

How to Build a Linux Server and Untar the CIMC and BIOS bin files from UCS HUU?

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Introduction

The document describes the procedure to build the Linux server and unzip the **cimc.bin** and **bios.bin** file from HUU ISO.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- UCS
- Linux

Components Used

The information in this document is based on these software and hardware versions:

- Any VM or Hardware with resources to install RHEL
- RHEL ISO download
- Squash RPM download

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

How to Build this Server?

Step 1. Download the required Software.

Get Linux ISO

Download ISO from this global link:

https://archive.org/download/rhel-server-7.5-x86_64-dvd/rhel-server-7.5-x86_64-dvd.iso
OR

Download from your lab or enterprise, if already available

Download Squash

http://mirror.centos.org/centos/7/os/x86_64/Packages/squashfs-tools-4.3-0.21.gitaae0aff4.el7.x86_64.rpm

Step 2. Install Linux ISO and Install Squash.

Install Linux Server

Quick Installation Guide

https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html/installation_guide/chap-simple-install

Install squash

```
rpm -ivh squashfs-tools-4.3-0.21.gitaae0aff4.el7.x86_64.rpm
```

Step 3. Configure Network on the Operating System.

1. Check the Network.

```
[root@localhost ~]# ip address | grep mtu
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
2: ens192: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
```

Here interface to be used is **ens192**

2. Assign IP and Gateway on the Interface.

In this example,

ens192 is the network interface

192.168.1.2 is the IP assigned to interface

192.168.1.1 is the Gateway

255.255.255.255 or /24 is the Subnet

3. Add the IP Address.

```
ip address add 192.168.1.2/24 dev ens192
```

4. Add the Default Gateway.

```
ip route add default via 192.168.1.1 dev ens192
```

5. Check the reachability.

Ping Gateway: ping 192.168.1.1

Now the server is ready.

How to Upload and Untar ISO to bin Files?

How to Upload ISO?

Upload the ISO(**ex.ucs-c220m4-huu-4.1.2f.iso**) to the Linux server using SFTP Client(e.g. Filezilla)

Credentials for SFTP is root/password (this is set during OS installation) and port number is 22

Wait for the upload to complete...

How to Untar the ISO to bin Files?

SSH to the Linux Server IP with root credentials

Step 1. Mount the ISO.

```
mount -t iso9660 /root/ucs-c220m4-huu-4.1.2f.iso /media/
```

Step 2. Copy the getfw from the CD Folder to Root Location.

```
cp /media/GETFW/getfw /root
```

Step 3. Run the Script.

```
./getfw -s /root/ucs-c220m4-huu-4.1.2f.iso -d /root/
```

Output: FW/s available at '/tmp/HUU/ucs-c220m4-huu-4.1.2f'

Files and location:

ucs-c220m4-huu-4.1.2f/bios/bios.bin

ucs-c220m4-huu-4.1.2f/cimc/cimc.bin

Download the files

Download the **cimc.bin** or **bios.bin** using the SFTP client.

Unmount the media and delete the files.

```
umount /media/
```

```
rm -rf ucs-c220m4-huu-4.1.2f*
```

Note: The process is not for all HUU ISOs. Rest all HUU can be decompressed to find the bin files.