

SERVER CONFIGURATION

Requirements

- Operating system
 - ubuntu 14.04
- Mysql 5.5
- couchdb
- Rbenv
- Ruby
- Network manager
- Dnsmasq
- Clonezilla
- Touchscreen Computer images
- Node Js
- NVM(Node Version Manager)
- External DVD drive
- Monitor
- Keyboard
- NGINX

SERVER SETUP

Change power supply from AC to DC(Operations Department should do this)

BIOS setup

- Enable boot from LAN
- parameters should be set to Legacy
- Set power state to “On” on power failure
- Set Wake on LAN option to “ON”
- boot options (First priority should be hard drive)

INSTALL OPERATING SYSTEM

- Power on the server
- insert OS DVD in external DVD drive
- Connect the peripherals(external DVD drive, monitor, keyboard) to the server
- Boot the server
- go to boot menu
 - select boot media
- installation process
 - Partitioning – use entire disk
 - install ssh server
 - user name meduser and sever name should be named after an indigenous tree for security reasons ask for a password setting conversion
 - reboot after installation process

INSTALL UPDATES AND DEPENDENCIES

Server OS

```
$sudo apt-get update  
$sudo apt-get upgrade  
$sudo apt-get install build-essential
```

Server Utilities

install dnsmasq

```
sudo apt-get install dnsmasq  
sudo apt-get install dnsmasq-base
```

install vim

```
sudo apt-get install vim
```

install git

```
sudo apt-get install git
```

install mysql 5.5

```
sudo apt-get install mysql 5.5  
username => root  
password => root
```

install couchdb

```
$ sudo apt-get install couchdb -y  
$ sudo vim /etc/couchdb/default.ini – change bind address to 0.0.0.0
```

Install Rbenv

```
$ sudo apt-get update  
$ sudo apt-get install git-core curl zlib1g-dev build-essential libssl-dev libreadline-  
dev libyaml-dev libsqlite3-dev sqlite3 libxml2-dev libxslt1-dev libcurl4-openssl-dev  
python-software-properties libffi-dev  
$ cd  
$ git clone https://github.com/rbenv/rbenv.git ~/.rbenv  
$ echo 'export PATH="$HOME/.rbenv/bin:$PATH"' >> ~/.bashrc  
$ echo 'eval "$(rbenv init -)"' >> ~/.bashrc  
$ exec $SHELL  
$ git clone https://github.com/rbenv/ruby-build.git ~/.rbenv/plugins/ruby-build  
$ echo 'export PATH="$HOME/.rbenv/plugins/ruby-build/bin:$PATH"' >> ~/.bashrc  
$ exec $SHELL
```

Install Ruby Versions Using Rbenv

```
$ rbenv install 2.1.2  
$ rbenv install 1.8.7-p374
```

Install Clonezilla

Refer to Clonezilla SOP

- Copy Touchscreen computers images to partimage folder

Install Network Manager

```
$ sudo apt-get install network-manager
```

Install Nodejs and Node Version Manager

\$ sudo apt-get install nodejs

\$ sudo apt-get install npm