

# Introduction to Linux Installation

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**David Clinton**

LINUX SYSTEM ADMINISTRATOR

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# Overview



# Overview



## Background

# Overview



**Background**

**Configuration options**

# Overview



**Background**

**Configuration options**

**Install:**

# Overview



**Background**

**Configuration options**

**Install:**

- PC

# Overview



**Background**

**Configuration options**

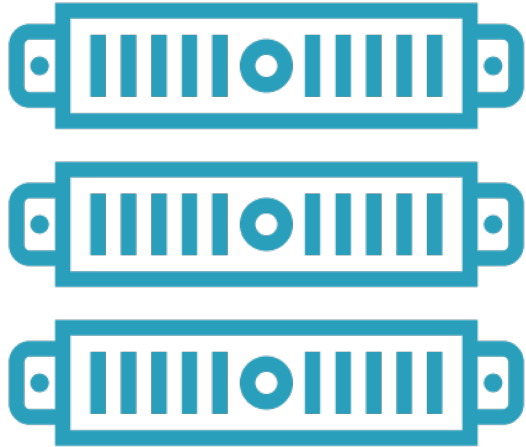
**Install:**

- PC
- Cloud/Docker instances

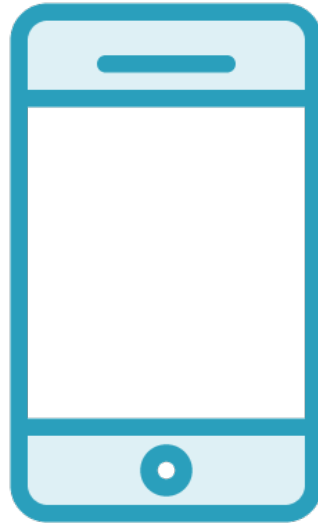
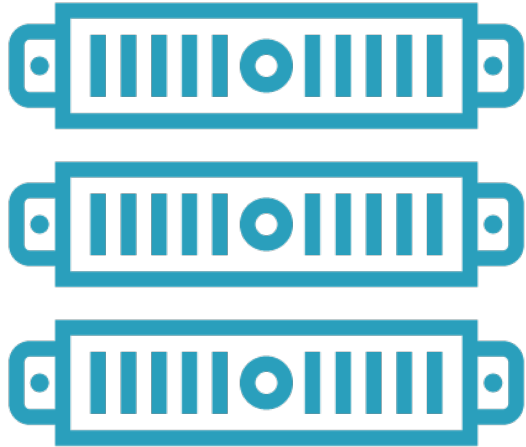
# Linux Installation Targets



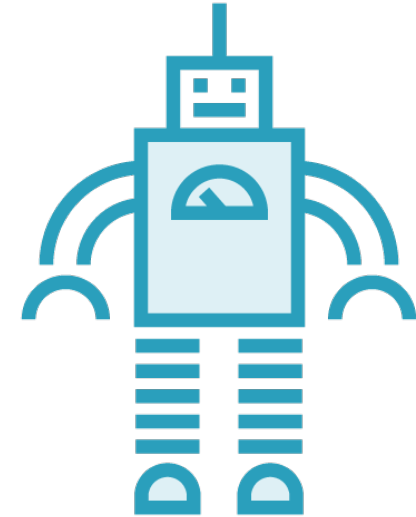
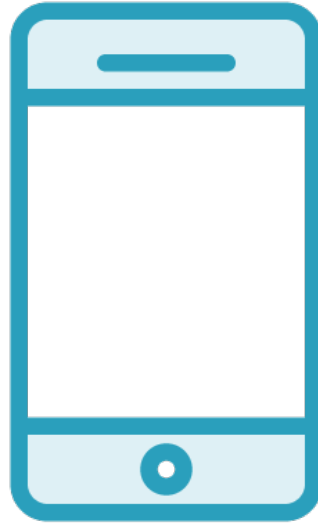
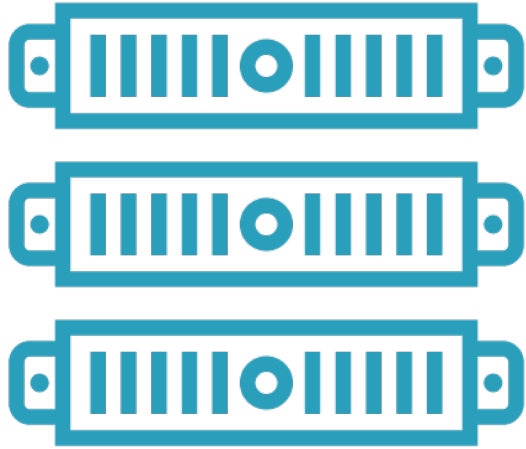
# Linux Installation Targets



# Linux Installation Targets



# Linux Installation Targets



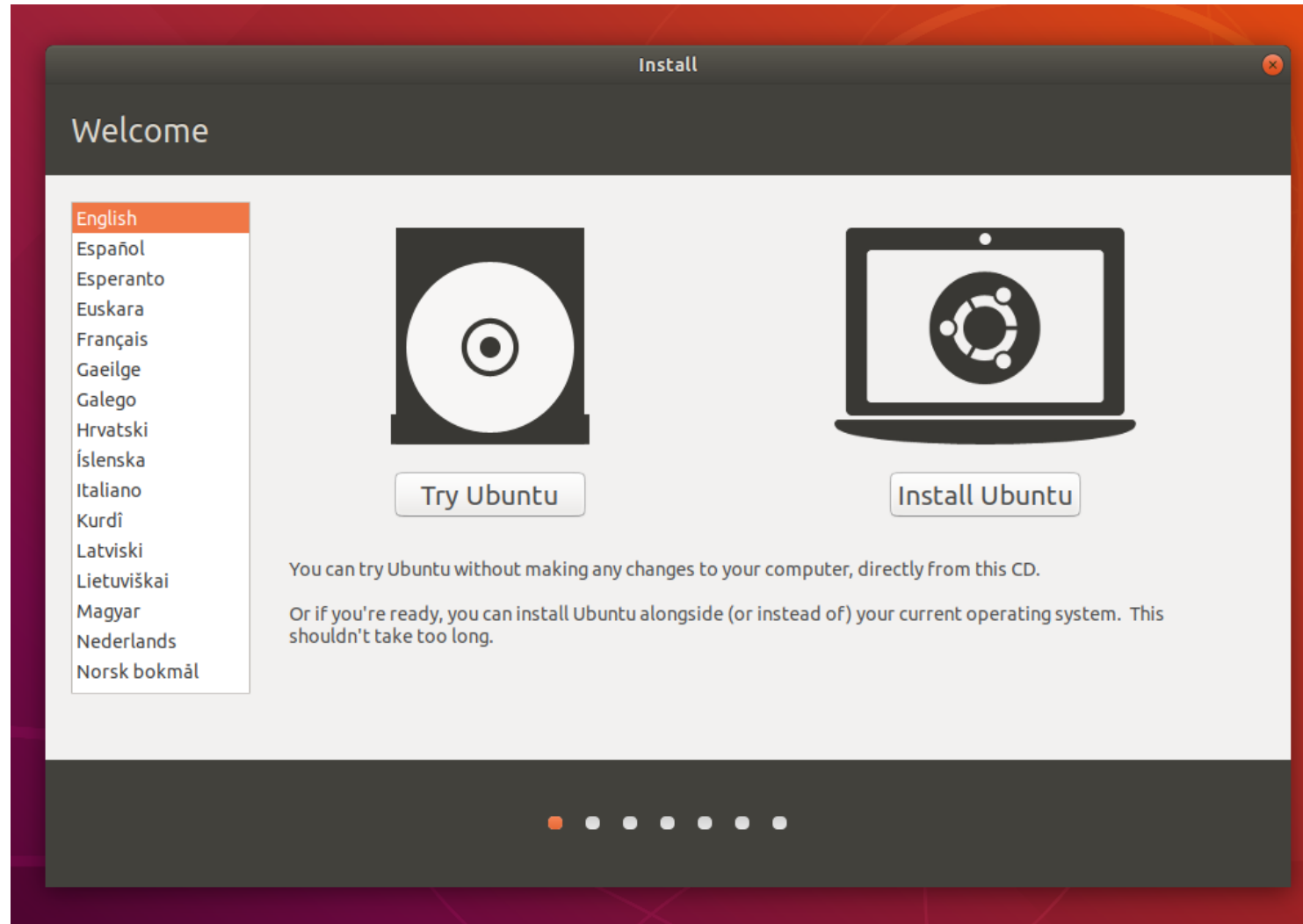
# Dockerfile Script

```
FROM ubuntu:latest
MAINTAINER D Clinton
info@bootstrap-it.com
RUN apt-get update
RUN apt-get install -y apache2
ADD index.html /var/www/html/
CMD /usr/sbin/apache2ctl -D
FOREGROUND
EXPOSE 80
```

# Installation-time Decisions

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# Language Selection



# Location Selection

✖ Install


Where are you?

A world map with a light blue background and white landmasses. The North American continent is highlighted in a vibrant green color. A red pin is placed on the East Coast of the United States, specifically over New York City. The map includes latitude and longitude lines.

Back


Continue

# Create User


  
CentOS


CONFIGURATION


CENTOS 7 INSTALLATION




USER SETTINGS

 **ROOT PASSWORD**  
*Root password is set*

 **USER CREATION**  
*No user will be created*

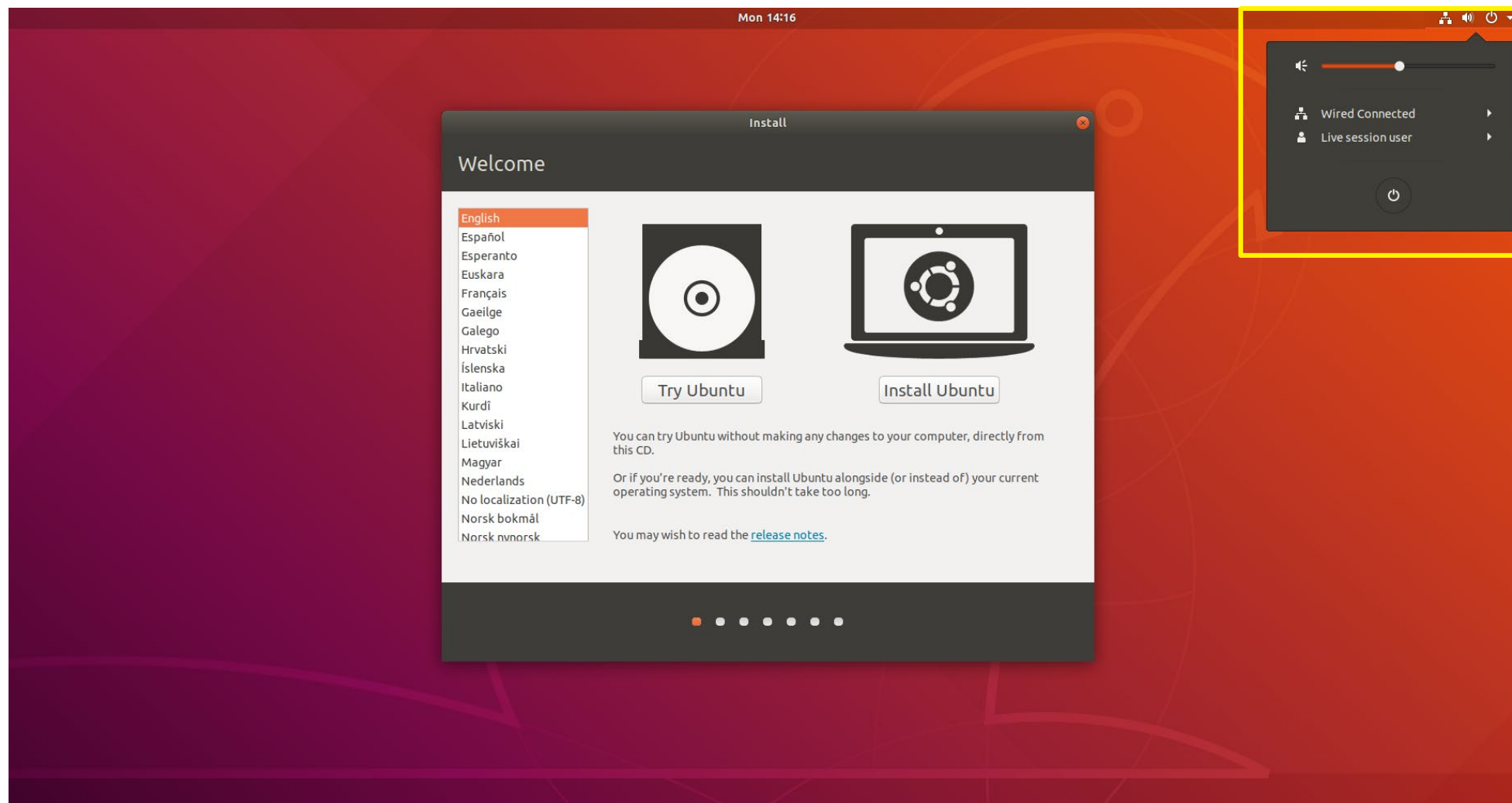
 Performing post-installation setup tasks

**CentOS Core SIG**  
Produces the CentOS Linux Distribution.  
[wiki.centos.org/SpecialInterestGroup](http://wiki.centos.org/SpecialInterestGroup)





# Update Network Settings



# Single Partition Install

```
ubuntu@base:~$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sdb4	192G	16G	167G	9%	/
none	492K	0	492K	0%	/dev
udev	3.5G	0	3.5G	0%	/dev/tty
tmpfs	100K	0	100K	0%	/dev/lxd
tmpfs	100K	0	100K	0%	/dev/.lxd-mounts
tmpfs	3.6G	0	3.6G	0%	/dev/shm
tmpfs	3.6G	144K	3.6G	1%	/run
tmpfs	5.0M	0	5.0M	0%	/run/lock
tmpfs	3.6G	0	3.6G	0%	/sys/fs/cgroup

# Single Partition Install

```
ubuntu@base:~$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sdb4	192G	16G	167G	9%	/
none	492K	0	492K	0%	/dev
udev	3.5G	0	3.5G	0%	/dev/tty
tmpfs	100K	0	100K	0%	/dev/lxd
tmpfs	100K	0	100K	0%	/dev/.lxd-mounts
tmpfs	3.6G	0	3.6G	0%	/dev/shm
tmpfs	3.6G	144K	3.6G	1%	/run
tmpfs	5.0M	0	5.0M	0%	/run/lock
tmpfs	3.6G	0	3.6G	0%	/sys/fs/cgroup

# Single Partition Install

```
main@workstation:~$ df -ht ext4
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sda1	110G	6.7G	98G	7%	/
/dev/sdb5	192G	60G	123G	33%	/home
/dev/sdb4	192G	16G	167G	9%	/var

# Single Partition Install

```
main@workstation:~$ df -ht ext4
```

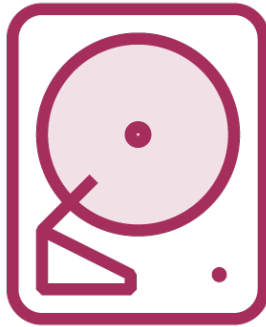
Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sda1	110G	6.7G	98G	7%	/
/dev/sdb5	192G	60G	123G	33%	/home
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# Single Partition Install

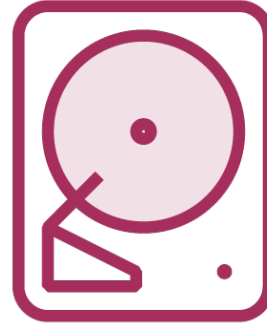
```
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/dev/sda1	110G	6.7G	98G	7%	/
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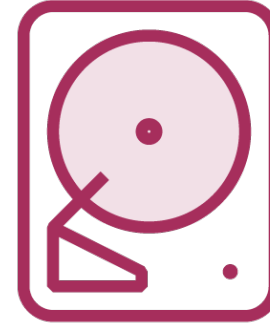
# Logical Volume Manager (LVM)



1TB

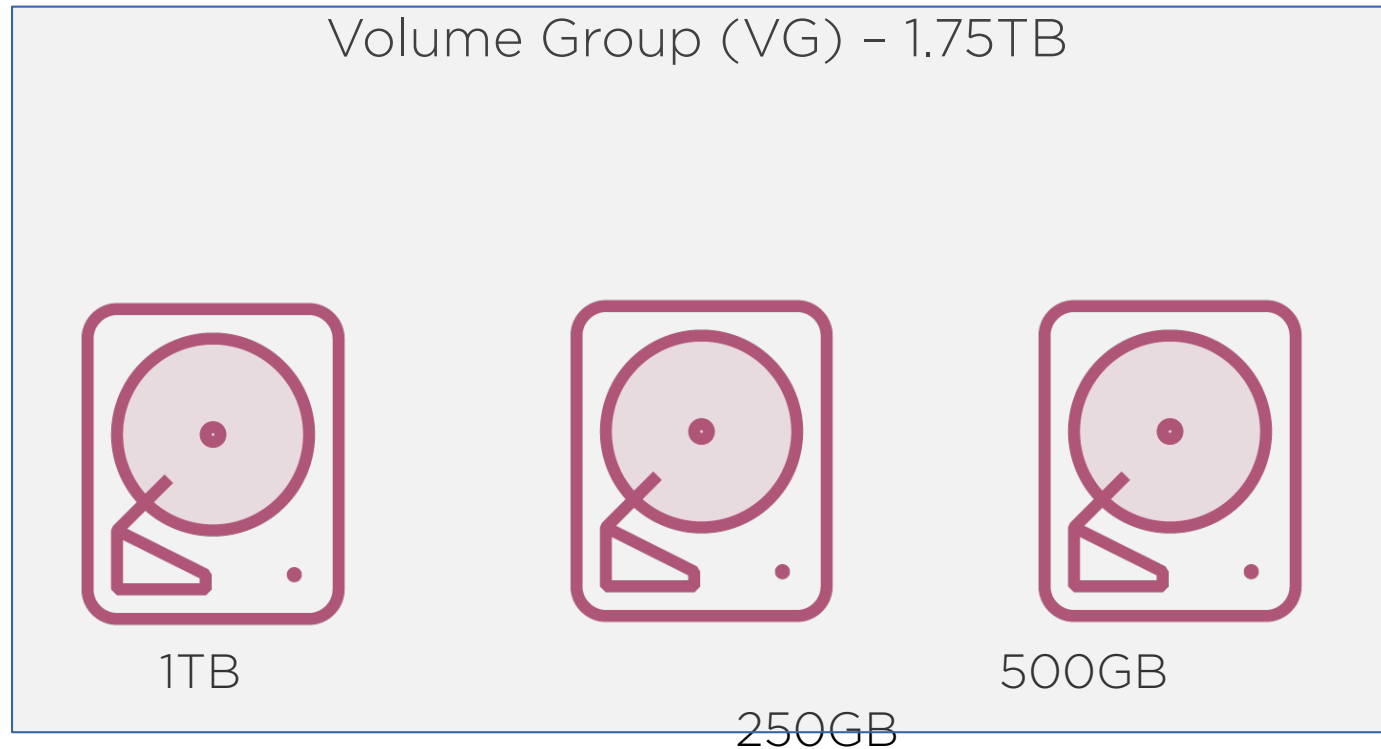


250GB



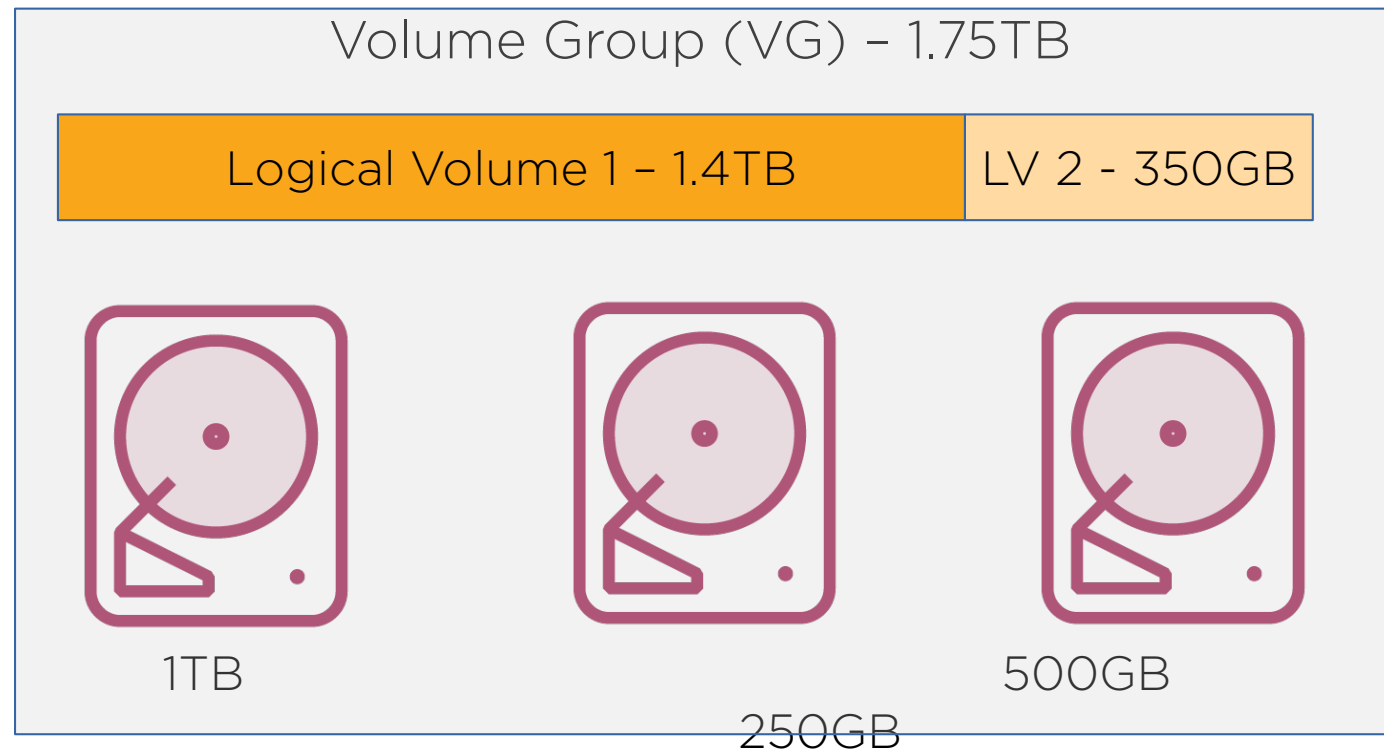
500GB

# Logical Volume Manager (LVM)

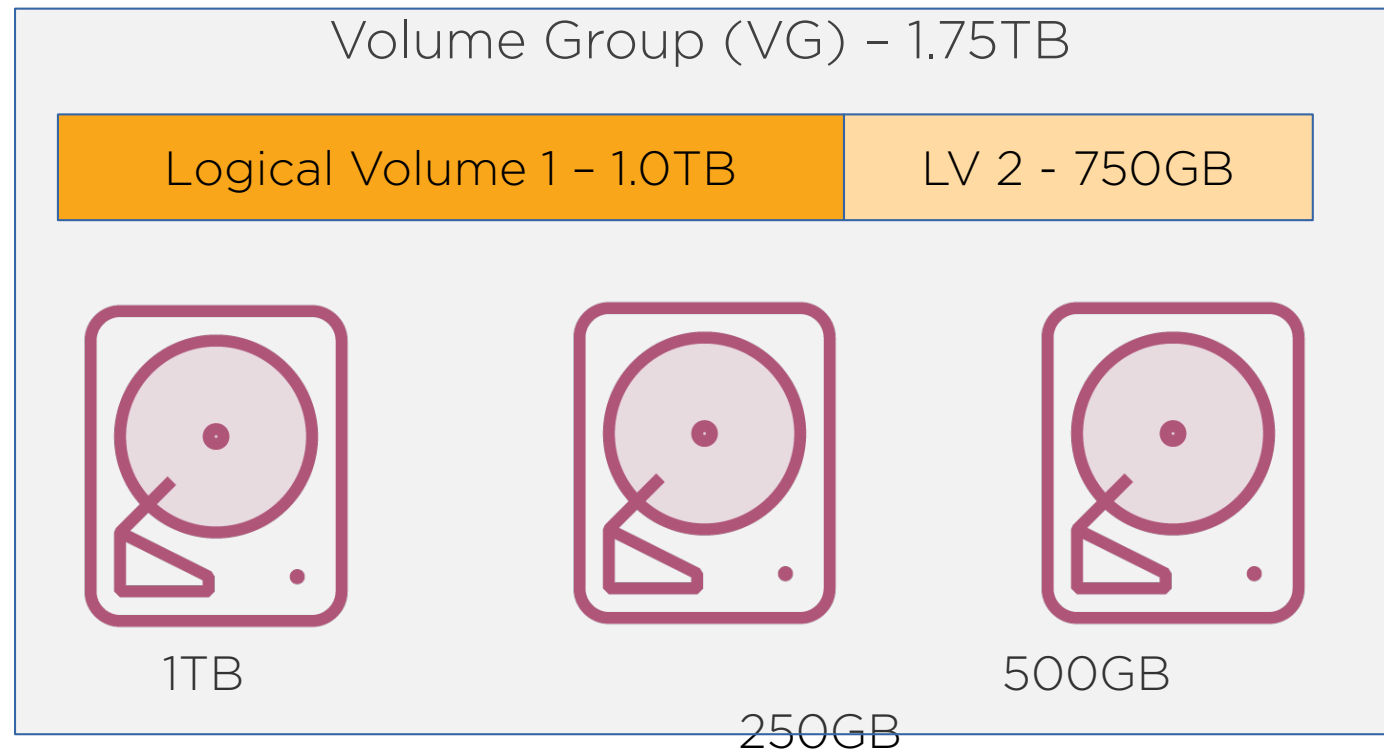




# Logical Volume Manager (LVM)



# Logical Volume Manager (LVM)



# Installing Ubuntu Desktop

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# Installing Scripted Instances

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# Review



# Review



## Managing scope

# Review



**Managing scope**

**Installation configuration**

# Review



**Managing scope**

**Installation configuration**

**Logical Volume Manager**



# Review



Managing scope

Installation configuration

Logical Volume Manager

Installing from Linux images

# Review



**Managing scope**

**Installation configuration**

**Logical Volume Manager**

**Installing from Linux images**

**Controlling the install process**

# Review



**Managing scope**

**Installation configuration**

**Logical Volume Manager**

**Installing from Linux images**

**Controlling the install process**

**AWS Elastic Beanstalk**

# Review



Managing scope

Installation configuration

Logical Volume Manager

Installing from Linux images

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AWS Elastic Beanstalk

Amazon Elastic Compute Cloud (EC2)

# Review



Managing scope

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Docker