

Unattended Installation of Ubuntu Server 18.04 via PXE

Preface

```
export P=/ubuntu/18.04
export TFTPR00T=/var/lib/tftp
export WEBR00T=/var/lib/www/html
export HTTP_URL=http://192.168.1.1
```

Directory Structure

```
mkdir -p $TFTPR00T/$P
mkdir -p $WEBR00T/$P
```

Obtain necessary files

```
export URL=http://archive.ubuntu.com/ubuntu/dists/bionic-
updates/main/installer-amd64/current/images/netboot/ubuntu-installer/amd64
wget -O $TFTPR00T/$P/initrd.gz $URL/initrd.gz
wget -O $TFTPR00T/$P/linux $URL/linux
```

Create pxelinux.cfg stanza

```
cat << EOF >> $TFTPR00T/pxelinux.cfg/default

LABEL ubuntu18.04
    MENU LABEL Ubuntu 18.04 Installation x64
    KERNEL $P/linux
    IPAPPEND 1
    APPEND initrd=$P/initrd.gz ksdevice=eth0 locale=en_US.UTF-8 keyboard-
configuration/layoutcode=de interface=eth0 hostname=ubuntu18
url=$HTTP_URL/$P/preseed.cfg
EOF
```

Create sources.list

Because of the PXE installation, sources.list in the installed system is empty - thus a usable sources.list is downloaded in the final stage of the installation - see below.

```
cat << EOF > $WEBROOT/$P/sources.list
##### Ubuntu Main Repos
deb http://at.archive.ubuntu.com/ubuntu/ bionic main restricted universe
multiverse

##### Ubuntu Update Repos
deb http://at.archive.ubuntu.com/ubuntu/ bionic-security main restricted
universe multiverse
deb http://at.archive.ubuntu.com/ubuntu/ bionic-updates main restricted
universe multiverse
EOF
```

Create preseed.cfg

```
cat << EOF > $WEBROOT/$P/preseed.cfg
d-i debian-installer/locale string en_US
d-i console-setup/ask_detect boolean false
d-i keyboard-configuration/layoutcode string de
d-i netcfg/choose_interface select eth0
d-i netcfg/get_hostname string ubuntu18
d-i netcfg/get_domain string test.local
d-i netcfg/wireless_wep string
d-i mirror/country string manual
d-i mirror/http/hostname string at.archive.ubuntu.com
d-i mirror/http/directory string /ubuntu
d-i mirror/http/proxy string
d-i clock-setup/utc boolean true
d-i time/zone string EU/Vienna
d-i clock-setup/ntp boolean true
d-i clock-setup/ntp-server string at.pool.ntp.org
d-i partman-auto/disk string /dev/sda
d-i partman-auto/method string lvm
d-i partman-lvm/device_remove_lvm boolean true
d-i partman-lvm/device_remove_lvm_span boolean true
d-i partman-auto/purge_lvm_from_device boolean true
d-i partman-lvm/confirm boolean true
d-i partman-lvm/confirm_nooverwrite boolean true
d-i partman-auto-lvm/new_vg_name string vg00
d-i partman-auto/expert_recipe string \
    standard ::
        1024 1026 1024 ext3
        $primary{ }
        $bootable{ }
        method{ format }
        format{ }
        use_filesystem{ }
        filesystem{ ext3 }
        mountpoint{ /boot }
    .
```

```
24576 60000 -1 ext4          \\
$lvmk{ }                     \\
method{ format }             \\
format{ }                    \\
use_filesystem{ }            \\
filesystem{ ext4 }           \\
mountpoint{ / }              \\
lv_name{ lvRoot }            \\
.                              \\
2048 2049 300% linux-swap    \\
$lvmk{ }                     \\
method{ swap }                \\
format{ }                    \\
lv_name{ lvSwap }            \\
.                              \\
d-i partman-auto/choose_recipe standard
d-i partman-auto-lvm/guided_size string max
d-i partman-partitioning/confirm_write_new_label boolean true
d-i partman/choose_partition select finish
d-i partman/confirm boolean true
d-i partman/confirm_nooverwrite boolean true
d-i partman-auto/confirm boolean true
#d-i passwd/root-login boolean false
#d-i passwd/make-user boolean false
#d-i passwd/root-password password r00tme
#d-i passwd/root-password-again password r00tme
d-i passwd/user-fullname string Ubuntu
d-i passwd/username string ubuntu
d-i passwd/user-password password ChangeMe!
d-i passwd/user-password-again password ChangeMe!
d-i user-setup/allow-password-weak boolean true
d-i user-setup/encrypt-home boolean false
d-i pkgsel/include string openssh-server update-motd
tasksel tasksel/first multiselect server, openssh-server
d-i pkgsel/update-policy select none
d-i grub-installer/only_debian boolean true
d-i grub-installer/with_other_os boolean true
d-i preseed/late_command string \\
wget $HTTP_URL/$P/sources.list -O /target/etc/apt/sources.list
d-i finish-install/reboot_in_progress note
EOF
```

Regarding Partman Priority Voodoo read

https://www.bishnet.net/tim/blog/2015/01/29/understanding-partman-autoexpert_recipe/

kb, linux, pxe, ubuntu

From:

<http://fortytwo.adurias.org/> - **Fortytwo - Answer to the Ultimate Question of Life, the Universe, and Everything**

Permanent link:

<http://fortytwo.adurias.org/install-ubuntu-18.04-pxe>

Last update: **2021/05/05 07:01**

