1 Ubuntu 18.04 LTS Server (Bionic Beaver) Installation Guide
2 Refer to https://www.linuxtechi.com/ubuntu-18-04-server-installation-guide/
3
4 -Now a days Ubuntu is the most widely used Operating system used servers level.
5 -Canonical had released its latest and stable version of server as Ubuntu 18.04 LTS (Bionic Beaver).
6 -In this article we will discuss what new features that has been included in this release and also discuss Ubuntu 18.04 Server installation steps.
7 -Let's look into the new features of Ubuntu 18.04 Server,
8   1) Introduction of new Network configuration utility "netplan", It is used to configure Static IP and Bridge.
9   2) Python version 3.6
10   3) New updated Linux Container manager LXD 3.0
11   4) Updated QEMU 2.11.1
12   5) Updated libvirt 4.0
13   6) Updated Open vSwitch 2.9
14   7) Chrony has been replaced NTP for time syncing
15   8) PHP has been updated to PHP 7.2
16   9) New Version of OpenStack "Queen" has been included.
17   10) Cloud-init has been updated to 18.2
18
19 -Let's jump into the Installation guide,
20 -Minimum system requirement for Ubuntu 18.04 Server
21
22   --2 GB RAM
23   --20 GB hard disk Space
24   --Dual core Processor (2 GHZ)
25   --Installer Media (USB / DVD)
26
27
28 Step 1. Download Ubuntu 18.04 Server ISO file
29   1)Download the Ubuntu 18.04 Server ISO file from the Ubuntu official web site:
30
31   http://releases.ubuntu.com/18.04/
32
33   2)Once the file is downloaded then burn it either into USB or DVD and make it Bootable.
34   3)In Case you have downloaded the iso file in Ubuntu desktop then refer the following:
35
36   How to Create Bootable USB Disk / DVD on Ubuntu / Linux Mint
37   https://www.linuxtechi.com/create-bootable-usb-disk-dvd-ubuntu-linux-mint/
38
39
40 Step 2. Boot system (or server) with bootable media
41   1)Now reboot your target system or server, go to the bios settings and change the boot sequence, select the bootable media that you have created in step:1
42
43   2)Welcome
44   -Select your preferred language and then hit enter : English
45   3)Keyboard configuration
46   -Select the preferred Keyboard layout that suits to your installation, in my case I am taking as default.

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47          --Layout : English (US)
48          --Variant : English (US)
49
50      4)Ubuntu 18.04
51        -Choose "Install Ubuntu" option and then hit enter,
52
53
54   Step 3. Choose your Network and Proxy Configuration
55      1)Network connections
56        -Choose the network configuration that suits your environment, by default it will try to
           pick IP address from the DHCP server.
57        -In my case I am selecting the default option and later on I will demonstrate how to
           configure static ip address.
58        -Choose "Done" and then press enter
59      2)Configure proxy
60        -If your system is connected to the internet via some proxy servers then specify the
           details of proxy else leave it as blank,
61      3)Configure Ubuntu archive mirror
62        -Mirror address : default setting
63
64
65   Step 4. Choose partitioning scheme either as automatic or manual
66      1)Filesystem setup
67        -Select the partitioning scheme either as automatic or manual.
68        -In this tutorial I will demonstrate how to create your own partition table using manual
           method.
69        -So select "Manual" option and then hit enter,
70      2)As we can see I have 50 GB space for Ubuntu 18.04 Server installation, we will create
         the following partitions on it,
71
72        -Swap = 4 GB (ext4 file system)
73        -/boot = 0.5GB (ext4 file system)
74        -/ = 44.5GB (ext4 file system)
75
76      3)50.000G local disk -> Add Partition
77        -Size (max 50.0G) : 4GB
78        -Format : swap
79        -Create
80        -SWAP 4.000G swap partition of local disk
81
82      4)50.000G local disk -> Add Partition
83        -Size (max 45.997G) : 0.5G
84        -Format : ext4
85        -Mount : /boot
86        -Create
87        -/boot 512.000M ext4 partition of local disk
88
89      5)50.000G local disk -> Add Partition
90        -Size (max 45.497G) : leave blank
91        -Format : ext4
92        -Mount : /
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 93        -Create
 94        -/ 45.497G ext4 partition of local disk
 95
 96     6)Done
 97
 98     7)Confirm destructive action
 99        -Select "Continue" to write changes on the disk
100
101
102  Step 5. Specify User details, hostname and start the installation
103     1)Profile setup
104        -Specify the user name, its password and hostname for your system.
105           --Your name :
106           --Your server's name :
107           --Pick a username :
108           --Choose a password :
109           --Confirm your password :
110           --Import SSH identity : No
111
112     2)Installing system
113        -Choose Done to proceed with installation
114        -Done
115
116     3)Installation complete!
117        -You will be prompted to reboot your system once the installation is completed.
118
119     4)Reboot Now
120
121     5)Remove the installation media and change the boot sequence and set it as hard disk.
122        -Please remove the installation medium, then press ENTER:
123
124
125  Step 6. Login after Ubuntu 18.04 Server Installation
126     Ubuntu 18.04 LTS webserver tty1
127     webserver login:
128
129
130  Step 7. To do after installation Ubuntu Server 18.04 LTS
131     1)Ubuntu Cache Update
132
133        $ sudo apt-get update
134
135     2)Ubuntu Upgrade
136
137        $ sudo apt-get upgrade
138
139     3)Ubuntu Firewall enable
140
141        $ sudo ufw enable
142
143     4)Timezone setting
```

144
145
146 Step 8. Configure static IP address in Ubuntu 18.04 Server
147   1) $ ip link
148   2)   As we discussed in the features section, network configuration in Ubuntu 18.04 server
       is controlled by "netplan" utility.
149   3)To configure the static ip address, edit the file "/etc/netplan/50-cloud-init.yaml"
150
151       $ sudo nano /etc/netplan/50-cloud-init.yaml
152
153   4)Replace the IP address details, gateway and dns server that suits your environment.
154
155   network:
156   ethernets:
157   enp0s3:
158   addresses: []
159   dhcp4: true
160   enp0s8:
161   addresses: [192.168.56.x/24]
162   gateway4: 192.168.56.0
163   dhcp4: false
164   version: 2
165
166   5)Now apply these changes using below netplan command
167
168       $ sudo netplan apply
169
170   6)If you want to run above netplan command in debug command, then execute below
       command,
171
172       $ sudo netplan apply --debug
173
174   7)Now you can verify the IP address details using ip command
175
176       $ ip add show
177