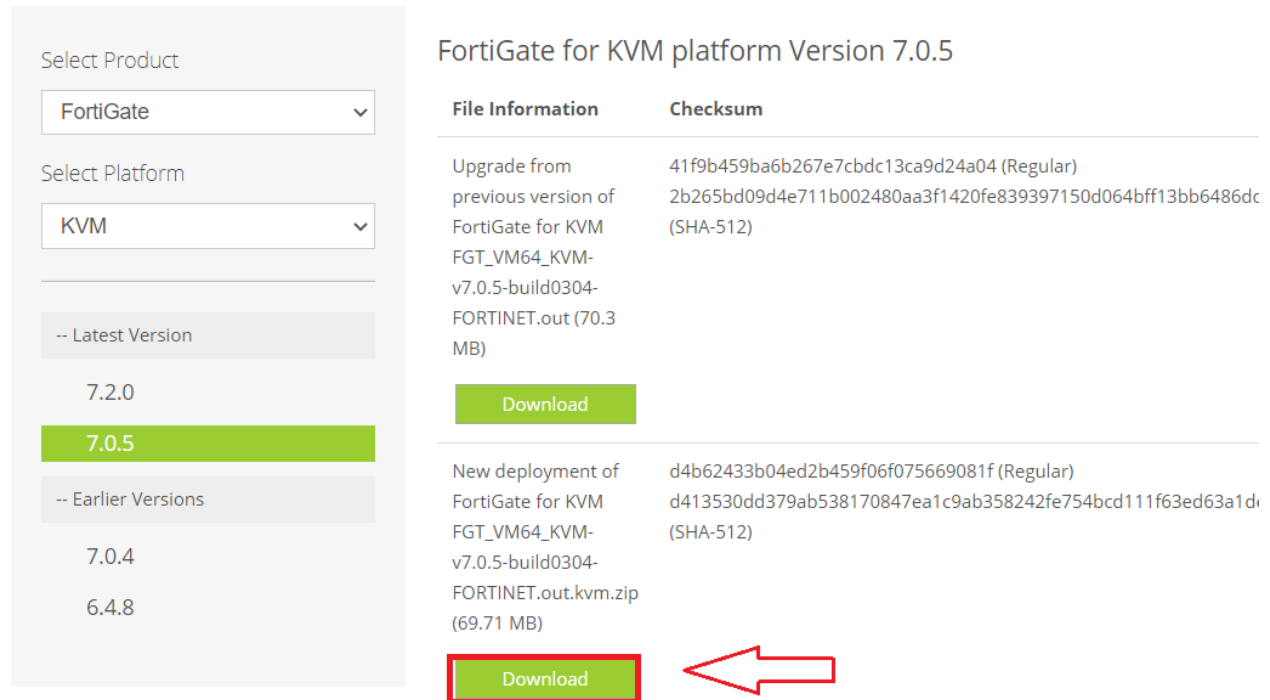


Upload FortiGate Firewall in EVE-NG:

Register and Download the FortiGate image at the following link.

<https://support.fortinet.com/Download/VMImages.aspx>

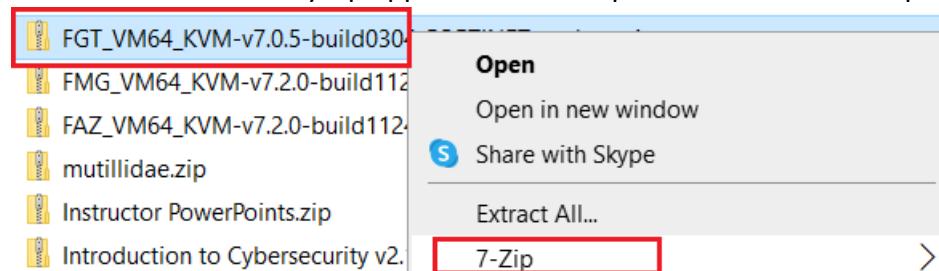
Once at the site, Click on **Download > VM Images**. Select Product: **FortiGate**. Select Platform: **KVM**. Downloading the Latest Version (**7.0.5**). Be sure to click **Download** under the **New deployment of FortiGate for KVM FGT_VM64-_KVM-v7.0.5-build0304-FORTINET.out.kvm.zip (69.71 MB)** if this is a new installation.



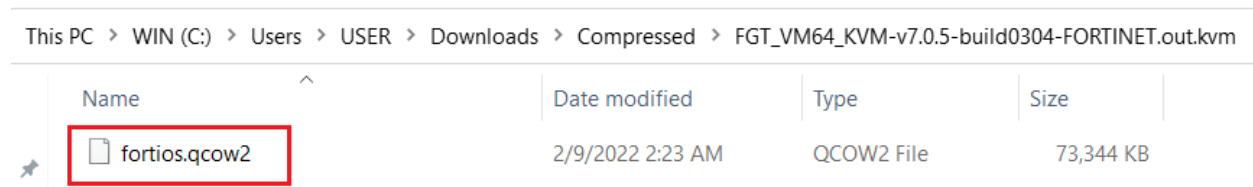
The screenshot shows the FortiGate download interface. On the left, there are two dropdown menus: 'Select Product' with 'FortiGate' selected and 'Select Platform' with 'KVM' selected. Below these are buttons for '-- Latest Version', '7.2.0', '7.0.5' (highlighted in green), and '-- Earlier Versions'. Under '-- Earlier Versions', '7.0.4' and '6.4.8' are listed. On the right, the title is 'FortiGate for KVM platform Version 7.0.5'. Below this is a table with two columns: 'File Information' and 'Checksum'. The first row is for an upgrade from a previous version, with a 'Download' button. The second row is for a new deployment of FortiGate for KVM, with a 'Download' button highlighted in red and a red arrow pointing to it from the right.

File Information	Checksum
Upgrade from previous version of FortiGate for KVM FGT_VM64_KVM-v7.0.5-build0304-FORTINET.out (70.3 MB)	41f9b459ba6b267e7cbdc13ca9d24a04 (Regular) 2b265bd09d4e711b002480aa3f1420fe839397150d064bfff13bb6486dc (SHA-512)
New deployment of FortiGate for KVM FGT_VM64_KVM-v7.0.5-build0304-FORTINET.out.kvm.zip (69.71 MB)	d4b62433b04ed2b459f06f075669081f (Regular) d413530dd379ab538170847ea1c9ab358242fe754bcd111f63ed63a1d (SHA-512)

After download use any zip application to unzip it here I use free 7-Zip software.



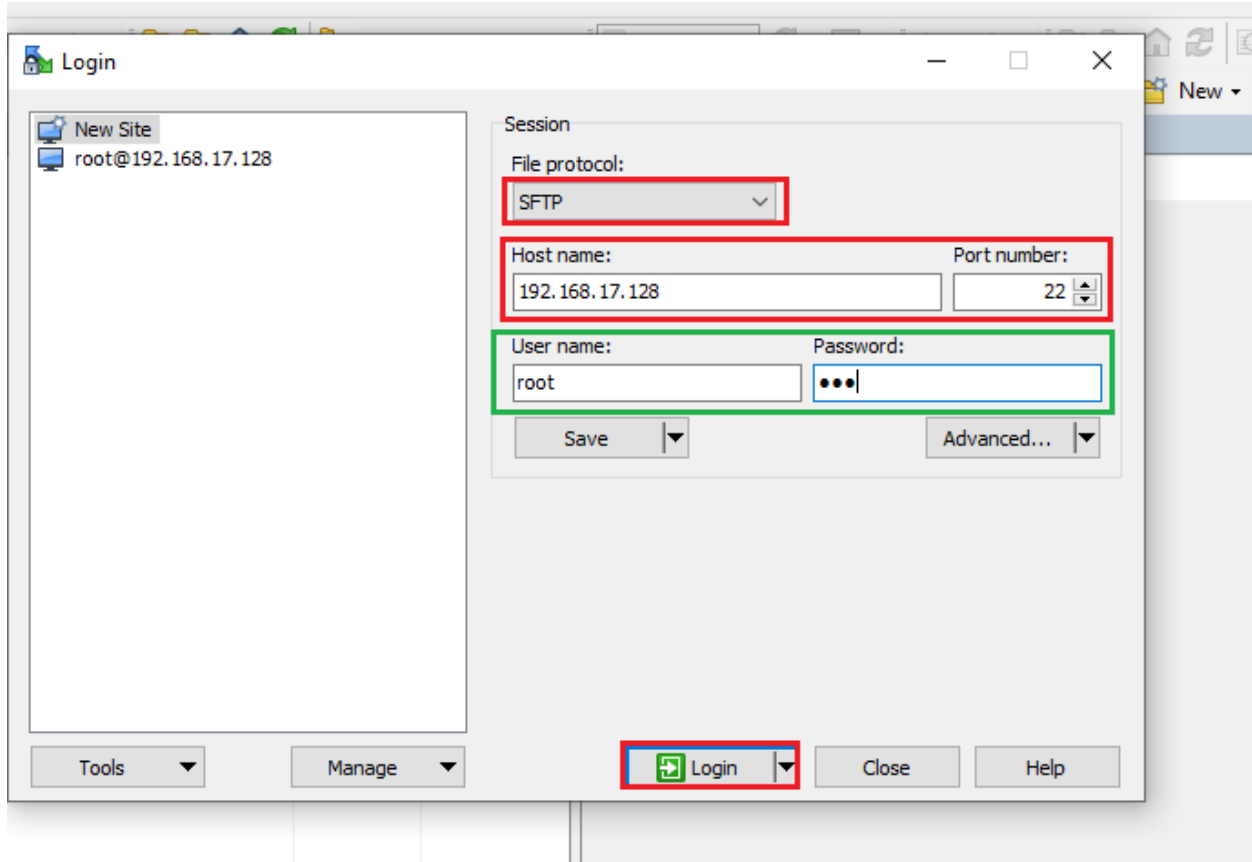
The screenshot shows a file explorer window with a list of files. The file 'FGT_VM64_KVM-v7.0.5-build0304-FORTINET.out.kvm.zip' is selected and highlighted with a red box. A context menu is open over the file, with '7-Zip' selected and highlighted with a red box. Other options in the menu include 'Open', 'Open in new window', 'Share with Skype', and 'Extract All...'. The file list also includes 'FMG_VM64_KVM-v7.2.0-build112', 'FAZ_VM64_KVM-v7.2.0-build112', 'mutillidae.zip', 'Instructor PowerPoints.zip', and 'Introduction to Cybersecurity v2...'.



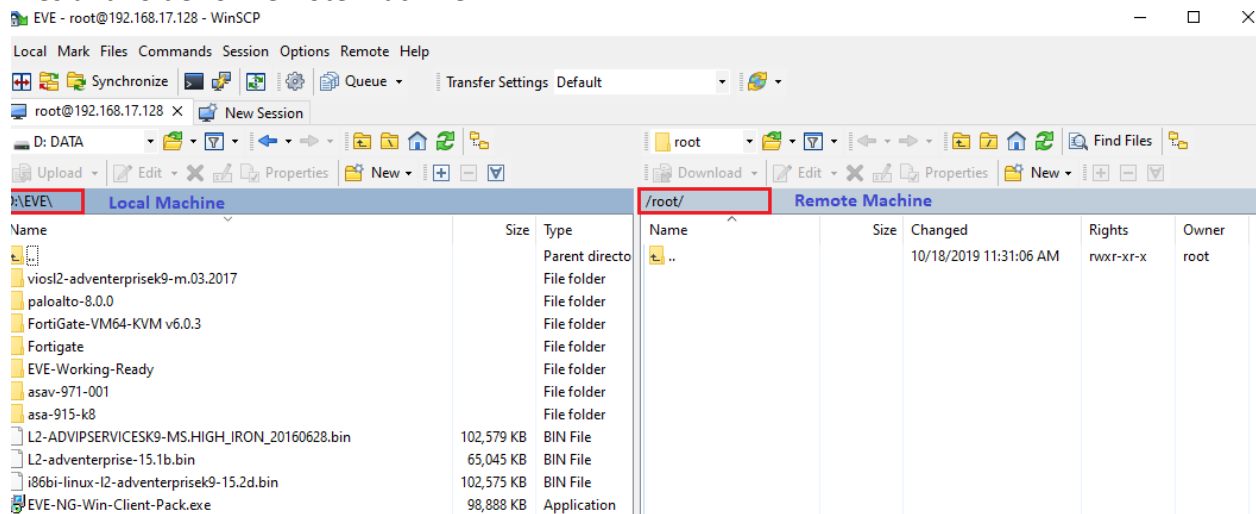
The screenshot shows a file explorer window with the path 'This PC > WIN (C:) > Users > USER > Downloads > Compressed > FGT_VM64_KVM-v7.0.5-build0304-FORTINET.out.kvm'. The file list shows a single file named 'fortios.qcow2' with a date modified of '2/9/2022 2:23 AM', a type of 'QCOW2 File', and a size of '73,344 KB'. The file name is highlighted with a red box.

Name	Date modified	Type	Size
fortios.qcow2	2/9/2022 2:23 AM	QCOW2 File	73,344 KB

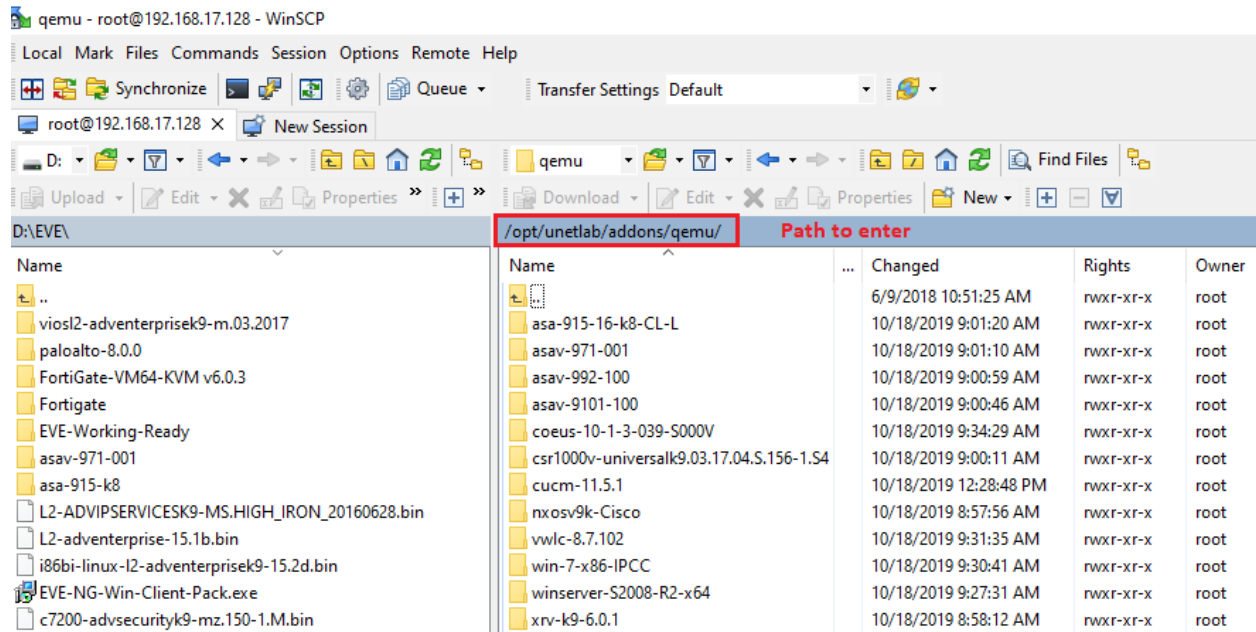
Open **WinSCP**, once you connected to WinSCP type the IP address of EVE-NG in host name choose the File Protocol: **SFTP**, Port number: **22**, User names: **root** and Password: **eve**.



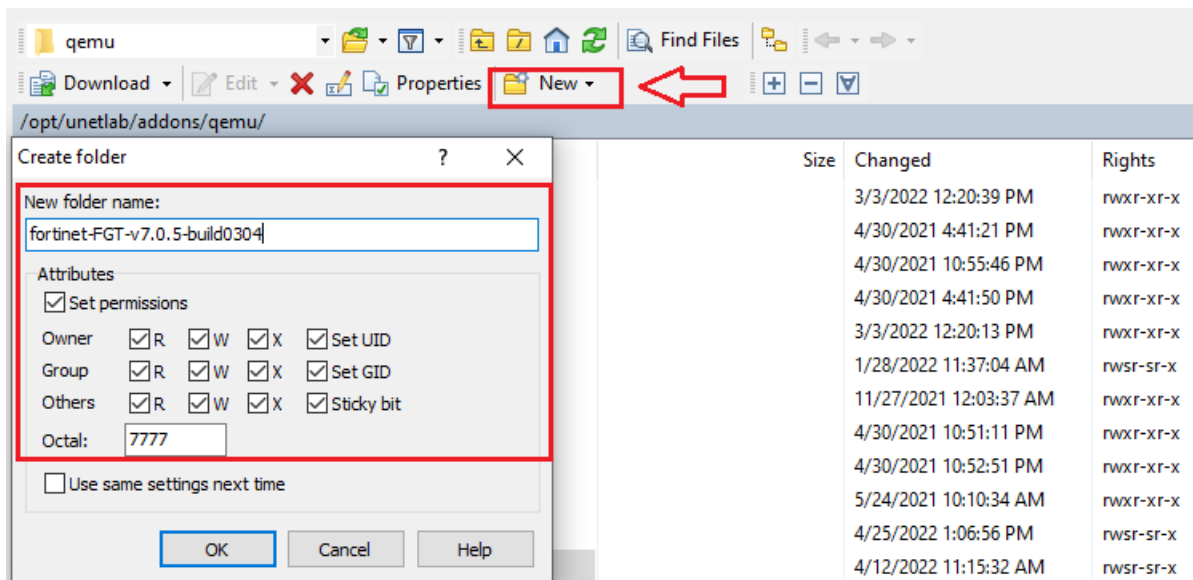
The column on the left represent file on local machine and the column on the right represent files and folder on remote machine.



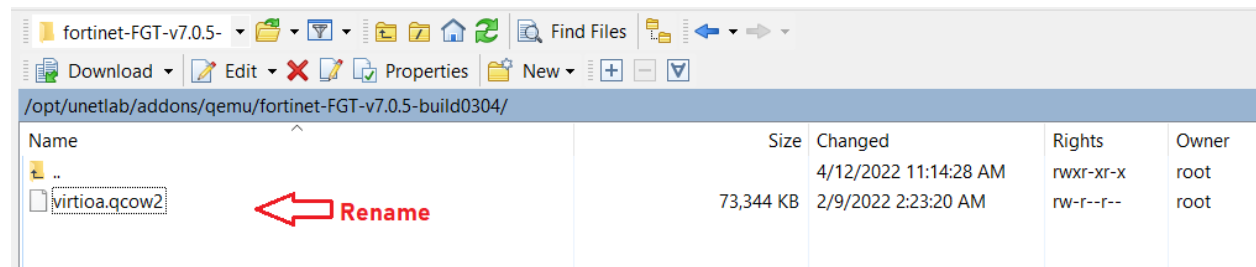
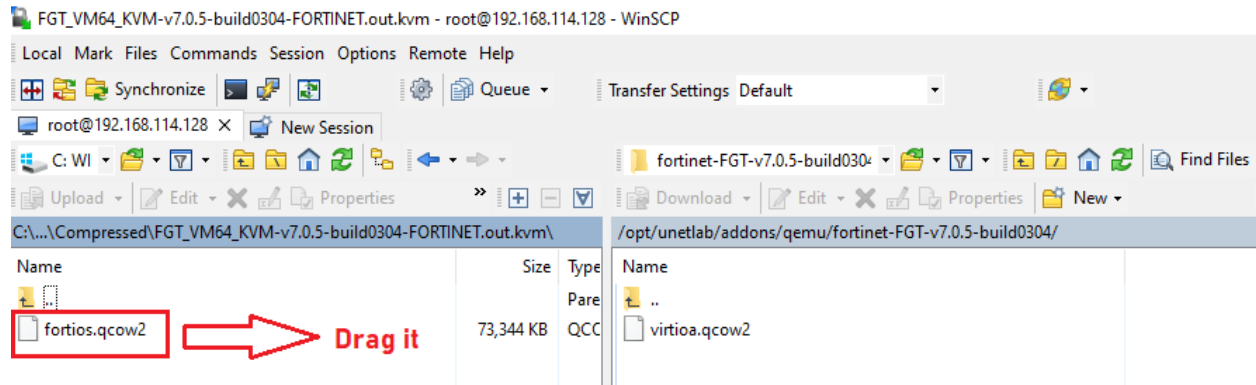
Go to the path **opt->unetlab->addons->qemu** on the remote machine.



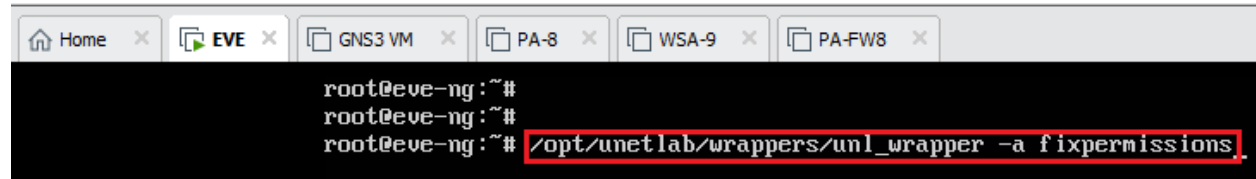
Create a directory in remote location **/opt/unetlab/addons/qemu** using the folder name: **fortinet-FGT-v7.0.5-build0304**



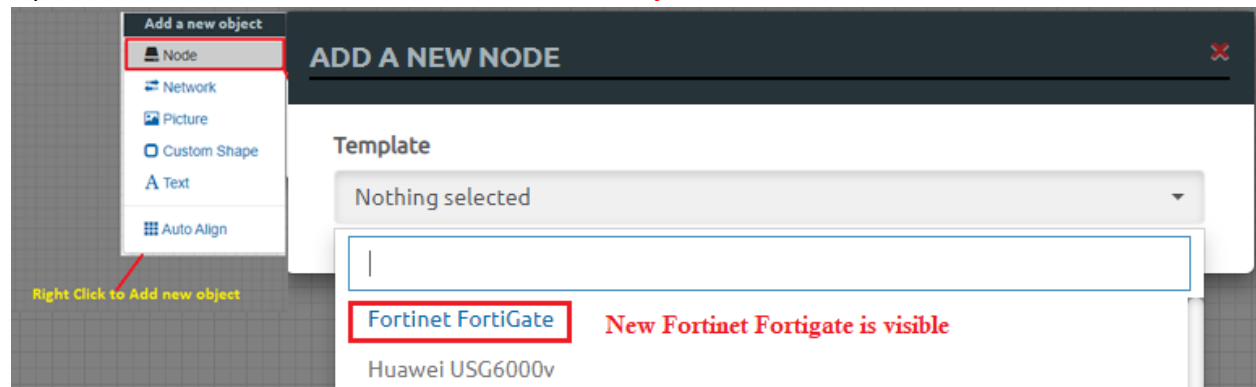
Drag the file (**forties.qcow2**) downloaded to **fortinet-FGT-v7.0.5-build0304** folder rename **forties.qcow2**>> **virtioa.qcow2** the name must be: **virtioa.qcow2**



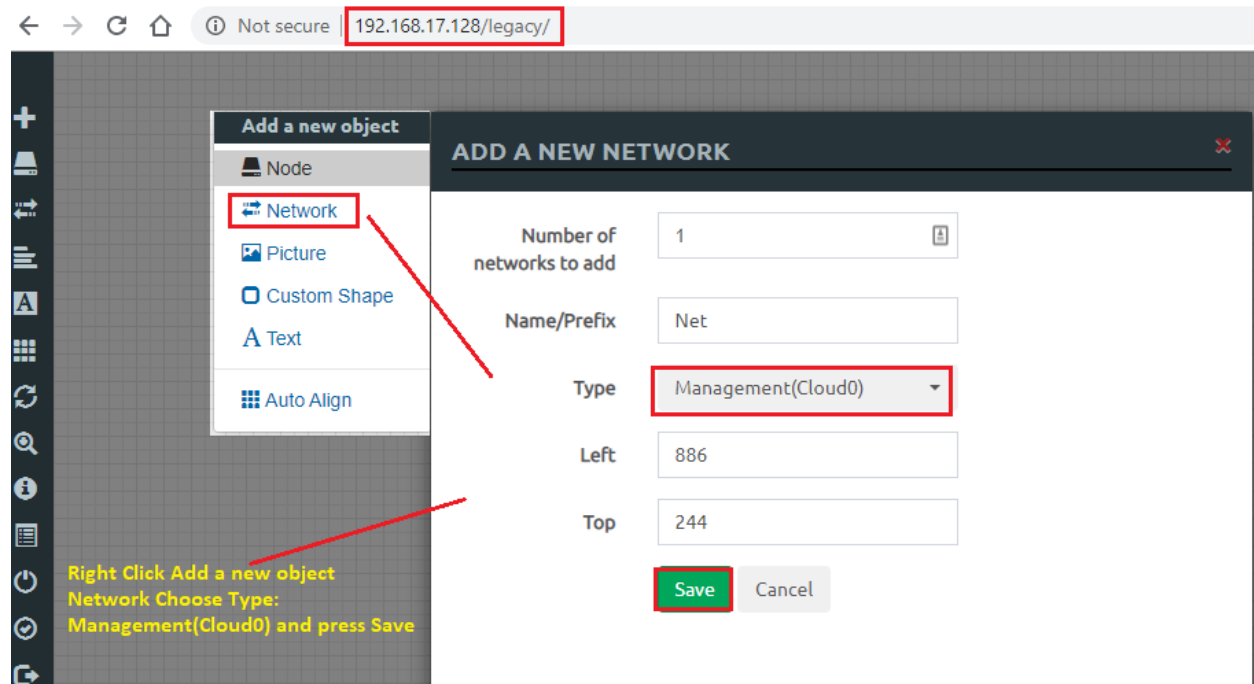
Save the configuration by fixing the permissions using the following command on EVE-NG.
/opt/unetlab/wrappers/unl_wrapper -a fixpermissions



Open the EVE-NG in the browser then 'Add an Object' and select the Node.



Add an object' and select the Network make Type **Management(Cloud0)** and press Save button.



Connect Network Object to Fortinet **Port1**.



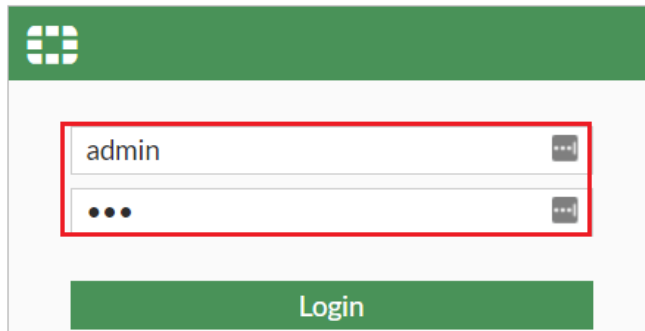
At the login prompt type admin and press Enter. The password area is blank by default. It may prompt to immediately change the password. Provide the password twice.

```
FortiGate-VM64-KVM login: admin
Password:
You are forced to change your password, please input a new password.
New Password:***
Confirm Password:***
Welcome !
```

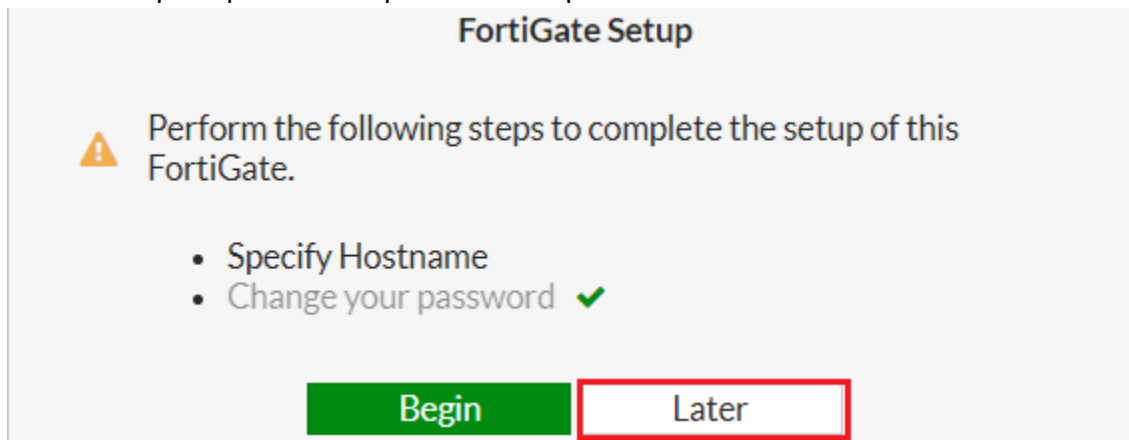
It will get the IP address from DHCP server if available or you can set static IP address. Type the command to see IP Address: **FortiGate-VM64-KVM#Diagnose ip address list**

```
FortiGate-VM64-KVM # diagnose ip address list
IP=192.168.122.134->192.168.122.134/255.255.255.0 index=3 devname=port1
IP=127.0.0.1->127.0.0.1/255.0.0.0 index=7 devname=root
IP=127.0.0.1->127.0.0.1/255.0.0.0 index=9 devname=vsys_ha
IP=127.0.0.1->127.0.0.1/255.0.0.0 index=11 devname=vsys_fgfm
```

Now can manage the PA-VM node via GUI, Use the computer that connected to management network; then use web browser to navigate <http://192.168.122.134/> Login using **admin/123**



You will be prompted to complete the setup of FortiGate. For this I have chosen to do so Later.



Once logged in, the Dashboard status appears. FortiGate gives you 14-day trial access to VM.

