

Creating a LINUX/Apache/MySql/PHP (LAMP) Virtual Machine (VM)

Creating a VM machine

```
Use your Web Browser to go to vm.cs.dixie.edu
Login with your CIT user name and password
Create a new VM Machine:
  * Name :    SQL
  * RAM:    512M
  * CPU:     2
  * HD:     16G
  * VLAN:   Use VLAN from ip range
Booting your machine:
  * RAM:    512M
  * Boot:   D Drive
  *        xenial_server
Note your server:ID and the BASE IP address
```

Installing LINUX

```
VNC into your machine: www.tightvnc.com
  * Server:          vm.cs.dixie.edu:port
  * Encryption:     default
  * This part should be done on campus. (only needs to be done once.)
English
Install Ubuntu Server
English
United States
Detect KB (NO)
English (US)
English (US)
Network Autoconfig Failed (Continue)
Configure network manually
IP (144.38.base.base+2)
Netmask (255.255.255.248)
Gateway (144.38.base.base+1)
Name Server addresses (144.38.192.2 144.38.192.3)
Hostname (flast-sql)
Domain (Enter)
Full Name (CITUser)
User Name (CITUser)
Password (CITPassword)
Again (CITPassword)
Encrypt (NO)
Time Zone YES
Partition Guided-Use entire disk and setup LVM
Disk (Enter)
amount of volume (enter)
Write Changes (Yes)
Installing the system (Be patient)
HTTP (Enter)
Manage updates (Install security updates automatically)
Software Selection - DANGER hitting enter goes on
  * Use arrows to chose software.
  * Use space to select software for installation.
  * Select Basic Ubuntu server
      OpenSSH server
      LAMP server
(Continue)
MySQL root password (CITPassword)
MySQL Again (CITPassword)
GRUB (YES)
Installation Complete (Continue)
Power down Machine
Restart machine: (Default Settings)
```

Using Putty (On Campus)

```
Run PuTTY (http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html)  
* host 144.38.base.base+2
```

Using Putty (Off Campus)

```
Run puTTY  
* host ssh.cs.dixie.edu  
* login  
* from linux prompt ssh 144.38.base.base+2
```

Using winSCP (On Campus)

```
Run winSCP http://winscp.net/eng/download.php  
* host 144.38.base.base+2
```