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November 16, 2022 | 3 minute read

Eclipse ADT & SAP NetWeaver AS ABAP Developer Edition Connection

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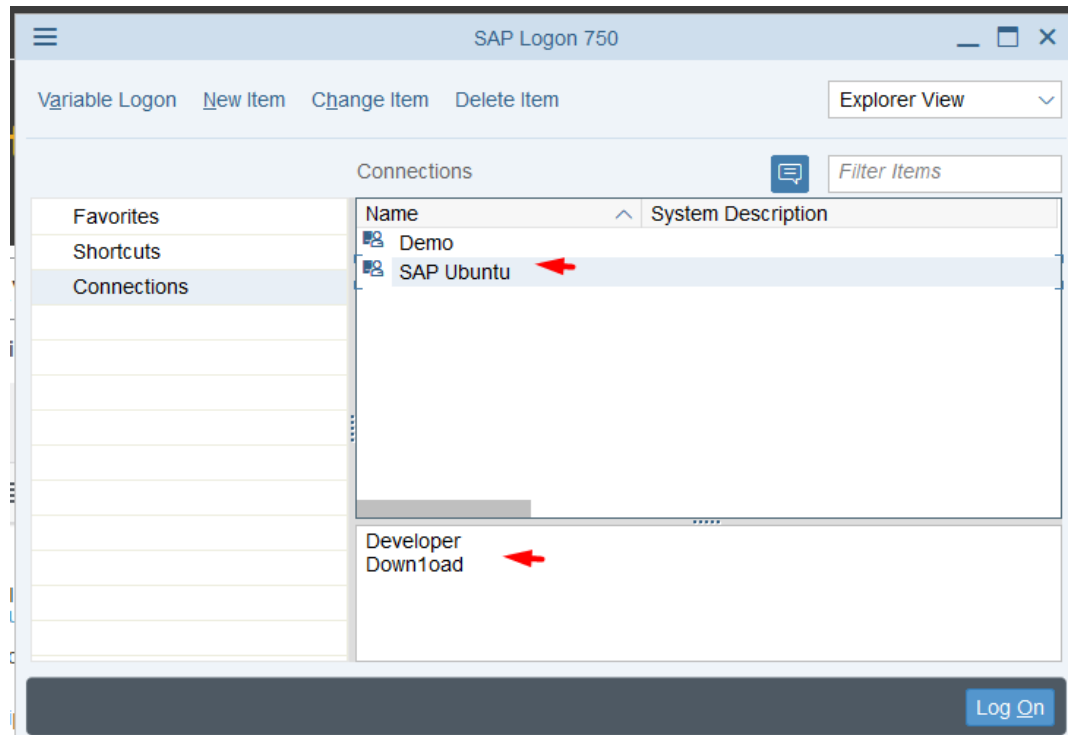
Hi,

In this post, I would like to show how to connect Eclipse ADT to [SAP NetWeaver AS ABAP Developer Edition 7.52 SP04 on Ubuntu](#), which is running on Oracle Virtual box.

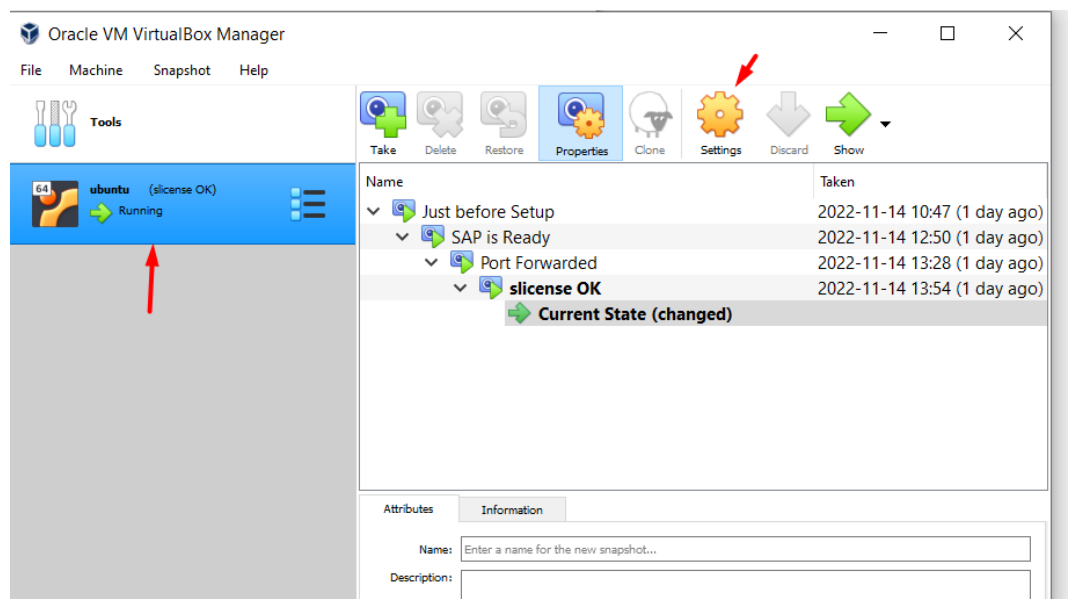
For Eclipse ADT installation you [check that link](#). And for Abap Developer Edition installation have a look at [that blog post](#).

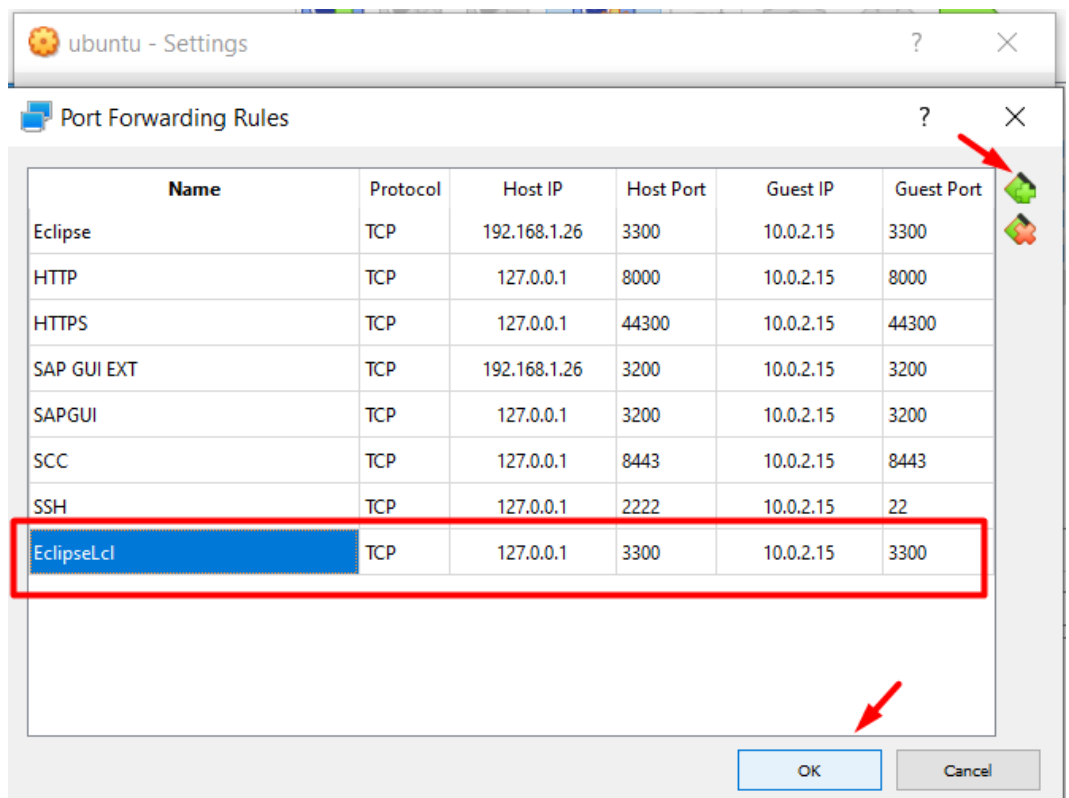
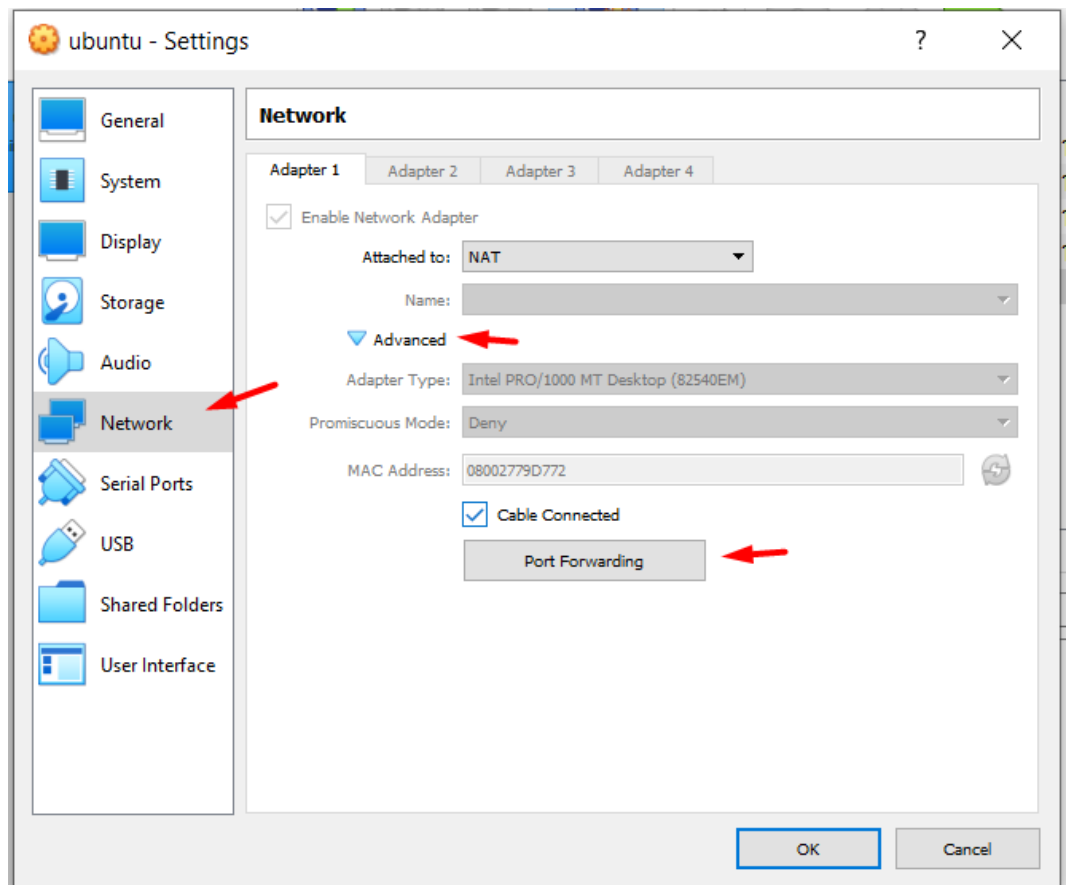
With steps below you can connect to SAP from Eclipse;

Step 1 – Check your SAP GUI connection



Step 2 – Virtual Box 3300 port forwarding for local ip address 127.0.0.1

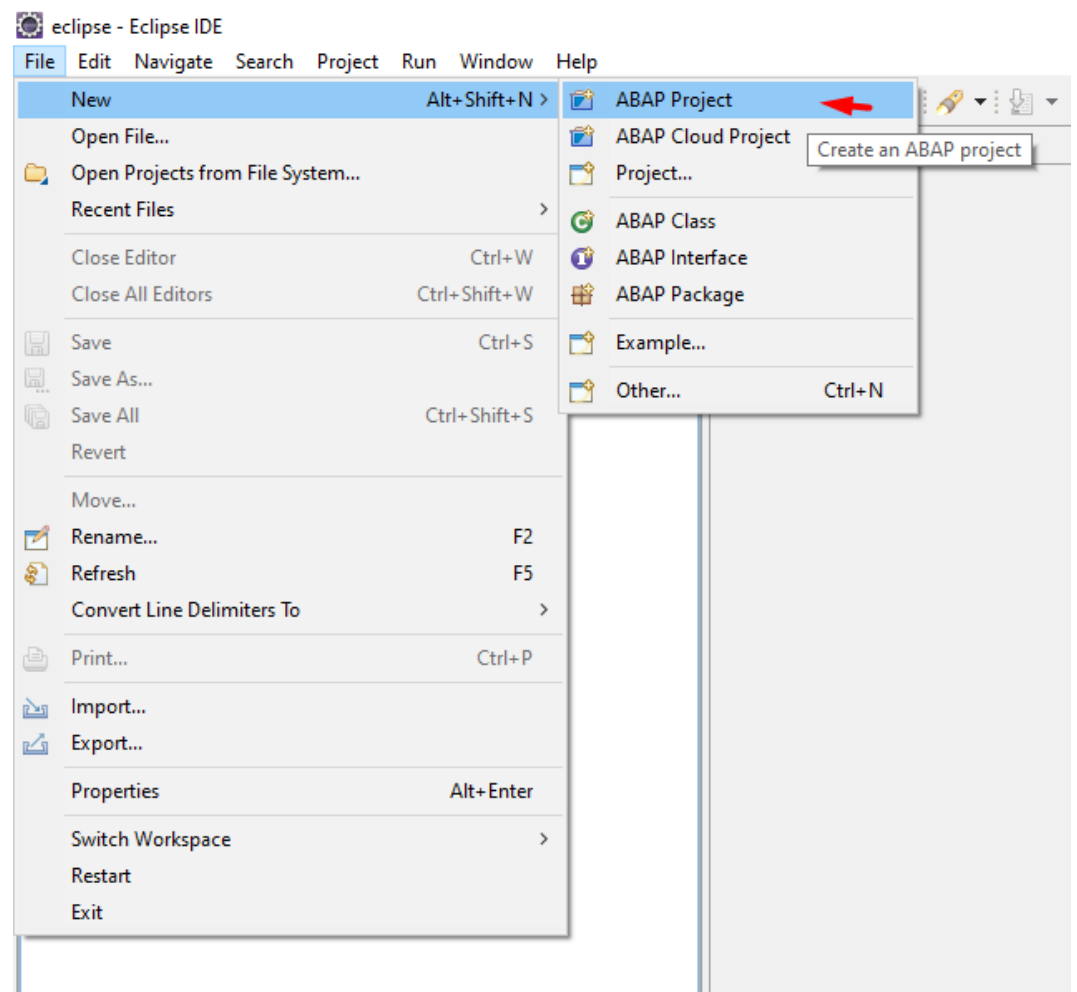




Note: First line Eclipse entry is to connect from any other machine in my network to Ubuntu/Sap. 192.168.1.26 is Windows host ip given by Adsl router. Therefore any machine which is connected to same router can access SAP with that simple port forwarding.

Last entry **EclipseLcl** is for connection from same host, local connection, to Ubuntu/Sap.

Step 3 – Connecting to NPL from Eclipse.






New ABAP Project

— □ ×

Connection Settings

System connection configuration for the new ABAP project



Connection Parameters

System ID: *

NPL

Connection Type:

Custom Application Server

Message Server: *

Group: *

Message Server Port:

Application Server: *

127.0.0.1

Instance Number: *

00

RFC Gateway Server:

RFC Gateway Server Port:

SAProuter String:

Secure Network Settings

☐ Activate Secure Network Communication (SNC)

SNC Level:

SNC Name: *

Single Sign-On (SSO):

Disabled

?

< Back

Next >

Finish

Cancel

Logon to System



System ID: NPL

Client: * 001

User: * DEVELOPER

Password: * Download

Language: * EN

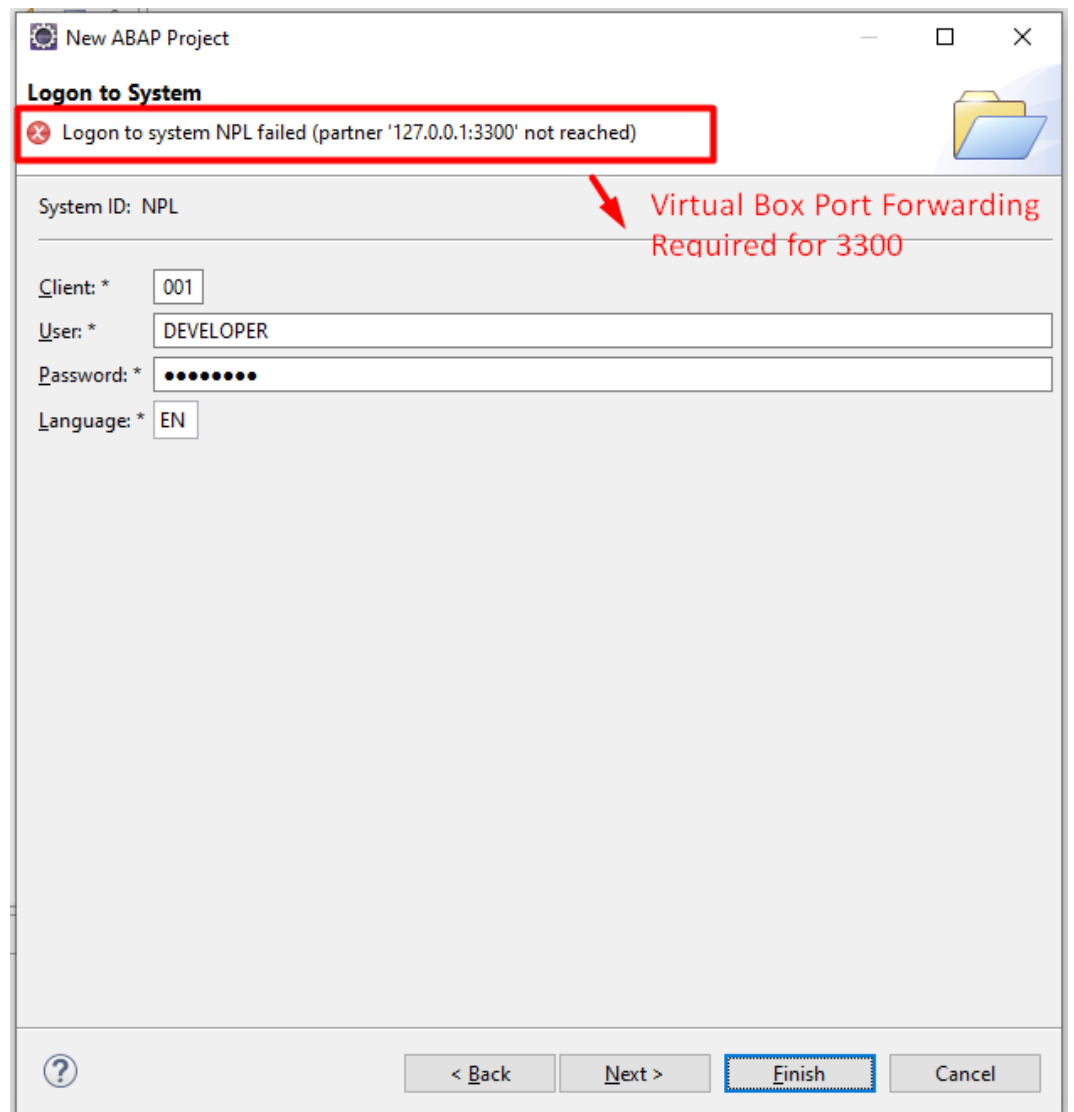


< Back

Next >

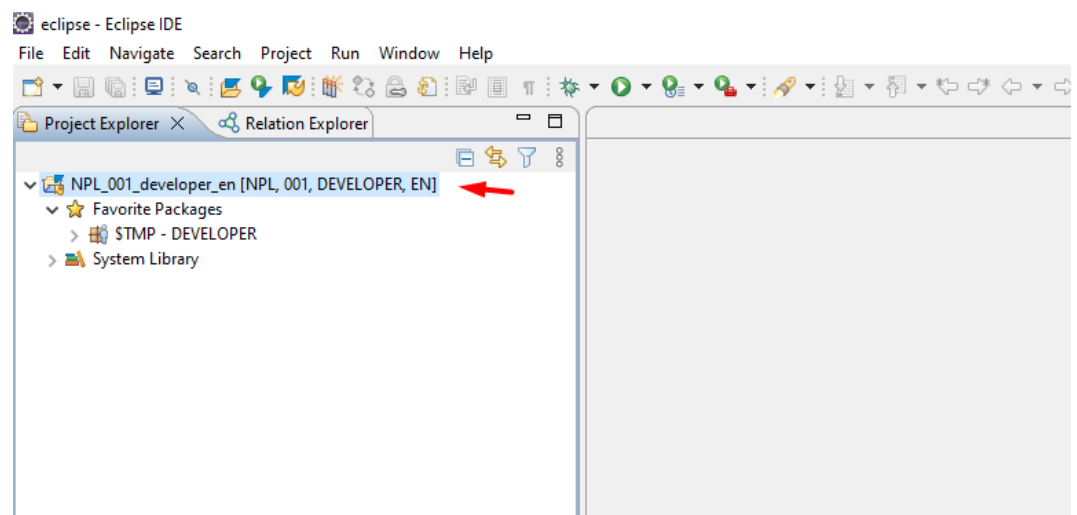
Finish

Cancel



After clicking Finish, If you see that error, that means Step 2, port forwarding is not working. That might be because of wrong ip address or UFW is not disabled on Ubuntu.

Otherwise you should see following screen.

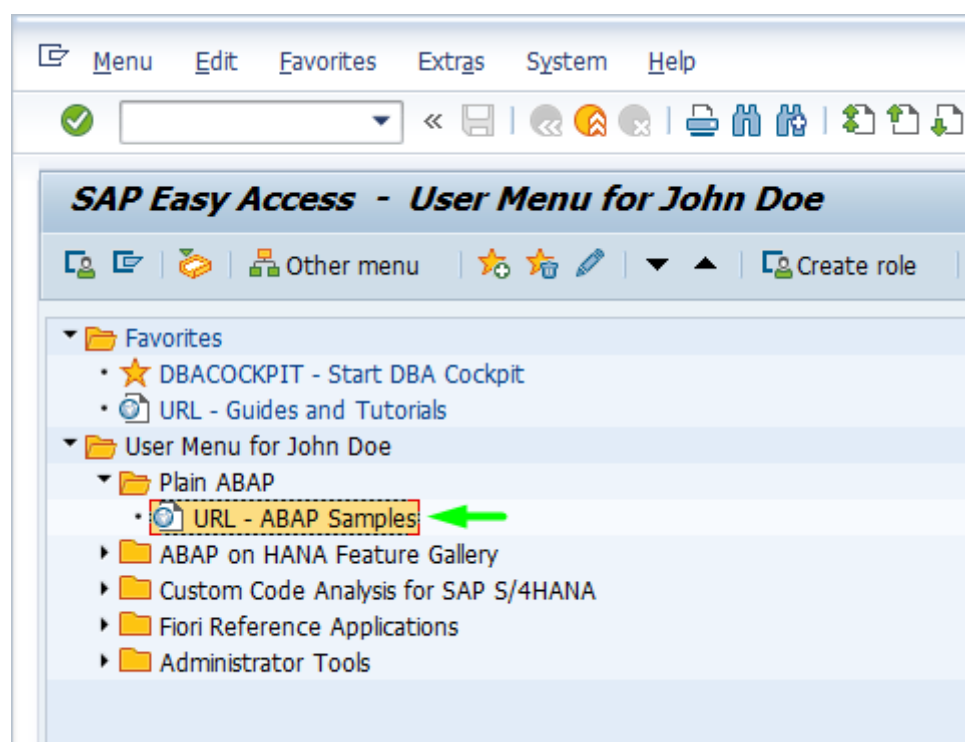


That is all. Now you can start working on SAP dev edition with eclipse.

If you will be doing RAP development, you will need to access SAP web server and that will require you to add SAP Ubuntu's ip and computer name to windows **C:\Windows\System32\drivers\etc\hosts** file or you need to change dns name to ip of 127.0.0.1. And don't forget to do required port forwardings.

Let's see that with an example.

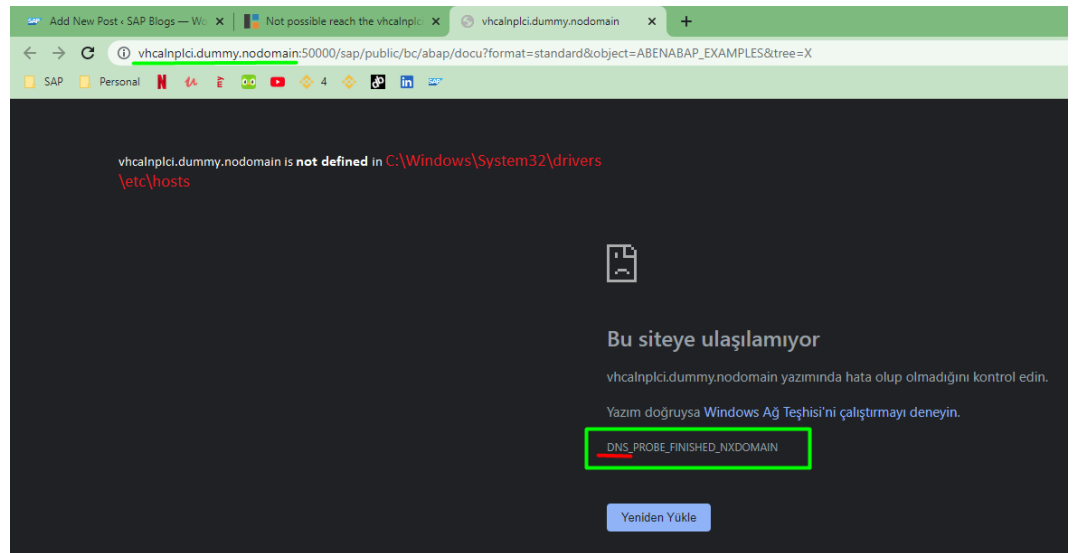
if you try to open Plain Abap examples from SAP GUI,



Tries to open,

http://vhcalnplci.dummy.nodomain:50000/sap/public/bc/abap/docu?format=standard&object=ABENABAP_EXAMPLES&tree=X

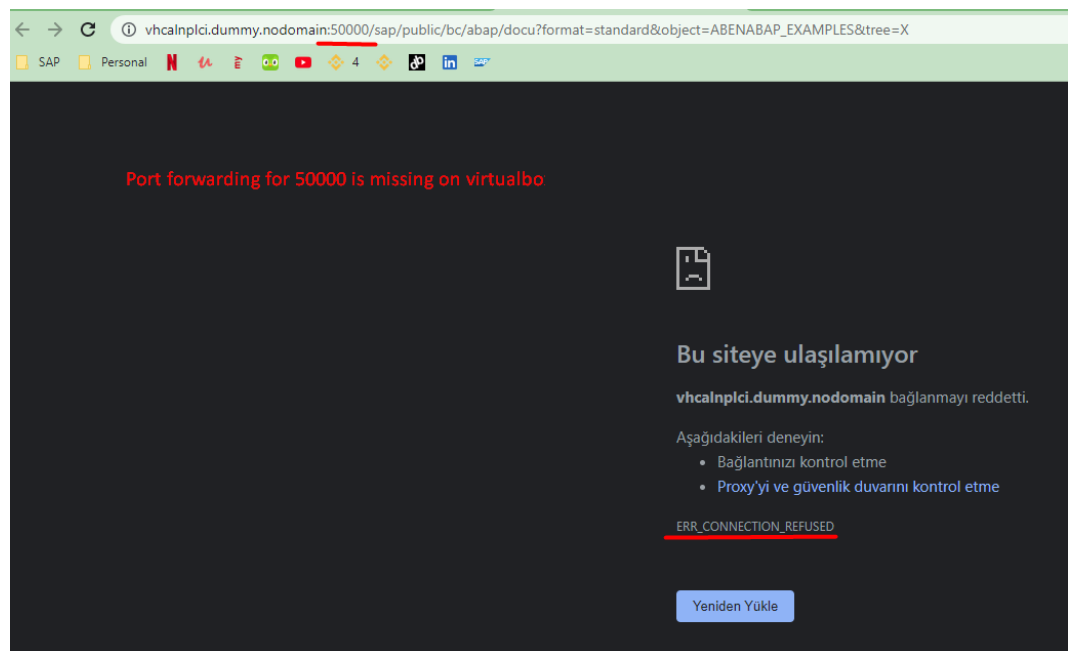
But vhcalnplci.dummy.nodomain means nothing to Windows, it does not know how to solve that name to ip address. Therefore we get an DNS error.



After adding that exact name and ip to C:\Windows\System32\drivers\etc\hosts

```
127.0.0.1 vhcalnplci.dummy.nodomain vhcalnplci
```

Try again, and that time we get port forwarding error. This time we don't get DNS error.



To solve that we need to do port forwarding on Virtualbox. Please check step2 as reference to add 50000 port.

Name	Protocol	Host IP	Host Port	Guest IP	Guest Port
Eclipse	TCP	192.168.1.26	3300	10.0.2.15	3300
EclipseLcl	TCP	127.0.0.1	3300	10.0.2.15	3300
HTTP	TCP	127.0.0.1	8000	10.0.2.15	8000
HTTPS	TCP	127.0.0.1	44300	10.0.2.15	44300
SAP GUI EXT	TCP	192.168.1.26	3200	10.0.2.15	3200
SAPGUI	TCP	127.0.0.1	3200	10.0.2.15	3200
SCC	TCP	127.0.0.1	8443	10.0.2.15	8443
SSH	TCP	127.0.0.1	2222	10.0.2.15	22
Web50000	TCP	127.0.0.1	50000	10.0.2.15	50000

OK Cancel

Try to open url again and it will work just fine.

Browser address bar: vhcalnplci.dummy.nodomain:50000/sap/public/bc/abap/docu?format=standard&object=ABENABAP_EXAMPLES&tree=X

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ABAP Examples

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A

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I hope that becomes a good reference for you. In same way, you can solve DNS name and port forwarding issues.

Thanks for reading.

[Related links](#)

Abap Developer Edition Installation with Video Tutorial ->

<https://blogs.sap.com/2022/11/14/sap-netweaver-as-abap-developer-edition-installation-pitfalls/>

Eclipse ADT Installation -> <https://tools.hana.ondemand.com/#abap>

Abap Academy -> <https://abapacademy.com/blog/not-possible-reach-the-vhcalnplci-dummy-nodomain-or-vhcalnplci8000/>

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