

Install and Setup GUI on OCI Linux VM with VNC Server

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First thing is that you connect to your OCI VM using Putty.

Next become ROOT using SUDO.

Using Yum, install "Server With GUI" with the command, # yum group install "Server with GUI". Do note that this will probably a big download (I got about 2GB of the packages prompted).

Wait for the download and installations to finish.

Check that now you have the GUI option installed.



```
root@oci-cli:/home/opc
[root@oci-cli opc] # yum group list
Loaded plugins: langpacks, ulninfo
Installed Environment Groups:
  Server with GUI
Available Environment Groups:
  Minimal Install
   Infrastructure Server
   File and Print Server
  Basic Web Server
   Virtualization Host
Available Groups:
  Compatibility Libraries
   Console Internet Tools
  Development Tools
  Graphical Administration Tools
   Legacy UNIX Compatibility
   Scientific Support
   Security Tools
   Smart Card Support
   System Administration Tools
  System Management
[root@oci-cli opc]#
```

So now we shall install VNC.

Now, as OPC user, we shall set up password for VNC Server.

```
poc@oci-cli:~

[opc@oci-cli ~]$ vncpasswd
Password:
Verify:
Would you like to enter a view-only password (y/n)? n
A view-only password is not used
[opc@oci-cli ~]$
```

As ROOT user(use SUDO), copy the VNC service template file from /lib/systemd to /etc/systemd and include \:1.service in the destination filename. Also, we shall see the contents of the file as we are going to modify it.

```
Proot@oci-cli:/home/opc
 coot@oci-cli opc] # cat /etc/systemd/system/vncserver@\:1.service
 The vncserver service unit file
 Ouick HowTo:
 1. Copy this file to /etc/systemd/system/vncserver@.service
 2. Replace <USER> with the actual user name and edit vncserver
 parameters in the wrapper script located in /usr/bin/vncserver_wrapper 3. Run `systemctl daemon-reload` 4. Run `systemctl enable vncserver@:<display>.service`
 DO NOT RUN THIS SERVICE if your local area network is
 untrusted! For a secure way of using VNC, you should
 limit connections to the local host and then tunnel from
 the machine you want to view VNC on (host A) to the machine
 whose VNC output you want to view (host B)
 [user@hostA ~]$ ssh -v -C -L 590N:localhost:590M hostB
 this will open a connection on port 590N of your hostA to hostB's port 590M
 (in fact, it ssh-connects to hostB and then connects to localhost (on hostB).
 See the ssh man page for details on port forwarding)
 You can then point a VNC client on hostA at vncdisplay N of localhost and with
 the help of ssh, you end up seeing what hostB makes available on port 590M
 Use "-nolisten tcp" to prevent X connections to your VNC server via TCP.
 Use "-localhost" to prevent remote VNC clients connecting except when doing so through a secure tunnel. See the "-via" option in the `man vncviewer' manual page.
```

Now, in the section ExecStart, in the <USER>, replace it with OPC user. Use VI or whatever your favourite editor is.

Reload the configuration file and enable the service of VNC.

Start the VNC service and confirm that it's running.



Now, we shall need the SSH tunnel to be configured. Important bit to remember is that in setting it up, you will need to use the Private IP address of your VM. It should appear like this.

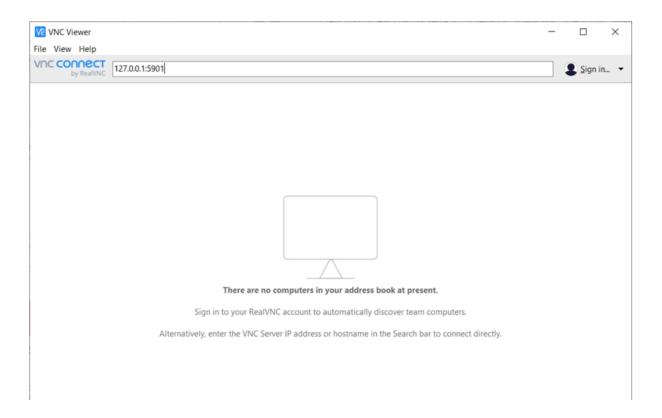
🥵 PuTTY Configuration					?	\times
Category:						
- Keyboard - Bell - Features - Window - Appearance - Behaviour - Translation - Selection - Colours - Connection - Data - Proxy - Telnet - Rlogin - SSH - Kex - Host keys - Cipher - Auth - TTY		Port forwarding Local ports a		rom other -2 only)		
-X11 -Tunnels -Bugs -More bugs	~ Help		Open		Cance	al .

Once you have entered the Public IP address of your VM, start the Putty session to enable the tunnel.

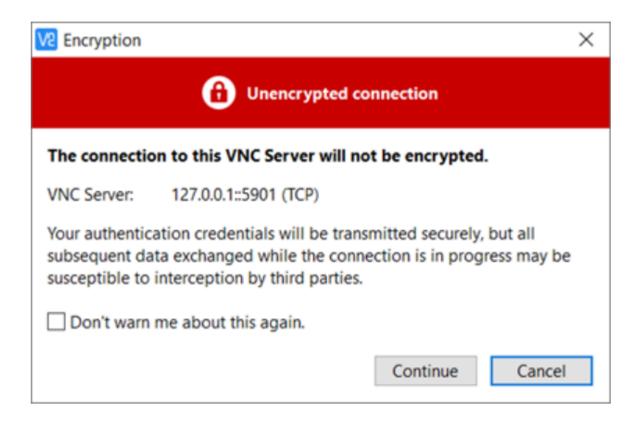
Now using your favorite tool, connect using 127.0.0.1 with the port 5901. I am using VNC Viewer here.

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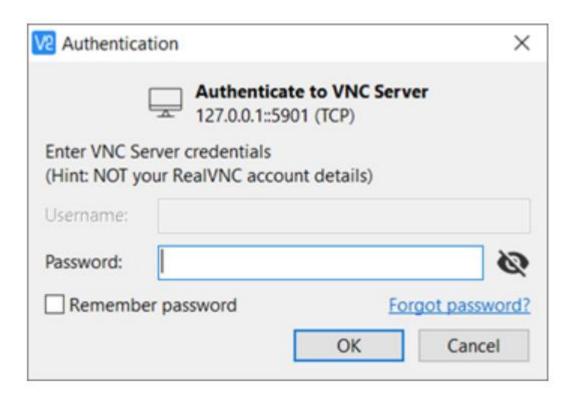
ORACLE



You will be prompted to confirm your connection. Click Continue.



After pressing Continue, you will be prompted to provide the password that you configured for VNC. Enter the correct password.

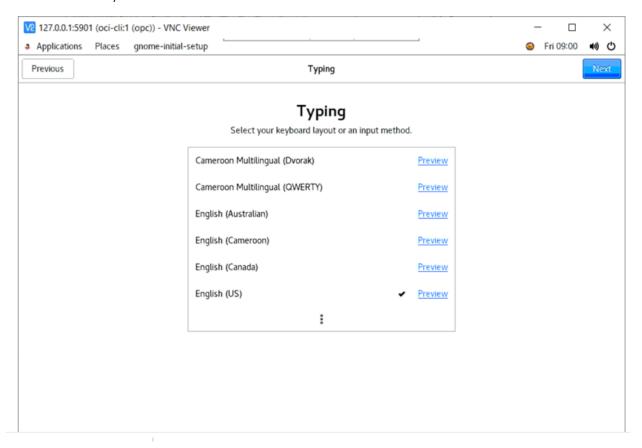


Once you provide the password, you are asked to choose your preferred language.



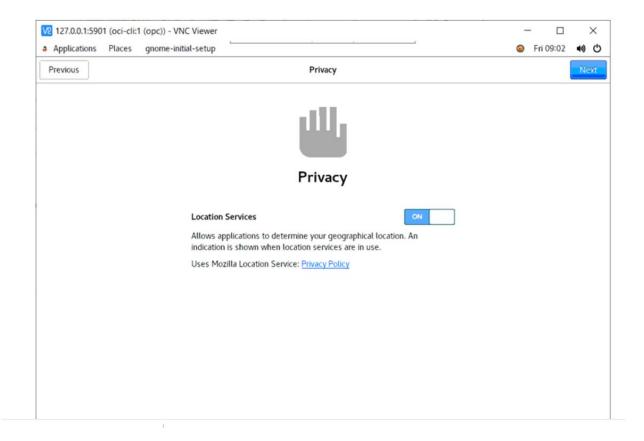
English is by default selected. Click Next if you want to choose that or change your preference and then click Next.

Next is to choose Keyboard.

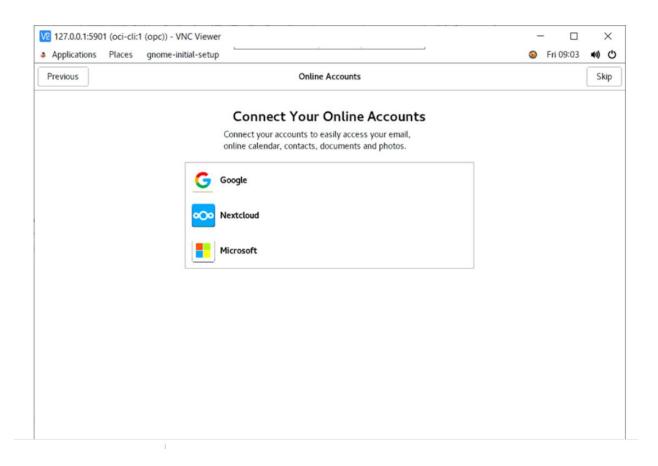


Choose your preference and click Next.

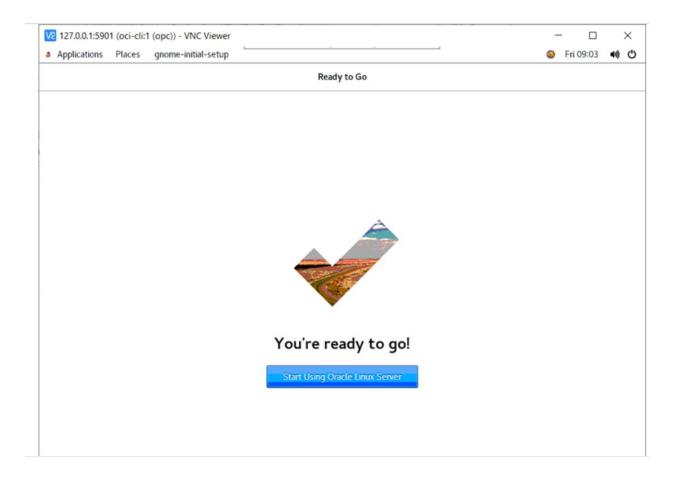
Next is Privacy setting for Location service. I am going to keep it on. You can choose what you want to do.



Next you are prompted to choose your online accounts. I skipped setting any of them by clicking Skip.



Finally, you are told you are good to go.



Click Start using Oracle Linux Server.



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