

# Linux Essentials 1

03012020-Linux Essentials 1F

Training Clarusway

Pear Deck - February 29, 2020 at 11:44PM

## Part 1 - Summary

Use this space to summarize your thoughts on the lesson

## Part 2 - Responses

Slide 1



Linux Essentials



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Use this space to take notes:

## Slide 2

Draw or type 2 things you already know about Linux:

1

2



Students, draw anywhere on this slide!

Peer Deck Interactive Slide  
Do not remove this bar

## Your Response

Draw or type 2 things you already know about Linux:

1

Lang

2



Students, draw anywhere on this slide!

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Use this space to take notes:

## Slide 3

### Table of Contents



- ▶ Linux Evolution
- ▶ Major Open Source Applications
- ▶ Open-Source Software and Licensing
- ▶ Linux Installation

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Use this space to take notes:

Slide 4



Use this space to take notes:

Slide 5



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Slide 6

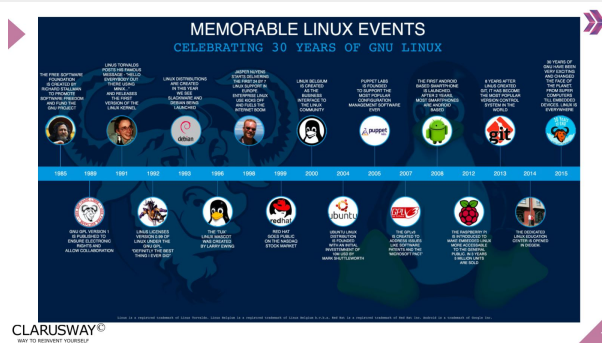


Link(s) on this slide:

- <http://www.youtube.com/watch?v=o8NPlzkFhE>

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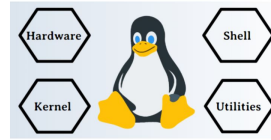
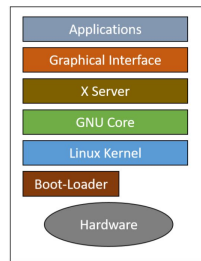
## Slide 7



Use this space to take notes:

## Slide 8

## ► Components of Linux



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## ► Popular Linux Distributions

- Debian
- Ubuntu
- Mint
- Manjaro
- openSUSE
- RedHat
- Fedora



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## Linux Embedded Systems

### Embedded System

An embedded system is a computer system that is dedicated to one or two specific functions.



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## Major Open Source Applications

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## ► Desktop Applications

- Firefox
- Thunderbird
- LibreOffice
- GIMP



LibreOffice



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## ► Server Applications

- Apache Web Server
- NGINX
- MySQL
- Samba
- ownCloud



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## Slide 14

## Your Response

Circle how you are feeling:



Students, draw anywhere on this slide!

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► Development Languages

Shell

Shell is a command language interpreter that executes commands read from the standard input device such as a keyboard or from a file.n as a "Bash shell script" (or "script").





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## ► Development Languages »

- C
- Java
- JavaScript
- Perl
- Python
- PHP



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## ► Package Management Tools »

- Contemporary distributions of Linux-based operating systems install software in pre-compiled packages, which are archives that contain binaries of software, configuration files, and information about dependencies.

- Dpkg
- apt-get
- rpm: Red Hat Package Manager
- yum: yellowdog updater modified



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Link(s) on this slide:

- <https://create.kahoot.it/details/combined-linux-essentials-1-2/7231debd-92b0-41d6-86a9-ca526eae6043>

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## Slide 19



## Open-Source Software and Licensing



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## Slide 20

## ► What is open-source



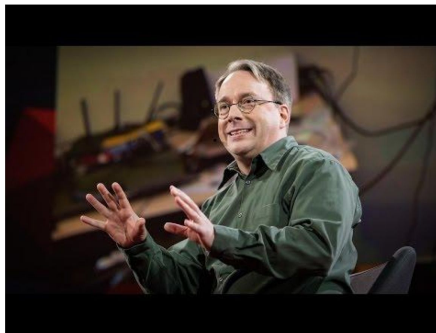
Open-source software is software with source code that anyone can inspect, modify, and enhance.

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Link(s) on this slide:

- <http://www.youtube.com/watch?v=o8NPIIzkFhE&t=133>

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## ► Open-source Licensing



Open source licenses are licenses that comply with the Open Source Definition — in brief, they allow the software to be freely used, modified, and shared. To be approved by the Open Source Initiative (also known as the OSI), a license must go through the Open Source Initiative's license review process.



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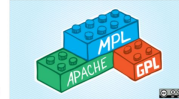
## ► Open-source Licensing



### Popular Licenses

The following OSI-approved licenses are popular, widely used, or have strong communities:

- Apache License 2.0
- BSD 3-Clause "New" or "Revised" license
- BSD 2-Clause "Simplified" or "FreeBSD" license
- GNU General Public License (GPL)
- GNU Library or "Lesser" General Public License (LGPL)
- MIT license
- Mozilla Public License 2.0
- Common Development and Distribution License
- Eclipse Public License version 2.0



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## ► FSF and OSI



### Free Software Foundation (FSF)

- The Free Software Foundation (FSF) is a nonprofit with a worldwide mission to promote computer user freedom.
- The FSF is working to secure freedom for computer users by promoting the development and use of free software and documentation.



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## ► FSF and OSI



### Open Source Initiative (OSI)

- The Open Source Initiative (OSI) is a non-profit organization dedicated to the promotion of open-source software.
- OSI was founded in 1998 by Bruce Perens and Eric Raymond..



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## Your Response

Summarize what you've just learned about open source and Linux:



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Students, write your response!

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► Kahoot!



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Link(s) on this slide:

- <https://create.kahoot.it/details/combined-linux-essentials-3-4/90cc9ea3-720d-47bf-a2dd-1c20f094b075>

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## Slide 28

## Linux Installation (LinuxZoo)



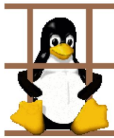
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## Linux Installation

- Step-1: Go to <https://linuxzoo.net/>  
Step-2: Register by filling in the registration form.  
Step-3: Login with your credentials.



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A screenshot of the LinuxZoo login page. The page has a title bar with 'Minimize' and a close button. The main content area contains a 'Login Details' section with fields for 'Email:' and 'Password:'. Below these fields is a 'Login / Account Links' section with a 'Refresh' button. A status bar at the bottom indicates 'NOT currently queued' and '0 user(s) ahead in queue'. A yellow box at the bottom contains the text: 'You must register and login before you can use a virtual machine'.

Link(s) on this slide:

- <https://linuxzoo.net/>

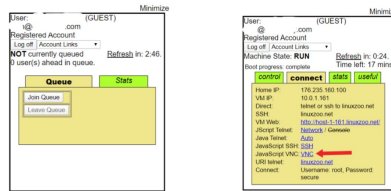
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### Slide 30

## Linux Installation

Step-4: Click "Join Queue" button

Step-5: After the boot progress is completed, click "Javascript VNC" on the "connect" tab



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Use this space to take notes:

## Slide 31

Use this space to take notes:

## Slide 32

## Your Response



Linux is easier than other Operating Systems:

The image shows an interactive poll interface. At the top, the text 'Linux is easier than other Operating Systems:' is displayed. Below this, there are two large circular buttons: a green one labeled 'Agree' and a red one labeled 'Disagree'. Each button has a small 'Peer Deck' logo at the bottom. The buttons are positioned on a grid of vertical lines. At the bottom left, there is a small icon of a person and the text 'Students, drag the icon!'. At the bottom right, there is a small blue dot and the text 'Peer Deck Interactive Slide'.

Students, drag the icon!

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**THANKS!**  
Any questions?



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