CLI Instructions

Guide to a Headless Linux Install

Create a new VM Machine (Look at the instructions for the GUI if you forgot how)

- Name: yourname-CLI
- RAM: 1024
- CPU: 1
- HD: 16G
- VLAN: assigned to you

Booting your machine

- Boot: D Drive
- Image: bionic_server

Note the VNC:Port of your new machine and have your VM Worksheet with the IP nums available.

Remember that this is keyboard based – your mouse will not work.
Use tab and/or arrow keys to navigate and ENTER to select.
**IMPORTANT – Do not automatically choose Done. You must arrow up and choose ens4 and then press enter to get the little box that allows you to choose ‘Edit IPv4’. If you missed this note, you can use “Back” to get back to screen 4.**

<table>
<thead>
<tr>
<th>NAME</th>
<th>TYPE</th>
<th>NOTES / ADDRESSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>ens4</td>
<td>eth</td>
<td>DHCPv4 has supplied no addresses</td>
</tr>
<tr>
<td>52:54:00:08:00:70</td>
<td>Realtek Semiconductor Co., RTL-8100/8101L/8139 PCI Fast Ethernet Adapter</td>
<td></td>
</tr>
</tbody>
</table>

[Create bond]
You must enter the information manually. The subnet is different than on the GUI install. It is in CIDR notation. That means that it will take your first IP address and then add /29 to the end.

**Subnet**: 144.38.218.8/29
**Address**: 144.38.218.10

(One of your 5 usable addresses)

**Name servers**: 144.38.192.2, 144.38.192.3
**Search domains**: it1100.cs.dixie.edu

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**IP’s**: 144.38.218.8 – 144.38.218.15
**VLAN**: 3066
**Gateway**: (Starting IP + 1) 144.38.218.9

**Subnet**: (256 – 8 (IP’s) = 248) 255.255.255.248
**Broadcast**: (Last IP in range) 144.38.218.15

**Usable IP’s**: (First = Starting IP + 2)
1. 144.38.218.10
2. 144.38.218.11 (bionic desktop)
3. 144.38.218.12
4. 144.38.218.13
5. 144.38.218.14

**DNS Servers**
144.38.192.2, 144.38.192.3

**Search domains**: it1100.cs.dixie.edu
Network connections

Edit ens4 IPv4 configuration

Subnet: 144.38.218.8/29
Address: 144.38.218.10
Gateway: 144.38.218.9
Name servers: 144.38.192.2, 144.38.192.3

[ Save ]
[ Cancel ]

Select an interface to configure it or select Done to continue

Network connections

Edit ens4 IPv4 configuration

Address: 144.38.218.10
Gateway: 144.38.218.9
Name servers: 144.38.192.2, 144.38.192.3
IP addresses, comma separated
Search domains: 1t1100.cs.dixie.edu

[ Save ]
[ Cancel ]

Select an interface to configure it or select Done to continue
Network connections

Configure at least one interface this server can use to talk to other machines, and which preferably provides sufficient access for updates.

<table>
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<tr>
<th>NAME</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ens4</td>
<td>eth</td>
<td>144.38.210.10/29 (static)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>52:54:00:00:00:70 / Realtek Semiconductor Co., Ltd. / RTL-8100/8101L/8139 PCI Fast Ethernet Adapter (QEMU Virtual Machine)</td>
</tr>
</tbody>
</table>

[ Create bond ▶ ]

Select an interface to configure it or select Done to continue

Don’t need to enter a Proxy address

Configure proxy

If this system requires a proxy to connect to the internet, enter its details here.

Proxy address: If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

The proxy information should be given in the standard form of “http://[user]:[pass]@[host]:[port]/”.

[ Done ]
[ Back ]
We will create our own partitions.

Configure Ubuntu archive mirror

If you use an alternative mirror for Ubuntu, enter its details here.

Mirror address: http://archive.ubuntu.com/ubuntu

You may provide an archive mirror that will be used instead of the default 'http://archive.ubuntu.com/ubuntu'

[ Done ]
[ Back ]

Filesystem setup

The installer can guide you through partitioning an entire disk either directly or using LVM, or, if you prefer, you can do it manually.

If you choose to partition an entire disk you will still have a chance to review and modify the results.

[ Use An Entire Disk ]
[ Use An Entire Disk And Set Up LVM ]
[ Manual ]
[ Back ]

Choose guided or manual partitioning

Filesystem setup

DEVICE | SIZE | TYPE
------ | ---- | ----
QEMU-HARDISK-QM00001 | 10.000G | local disk

unused

[ Create software RAID (md) ]
[ Create volume group (LVM) ]

USED DEVICES

No used devices

[ Done ]
[ Reset ]
[ Back ]

Select available disks to format and mount
Make sure to mount this on /home.
The swap partition should be 2X the RAM
We do want to set up the hard drive so “Continue”

Profile setup

Enter the username and password (or ssh identity) you will use to log in to the system.

Your name: Carol

Your server's name: carol-cli
The name it uses when it talks to other computers.

Pick a username: CIT username

Choose a password: **********

Install in progress: acquiring and extracting image from cp://media/filesystem
Don't choose any of the snaps.

Installation complete!

These are popular snaps in server environments. Select or deselect with SPACE, press ENTER to see more details of the package, publisher and versions available.

- sahnzbd
- wormhole
- aus-cli
- google-cloud-sdk
- sicli
- doctl
- conjure-up
- minibln-escoand
- postgresql10
- heroku
- keepalived

SABnzbd
get things from one computer to another
Universal Command Line Interface for Am
Command-line interface for Google Cloud
Python based SoftLayer API Tool.
DigitalOcean command line tool
Package runtime for conjure-up spells
server software with the aim of being f
PostgreSQL is a powerful, open source o
CLI client for Heroku
High availability VRRP and load-balanci

[ Done ]

Install complete
You must turn your machine off manually and then turn it back on booting off the c drive.
Check your machine:port so that you can get back in.

This completes part I of assignment 7. There is much more you need to do. Please refer to the instructions for assignment 7 here: http://cit.dixie.edu/it/1100/projects.examples/lab7.php