VM creation and OS installation manual

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CS475: Capstone Seminar

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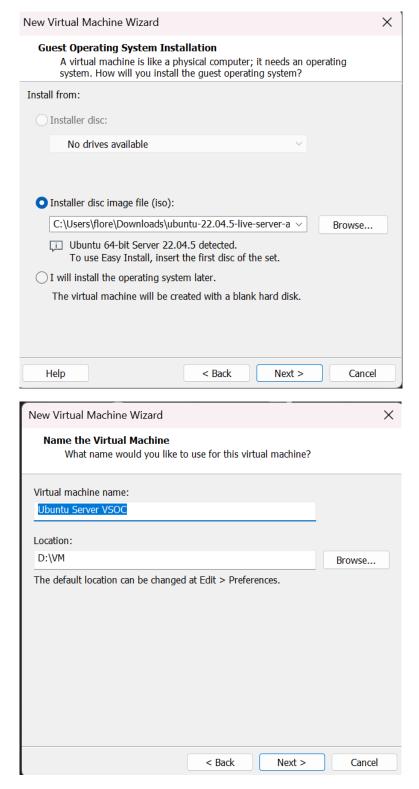
1. Creaton of VM in VMware

For this project we need to create a VM machine where we are going to locate our vSOC.

The creation of the VM in VMware is very straightforward, we will use the recommended option for the creation of our VM.

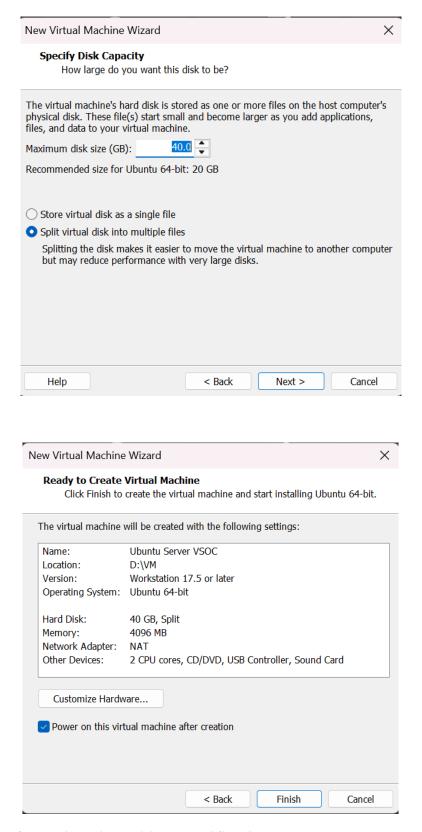


In this section we need to choose the image iso (single file that contains an entire optical disc), in this project we are using Ubuntu Server 22.05 LTS.



Naming of the machine and where we are to locate this VM in our case into a USB driver.

We added a standard size for installing the operating system in the VM, but we can add more disk space anytime during the project in case is more needed.



Summary of our virtual machine specifications.

2. Installation of the OS (Ubuntu Server)

At the beginning of the installation we will see this prompt which can take couple minutes until it pop you up the installation of the operating system.

```
Eggin: Runing /Scripts/casper-premount ... done.
done.
done.
Begin: Creating deboonf-communicate fifo mechanism ... done.
Begin: Runing /Scripts/Casper-bottom ... Begin: Noving mount points... ... done.
Begin: Runing /Scripts/Casper-bottom ... Begin: Noving mount points... ... done.
Begin: Runing /Scripts/Casper-bottom ... Begin: Noving mount points... ... done.
Begin: Setting up locationate login. ... ... done.
Begin: Setting up audionate login. ... ... done.
Begin: Setting up locationate login. ... ... done.
Begin: Setting up oatomate login. ... ... done.
Begin: Setting up console keyboard ... ... done.
Begin: Begin
```

In this section we will need to choose the language of the system:

Indicates we have a new update available so is recommended to install the operating system with the newest version:

```
Installer update available ( Help )

Version 24.10.1 of the installer is now available (24.08.1 is currently running).

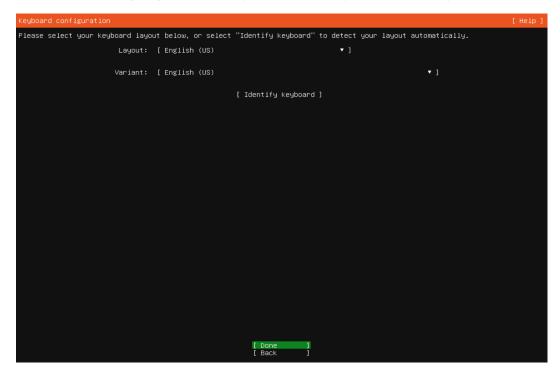
You can read the release notes for each version at:

https://github.com/canonical/subiquity/releases

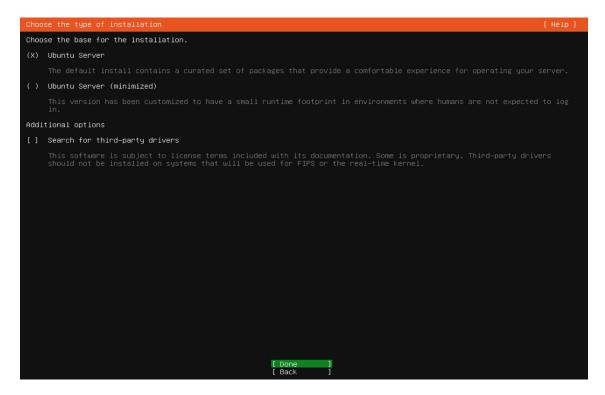
If you choose to update, the update will be downloaded and the installation will continue from here.

| Update to the new installer |
| Continue without updating |
| Back |
| Continue without updating |
| Back |
|
```

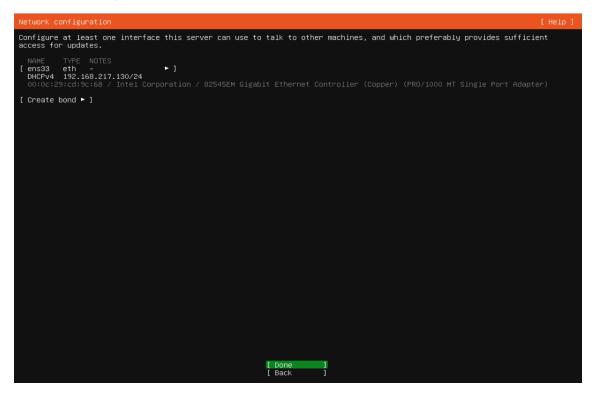
Choose the language of the keyboard and layout of the keyboard:



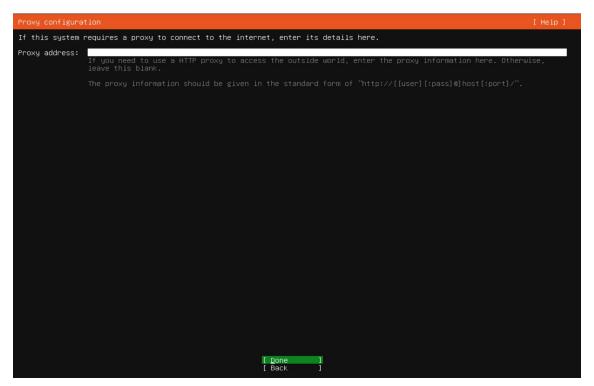
Here we indicate which kind of installation of Ubuntu Server we want, in our case the normal installation of Ubuntu Server:



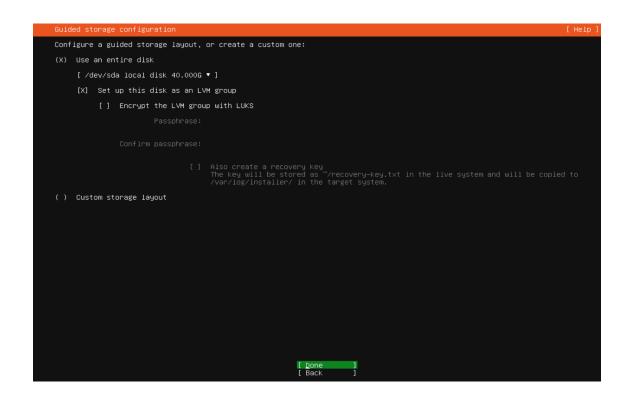
The network configuration we leaved in the default configuration until we need to configure it in the future:



We left in the default configuration empty until we configure our own proxy:



The storage configuration we leave by default here we can change where we want to locate the installation of the ubuntu server.



More extra configuration we can leave in default, like where is locate the /boot or the root system /:

Creation of superuser and user of your ubuntu server.

Profile configuration [Help]
Enter the username and password you will use to log in to the system. You can configure SSH access on a later screen, but a password is still needed for sudo.
Your name:
Your servers name: The name it uses when it talks to other computers.
Pick a username:
Choose a password:
Confirm your password:
[Done]
f pours 1

Installation process:

```
subiquity/load_cloud_config/extract_autoinstall:
subiquity/ReportIng/Apply_autoinstall_config:
curtin command install_config:
curtin command install_config:
curtin command block-meta simple
revecuting curtin install partitioning step
curtin command block-meta simple
runting 'curtin block-meta simple'
curtin command block-meta simple
configuring partition: partition-0
configuring format: format-0
configuring imm_partition: lum_partition-0
configuring format: format-1
configuring meta tracting limage from cp:///tmp/tmpgdlio3bn/mount /

[ View full log ]
```

After installing the operating system is always recommended to check for last updates and upgrades. Using the command: (sudo apt update, sudo apt upgrade):

```
root@vsoc:/home/vsoc# apt update
Get:1 http://security.ubuntu.com/ubuntu jammy—security InRelease [129 kB]
Hit:2 http://us.archive.ubuntu.com/ubuntu jammy InRelease [128 kB]
Hit:4 http://us.archive.ubuntu.com/ubuntu jammy—ppdates InRelease [128 kB]
Hit:4 http://us.archive.ubuntu.com/ubuntu jammy—backports InRelease
Fetched 257 kB in 1s (176 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Reading state information... Done
Reading state information... Done
Reading package lists... Done
Building dependency tree... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Reading state information... Done
Calculating upgrade... Done
The following NEW packages will be installed:
python3-packageing
The following packages will be upgraded:
cloud-init distro-info-data dmidecode gir1.2-packagekitglib-1.0 libmbim-glib4 libmbim-proxy
libmm-glib0 libpackagekit-glib2-18 libpam-modules libpam-modules-bin libpam-runtime libpamOg
libcapo.8 modemmanager packagekit packagekit-tools snapd sosreport ubuntu-advantage-tools
ubuntu-minimal ubuntu-pro-client ubuntu-pro-client-lion ubuntu-server ubuntu-server-minimal
ubuntu-standard xfsprogs
26 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 32.5 MB of archives.
After this operation, 5,667 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y_
```