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Ubuntu 18.04 LTS Server (Bionic Beaver) Installation Guide
     Refer to https://www.linuxtechi.com/ubuntu-18-04-server-installation-guide/
4
     -Now a days Ubuntu is the most widely used Operating system used servers level.
     -Canonical had released its latest and stable version of server as Ubuntu 18.04 LTS
     (Bionic Beaver).
     -In this article we will discuss what new features that has been included in this
 6
     release and also discuss Ubuntu 18.04 Server installation steps.
     -Let's look into the new features of Ubuntu 18.04 Server,
         1) Introduction of new Network configuration utility "netplan", It is used to
 8
         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
         --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.
         3) In Case you have downloaded the iso file in Ubuntu desktop then refer the
34
         following:
35
36
             How to Create Bootable USB Disk / DVD on Ubuntu / Linux Mint
                 https://www.linuxtechi.com/create-bootable-usb-disk-dvd-ubuntu-linux-mint/
37
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
             -Select the preferred Keyboard layout that suits to your installation, in my
46
             case I am taking as default.
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.
             -Choose "Done" and then press enter
58
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
             -Mirror address : default setting
63
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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
              -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 : /
 93
              -Create
              -/ 45.497G ext4 partition of local disk
 94
 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
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134
135
          2) Ubuntu Upgrade
136
137
              $ sudo apt-get upgrade
138
139
          3) Ubuntu Firewall enable
140
              $ sudo ufw enable
141
142
143
          4) Timezone setting
144
              -How to Check the Current Time Zone
145
                   --Open your Terminal application through Ubuntu Dash or through the
                  Ctrl+Alt+T shortcut.
146
                   --Enter the following command in order to view information about your
                  system's time and time zone:
147
148
                       $ timedatectl
149
150
                  --You can also view this information by using the following command:
151
152
                       $ ls -l /etc/localtime
153
154
              -How to Change the Time Zone
155
                   --Open the Terminal and enter the following command in order to list all
                  the timezones of the specified zone:
156
157
                       $ timedatectl list-timezones | grep -i asia
158
159
                  --First, let us unlink the system time with local time through the
                  following command:
160
161
                       $ sudo unlink /etc/localtime
162
163
                  -- The next step is to use the following command to set a new time zone:
164
165
                       $ sudo ln -s /usr/share/zoneinfo/Asia/Seoul /etc/localtime
166
167
              -Check
168
                  $ timedatectl
169
                  or
                   $ ls -l /etc/localtime
170
171
172
173
      Step 8. Configure static IP address in Ubuntu 18.04 Server
174
          1) $ ip link
175
             As we discussed in the features section, network configuration in Ubuntu
          18.04 server is controlled by "netplan" utility.
          3) To configure the static ip address, edit the file
176
          "/etc/netplan/50-cloud-init.yaml"
177
178
              $ sudo nano /etc/netplan/50-cloud-init.yaml
179
180
          4) Replace the IP address details, gateway and dns server that suits your
          environment.
181
182
              network:
183
                   ethernets:
184
                           enp0s3:
185
                                    addresses: []
186
                                       dhcp4: true
187
                           enp0s8:
188
                                    addresses: [192.168.56.x/24]
                                       gateway4: 192.168.56.1
189
190
                                       dhcp4: false
191
                       version: 2
192
193
          5) Now apply these changes using below netplan command
194
195
              $ sudo netplan apply
196
197
          6) If you want to run above netplan command in debug command, then execute below
          command,
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133

\$ sudo apt-get update

198											
199	\$	sudo	ne	tplan	apply		debug				
200											
201	7)Now	you	can	verif	y the	ΙP	address	details	using	ip	command
202											
203	\$	ip a	add	show							
204											