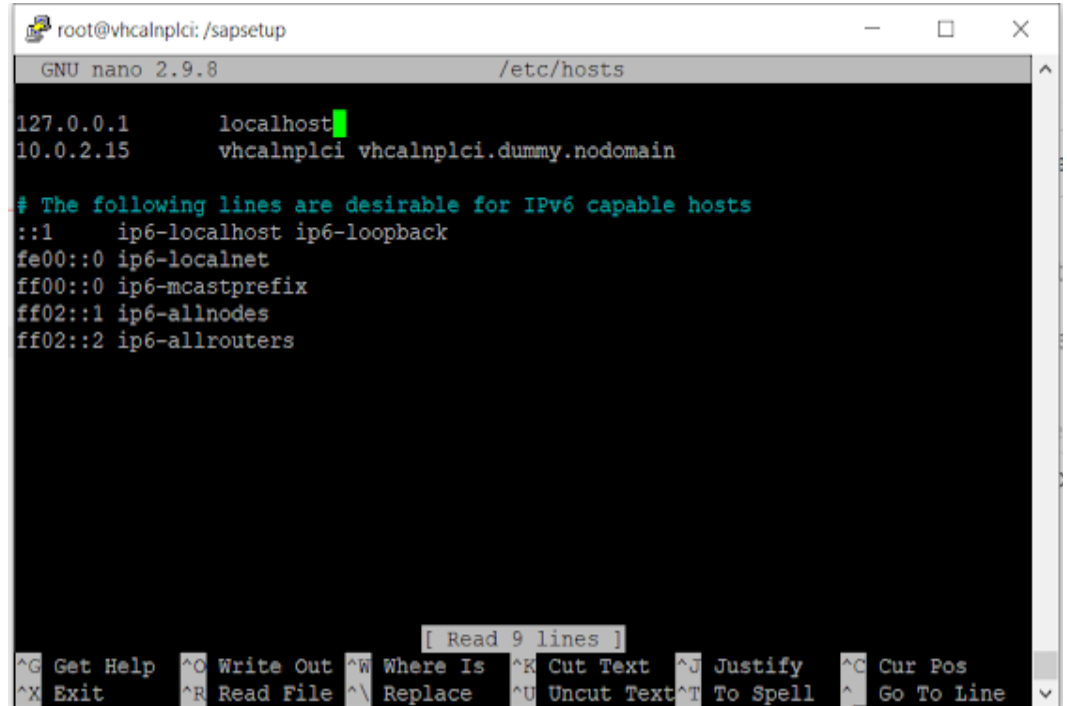
16- sudo apt install uuid

17- sudo nano /etc/hosts

```
127.0.0.1    localhost
10.0.2.15   vhcainplci vhcainplci.dummy.nodomain

# The following lines are desirable for IPv6 capable hosts
::1        ip6-localhost ip6-loopback
fe00::0    ip6-localnet
ff00::0    ip6-mcastprefix
```

```
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```



The screenshot shows a terminal window titled 'root@vhcalnplci:/sapsetup'. The terminal is running the GNU nano 2.9.8 editor on the file /etc/hosts. The content of the file is as follows:

```
127.0.0.1    localhost
10.0.2.15   vhcalnplci vhcalnplci.dummy.nodomain

# The following lines are desirable for IPv6 capable hosts
::1        ip6-localhost ip6-loopback
fe00::0    ip6-localnet
ff00::0    ip6-mcastprefix
ff02::1    ip6-allnodes
ff02::2    ip6-allrouters
```

The terminal also shows a status bar at the bottom with various keyboard shortcuts: [Read 9 lines], ^G Get Help, ^O Write Out, ^W Where Is, ^K Cut Text, ^J Justify, ^C Cur Pos, ^X Exit, ^R Read File, ^\ Replace, ^U Uncut Text, ^T To Spell, ^_ Go To Line.

18- sudo reboot now

19- sudo systemctl start uidd

to check status

- sudo systemctl status uidd
- or sudo service uidd status

20- create a link between windows host and ubuntu via shared folder

- sudo mkdir /shared
- sudo chown 777 /shared
- sudo adduser codezen vboxsf
- sudo reboot now

21- copy files

- cd /shared
- cd SAP\ Abap\ Netweaver/
- ls -all
- sudo mkdir /sapsetup
- sudo cp -f *.rar /sapsetup/

License file!!!

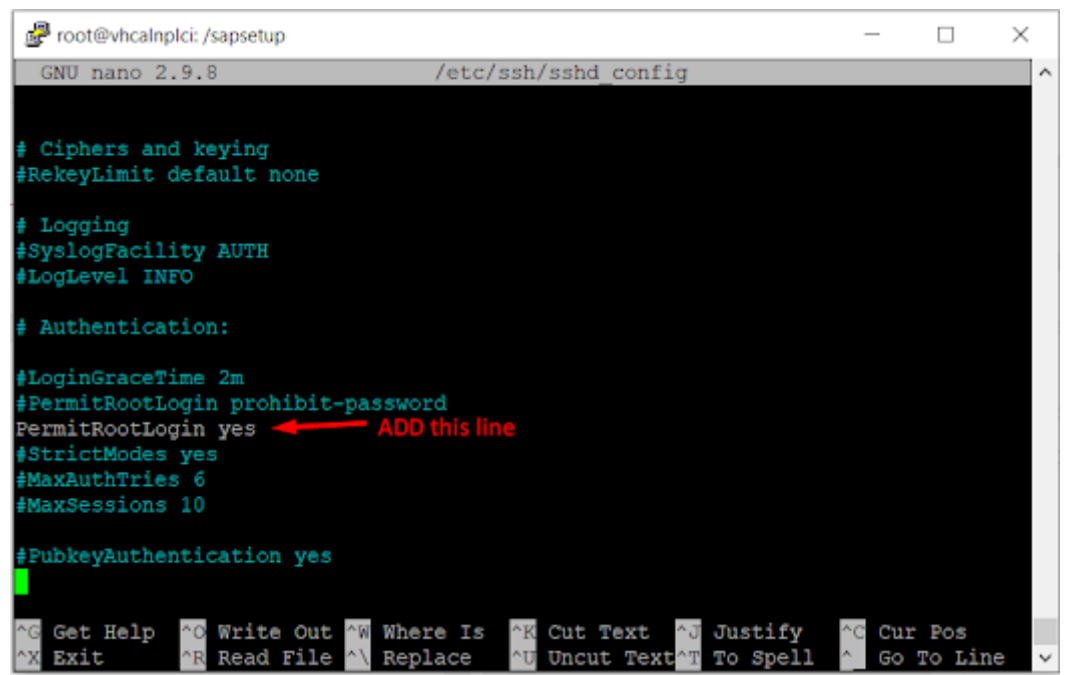
or

20- connect as root with sftp client and copy files via drag and drop

- sudo passwd root
- sudo nano /etc/ssh/sshd_config

Find the line contains "PermitRootLogin no", modify it to "PermitRootLogin yes".

- sudo service ssh restart



```
root@vhcalnplci: /sapsetup
GNU nano 2.9.8 /etc/ssh/sshd config

# Ciphers and keying
#RekeyLimit default none

# Logging
#SyslogFacility AUTH
#LogLevel INFO

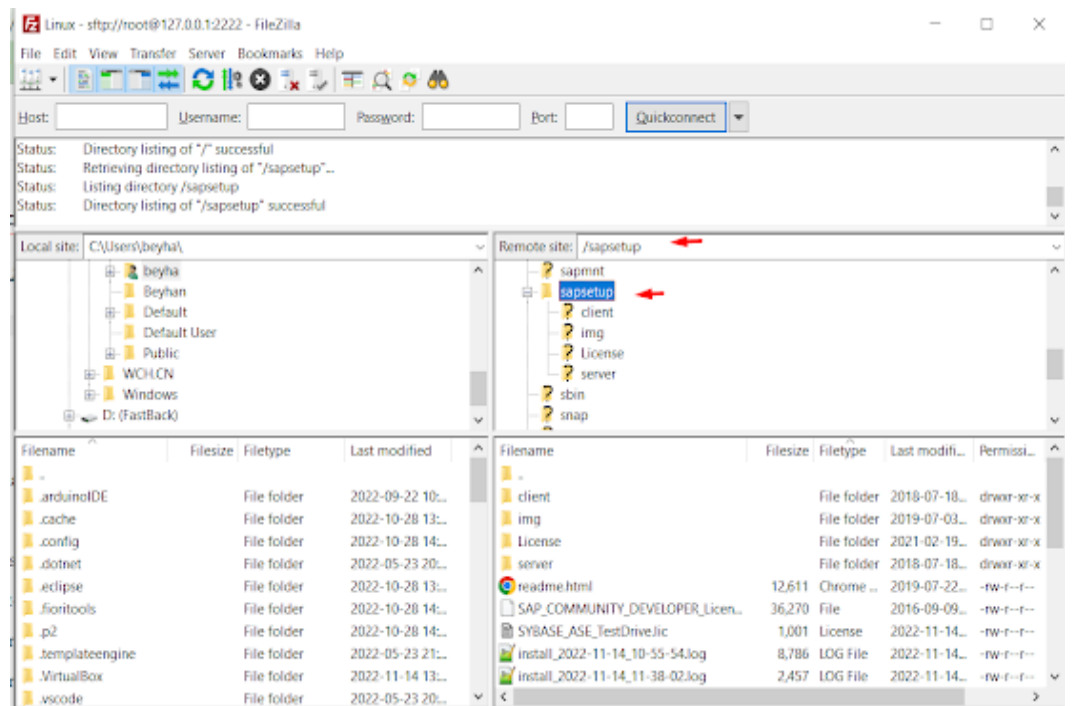
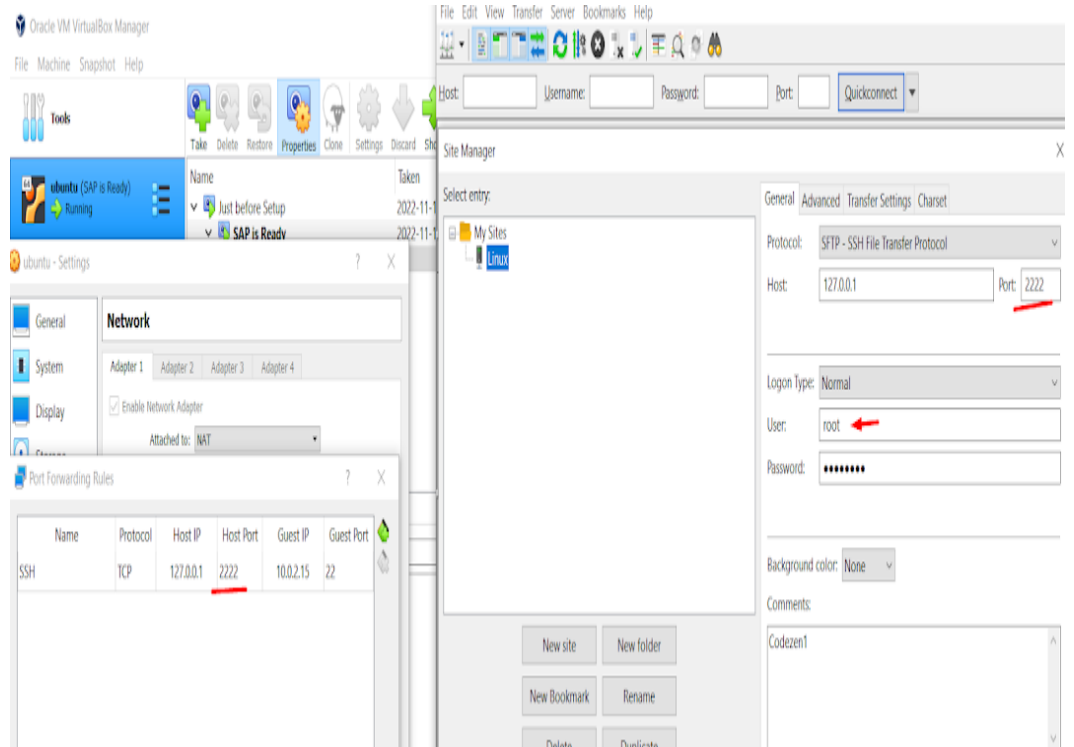
# Authentication:

#LoginGraceTime 2m
#PermitRootLogin prohibit-password
PermitRootLogin yes ← ADD this line
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10

#PubkeyAuthentication yes

^G Get Help  ^O Write Out  ^W Where Is  ^K Cut Text   ^J Justify    ^C Cur Pos
^X Exit      ^R Read File  ^\ Replace   ^U Uncut Text ^T To Spell  ^_ Go To Line
```

- sudo mkdir /sapsetup
- sudo chmod 777 /sapsetup
- filezilla site to connect via sftp 127.0.0.1 2222
- drag and drop rars to /sapsetup
- sudo chmod -R 777 /sapsetup/



22- Take a snapshot

23- sudo cd /sapsetup

24- sudo apt-get install unrar

- `sudo unrar x TD752SP04part11.rar`
- `sudo unrar x License.rar`
- `sudo cp`
`/sapsetup/License/SYBASE_ASE_TestDrive/SYBASE_ASE_TestDrive.lic`
`/sapsetup/`
- add license file .lic to same folder with install.sh

25- Installation time

- `sudo systemctl start uidd`
- `sudo -i`
- `cd /sapsetup`
- `sudo chmod 777 install.sh`
- `./install.sh`

26- Fails with Unable to generate a new password for database login 'sa' in sapinst_dev.log

<https://answers.sap.com/questions/13339864/error-during-sap-nw-752-installation.html?childToView=13344769>

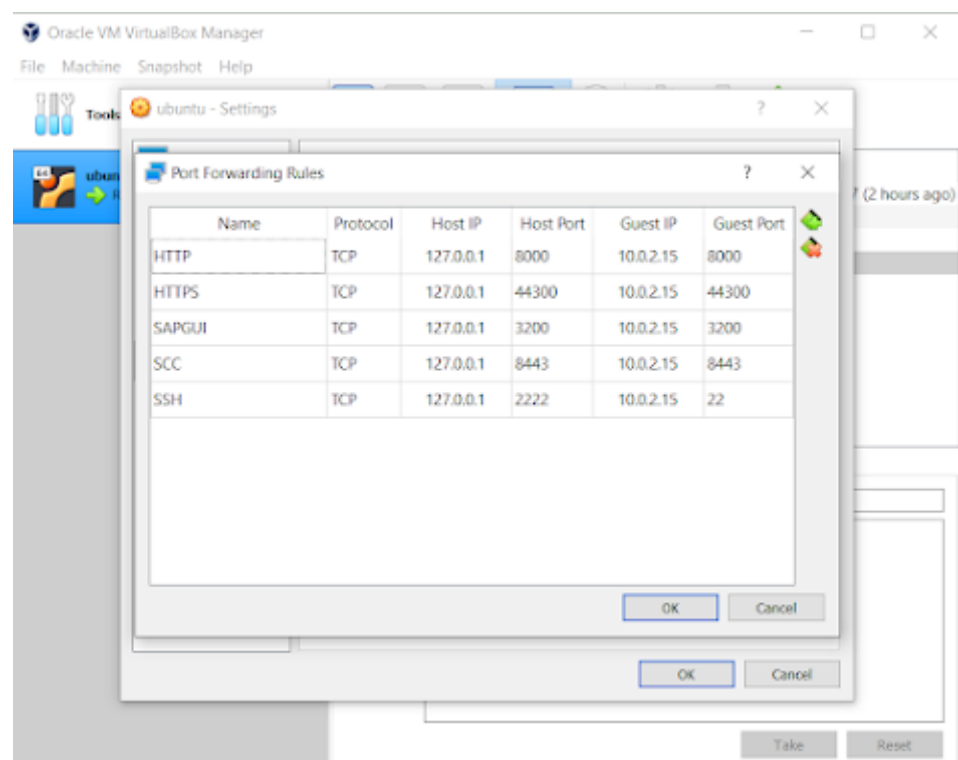
copy lic file to /sybase/NPL/SYSAM-2_0/licenses/SYBASE_ASE_TestDrive.lic

- `cp SYBASE_ASE_TestDrive.lic /sybase/NPL/SYSAM-2_0/licenses/`

27- ./install.sh

```
root@vhcalnplci: /sapsetup
startdb completed successfully
Starting Startup Agent sapstartsrv
OK
Instance Service on host vhcalnplci started
-----
starting SAP Instance ASCS01
Startup-Log is written to /home/npladm/startsap_ASCS01.log
-----
/usr/sap/NPL/ASCS01/exe/sapcontrol -prot NI_HTTP -nr 01 -function Start
Instance on host vhcalnplci started
Starting Startup Agent sapstartsrv
OK
Instance Service on host vhcalnplci started
-----
starting SAP Instance D00
Startup-Log is written to /home/npladm/startsap_D00.log
-----
/usr/sap/NPL/D00/exe/sapcontrol -prot NI_HTTP -nr 00 -function Start
Instance on host vhcalnplci started
Installation of NPL successful
```

That is it. Let's connect 😊



Description:

Application Server:

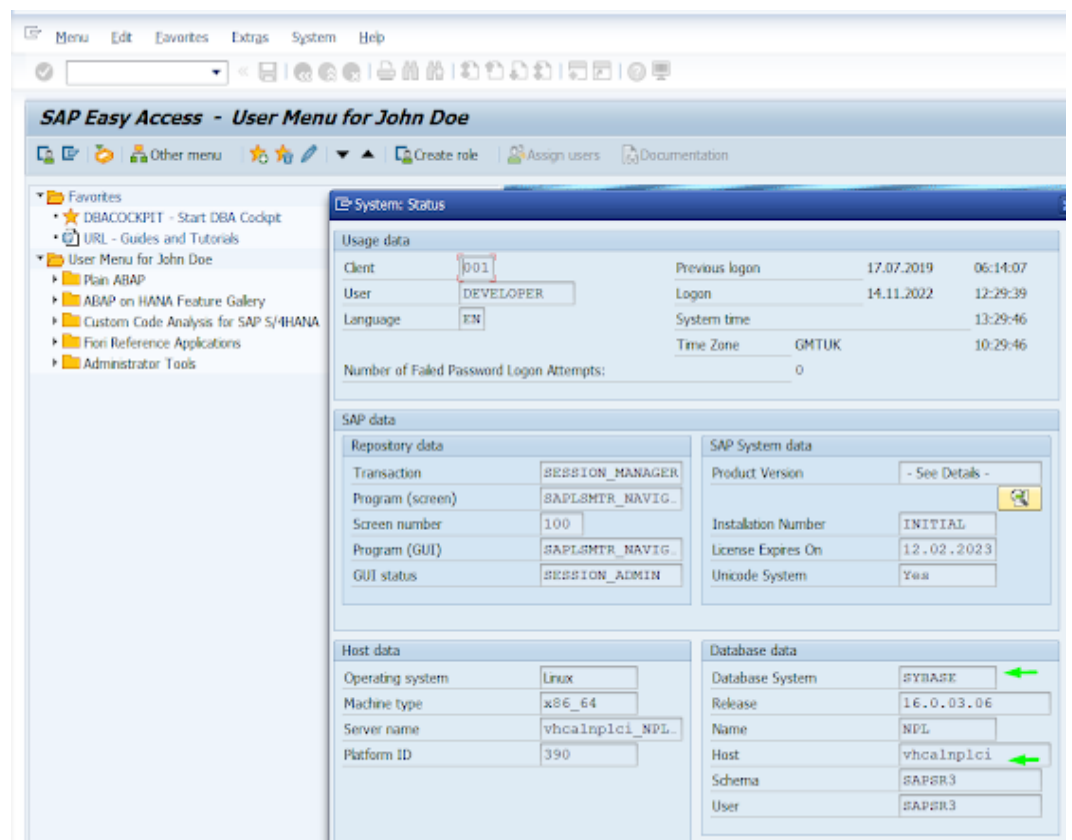
Instance Number:

System ID:

SAProuter String:

User name : DEVELOPER

Pass: Download



for developer access key,

- go to slicense tcode delete installed licences
- go to <https://go.support.sap.com/minisap/#/minisap> pake and enter hardwarekey from slicense tcode(Remote Hardware Key Tab, Active Hardware Key field value) and install downloaded licence file.

And for eclipse adt development settings please read ->

<https://blogs.sap.com/2022/11/16/eclipse-adt-sap-netweaver-as-abap-developer-edition-connection/>

To stop/start SAP

su npladm

Pass: Codezen1

stopsap ALL

startsap ALL

Related Links

Tutorial – <https://abapacademy.com/blog/how-to-install-free-sap-system/> – Best of best so far.

Just does not mention the step 26 and 27

<https://blogs.sap.com/2018/04/05/installing-sap-netweaver-developer-edition-on-an-ubuntu-desktop-vm-the-non-concise-guide/> very detailed!

<https://blogs.sap.com/2018/04/05/installing-sap-netweaver-developer-edition-on-an-ubuntu-desktop-vm-the-non-concise-guide/>

<https://blogs.sap.com/2019/04/01/part-1-installing-sap-netweaver-as-abap-developer-edition-7.52-sp01-on-virtualbox-ubuntu-16.04/>

<https://blogs.sap.com/2019/10/01/as-abap-7.52-sp04-developer-edition-concise-installation-guide/> – Passwords and some technical details

<https://answers.sap.com/questions/13008312/sap-netweaver-752-sp-abort-execution-because-of-st.html>

<https://blogs.sap.com/2016/11/03/linux-for-newbies-installing-opensuse-on-oracle-virtualbox/>

<https://answers.sap.com/questions/13339864/error-during-sap-nw-752-installation.html?childToView=13344769>

<https://abapacademy.com/blog/sap-trial-license-expired-how-to-prolong-sap-trial-license/>

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22 Comments

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dylan drummond

November 15, 2022 at 9:02 am

Nice blog there, well done.

If you want to use more recent versions of Ubuntu and/or openSUSE Leap, then the installation will also succeed with those versions, if you use the advice here (warning: self-promotion alert):

<https://blogs.sap.com/2021/06/07/adjusting-installer-script-for-sap-netweaver-dev-edition-for-distros-with-kernel-version-5.4-or-higher/>

(<- That blog assumes that you are reasonably competent in installing Dev Edition; so if you are a newbie then maybe best to try first with older versions of the Linux distros, as is well-described in Beyhan's blog above).

Like 3 | Share



Beyhan MEYRALI | Blog Post Author

November 15, 2022 at 10:10 am

😊 Thanks Dylan.

Like 0 | Share



Ali Jibran

January 29, 2023 at 7:10 am

[Beyhan MEYRALI](#)

Thanks for the awesome post.

I was able to install the trial in 1 go, thanks to your clear instructions.

Only thing, which must be mentioned , is that VM should have 80-100 GB space (considering rar, unpack & installation requirements , i luckily added 80GB, and it came down to 72 GB in total)

There are 2 things, which i am facing bit problem .

Fiori is not showing up (Following your port forwarding setup) and Screen Painter is also not working in SE80. Is it by design?

Like 0 | Share



Beyhan MEYRALI | Blog Post Author

January 30, 2023 at 7:36 am

Hi Ali,

I don't have answer for those 2 questions.

I have only tested it with Vue app not with Fiori app. And also did not try screen painter neither.

Like 0 | Share



Ali Jibrán

January 31, 2023 at 3:59 am

Thanks for reply.

i was able to activate screen painter by forwarding RFC port 3300.

Still working on Fiori, and will update it here for others as well.

Like 1 | Share



Beyhan MEYRALI | Blog Post Author

January 31, 2023 at 6:49 am

Thanks for sharing Ali.

Like 0 | Share



Daniel Aguilar

January 31, 2023 at 10:59 pm

Thanks for this post I tried to install a lot of times and now it's working!!! Thanks!

Like 1 | Share



FIRAT ASAN

February 5, 2023 at 12:36 pm

Thank you. Great and clean blog. Nice, simple and understandable explanation. It is very useful for you to explain the steps in detail in the video. I have done it. However, the system is running very slow. I think it's from the virtual machine settings.

Like 1 | Share



Beyhan MEYRALI | Blog Post Author

February 5, 2023 at 12:44 pm

Hi Firat,

it demands some hardware indeed. I have nvme disk, i7 cpu and 32gb ram. It worked fine on my machine.

Like 0 | Share



Luiz Henrique Castanha

February 11, 2023 at 10:36 pm

Marvelous tutorial!

Highly detailed. Well done!

Only thing is the virtual box as well as the SAP server was extremely slow.

O solved it after making some changes in the virtual box settings based on this post:

[FIX: VirtualBox Running Very Slow in Windows 10/11. \(Solved\) - wintips.org - Windows Tips & How-tos](#)

Like 1 | Share



Beyhan MEYRALI | Blog Post Author

February 13, 2023 at 7:43 am

Thanks a lot. Happy to see more people are benefiting for blog 😊

Cheers

Like 0 | Share



Ranjit Lal Vallabhaneni

February 22, 2023 at 2:04 pm

Hi Beyhan Meyrali ,

Excellent blog.

I was able to install it in one go following your blog and the video where you have explained in detail all the required steps and also resolving the issues caused during installation.

Very detailed one.

Eagerly waiting for more blogs from you.

Once again Thank you for the nice blog.

Regards

Ranjit V

Like 2 | Share



Beyhan MEYRALI | Blog Post Author

March 3, 2023 at 10:34 am

Thanks Ranjit.

Regards

Like 0 | Share



Peter Strauss

March 13, 2023 at 3:39 pm

Great blog. Helped immensely

Like 0 | Share



Beyhan MEYRALI | Blog Post Author

March 14, 2023 at 6:20 am

Hi Peter,

Happy to read it is helpful.

Thanks for commenting.

Like 0 | Share



sap Basis

March 14, 2023 at 11:49 am

It seems to be next to impossible to upgrade from 18.10. I'm happy to keep using netweaver on Ubuntu 18.10 but I was interested to see what would happen on the latest version. I destroyed my installation trying to upgrade, but thanks to the snapshot it wasn't a problem

I might try again on Ubuntu 20.04

Like 0 | Share



Beyhan MEYRALI | Blog Post Author

March 15, 2023 at 7:04 am

Hi Peter 😊

It is 18.10 because of kernel version.

You can read the part -> Why Old version of Ubuntu? ->

<https://blogs.sap.com/2021/06/07/adjusting-installer-script-for-sap-netweaver->

Like 0 | Share



sap Basis

March 22, 2023 at 12:00 am

I managed to get everything working on Ubuntu 22.04 following your guide as well as the extra steps to edit the install.sh script.

The only problem I had was at step 24 of your guide. For some reason it's necessary to copy the Sybase ASE license back into the expanded install directory:

```
sudo cp /SAPNWINST/SYBASE_ASE_TestDrive.lic /SAPNWINST/serv
```

Where /SAPNWINST/ is the install directory

Also, after launching the install script the license is displayed, but there doesn't seem to be a way to scroll down. If you use Ctrl+C to escape, then there is a prompt to accept the license and it's possible to proceed from there.

Like 0 | Share



carlos mario lopez rodriguez

April 17, 2023 at 4:30 pm

Hello Beyhan Meyrali,

Excellent blog and video.

I wanted to download SAP NetWeaver AS ABAP Developer Edition 7.52 SP04. In fact, there are 12 files to download, but when I started to download the files, I received a message saying:

"Your request for information is being reviewed. Once approved, you'll receive an e-mail with additional instructions."

Note: I have sent an email to SCNContent@sap.com but have not received a response.

Could you please share the 11 files from another link or drive for download?

Thank you.

Regards.

Like 0 | Share



Beyhan MEYRALI | Blog Post Author

April 18, 2023 at 11:42 am

Hi Carlos,

Thanks for commenting. You need to download via SAP page.

Regards

Like 0 | Share



amani Abushaala

November 13, 2023 at 7:22 am

tanks alot for good guide

Like 0 | Share



Moubarak Lawani

November 15, 2023 at 1:44 pm

I'am having problem with the installation; some issues from step 12 and 13 via PUTTY.
after the command "sudo apt install gcc make perl" I'm getting the following output:

```
0 packages can be updated.
0 updates are security updates.

Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife

New release '20.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
```

and running the step 13 command (sudo apt install csh) gives the following result:

E: Unable to locate package csh

did someone have the same issue?

thanks

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