## Creating a Virtual Machine (VM)

Use your Web Browser to go to vm.cs.dixie.edu

Login with your CIT user name and password

Create a new VM Machine using the setting specified in the assignment:

- **Name**: Linux-CLI
- **RAM**: 512M
- **CPU**: 1
- **HD**: 6G
- **VLAN**: default

Press the green plus (+) button

Booting your machine:

- **RAM**: 512M
- **Boot**: D Drive
- **Image**: xenial_server

Press the green power button

Note the **VNC:Port** of your new machine and your **Base IP address**

## Tunneling Into VNCViewer

Create a Tunnel to your VM Machine

```
ssh -N -p22 <CIT username>@ssh.cs.dixie.edu -L 127.0.0.1:8585:<VNC:Port>
```

Leave that terminal open

Open your VNC Viewer

Connect to your VM using localhost:8585
# Creating a LINUX Virtual Machine
## IT1100

## Installing Linux

Remember that this is keyboard based - Your mouse will not work.

Press **Enter** after each selection

Language: **English**

### Install Ubuntu Server

Language: **English**

Location: **United States**

Detect Keyboard Layout: **No**

Configure Keyboard: **English(US)**

Keyboard Layout: **English(US)**

Network Autoconfig Failed: **Continue**

### Configure network manually

<table>
<thead>
<tr>
<th>IP Address</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>144.38.<em><strong>.</strong></em></td>
<td>(base+2 for CLI install)</td>
</tr>
<tr>
<td>144.38.<em><strong>.</strong></em></td>
<td>(base+3 for GUI install)</td>
</tr>
<tr>
<td>144.38.<em><strong>.</strong></em></td>
<td>(base+4 for Partitions)</td>
</tr>
</tbody>
</table>

Netmask: **255.255.255.248**

Gateway: **144.38.___.___** (base+1 for all installs - should auto-complete)

Name Server Addresses: **144.38.192.2 144.38.192.3**

Hostname: **cit-username-CLI**

Domain name: **<Default>**

Full name: **<enter your first and last name here>**

Username: **<enter your CIT username here>**

Password: **<enter your CIT password here>**

Re-Enter: **<CIT password>**

Encrypt: **No**

Time Zone: **Yes**

Partition: **Guided – use entire disk**

Select Disk: **<Enter>**

Write Changes: **Yes**

HTTP proxy: **leave blank**

Updates: **No automatic updates**

### Software Selection:

- Use the arrow keys to highlight
- Use the spacebar to check the box
- Select: **standard system utilities**
- and **OpenSSH server**

Grub Bootloader: **Yes**

Installation Complete: **Continue**

Your virtual machine should automatically turn itself off

Re-login to vm.cs.dixie.edu

### Restart the machine:

Find your vm and press the green **Power** button. *(Using C Drive and NO boot image)*