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DAY 03 | PART 1

What is Linux? History and Distributions

Meet Linux, its creator, and the families you will meet at work.

Kernel | Open source | Distributions

WHAT YOU WILL LEARN

What is Linux? History and Distributions

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1. Define an operating system and the kernel
2. Say who created Linux and when
3. Explain what open source means
4. Name popular distributions and their package tools

CORE IDEA

What is Linux?

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Operating system

The software that manages the CPU, memory and storage. Think of it as the manager of a building.

Kernel

The core of Linux. Code that talks to hardware. Open source: anyone can read, change and share the code.

Most servers run Linux

Web, cloud and databases mostly run Linux because it is stable, secure and free.

Linus Torvalds

Started the Linux kernel in 1991 as a student at the University of Helsinki, Finland.

Popular distributions

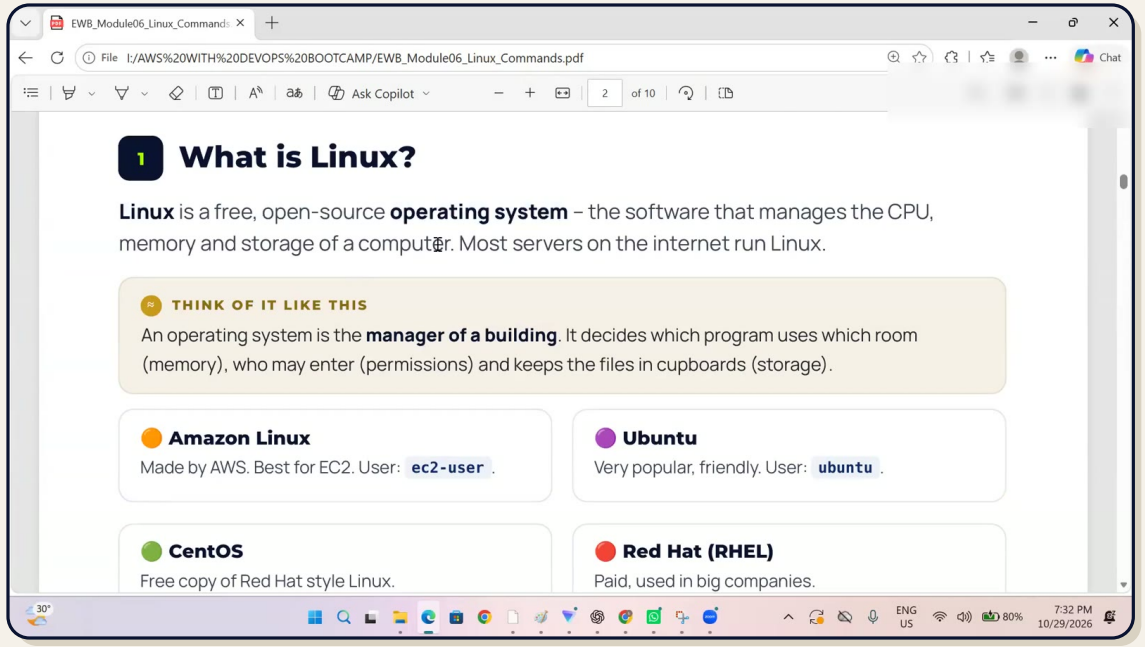
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DISTRIBUTION	KNOWN FOR	PACKAGE TOOL
Amazon Linux	Made by AWS, best for EC2. User: ec2-user	yum / dnf
Ubuntu	Very popular, beginner friendly. User: ubuntu	apt
CentOS / RHEL	Enterprise style. Red Hat is paid	yum / dnf
Fedora vs Debian	Fedora = newer features. Debian = very stable	dnf / apt

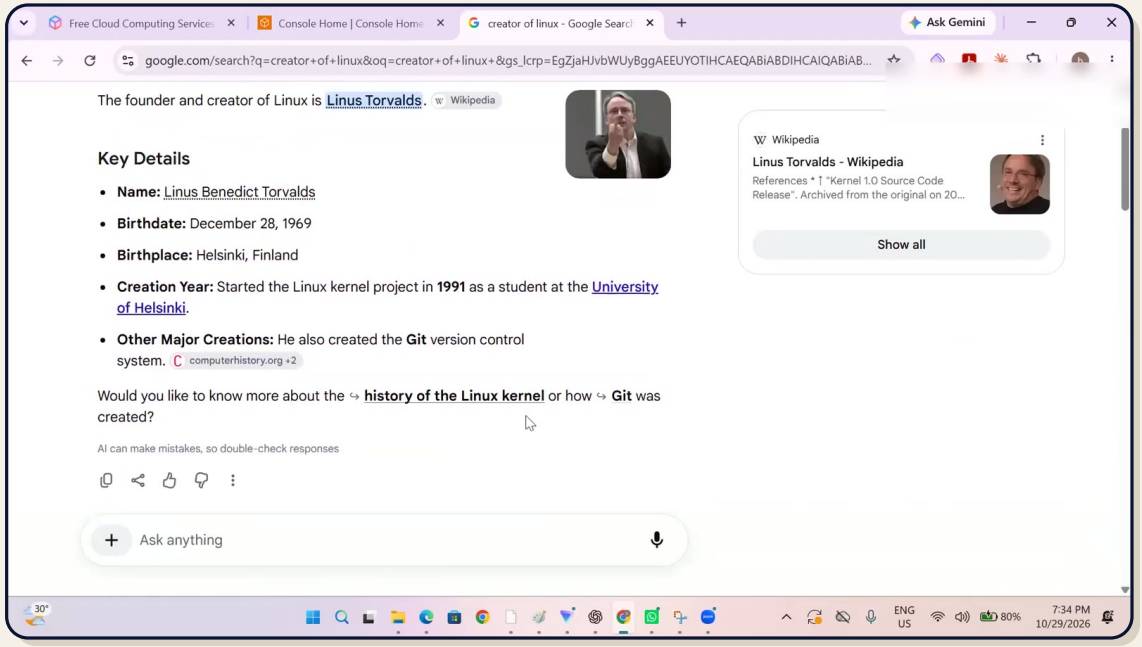
REMEMBER A distribution = Linux kernel + tools + package manager. Same kernel, different flavour.

FROM THE CLASS

Where Linux comes from



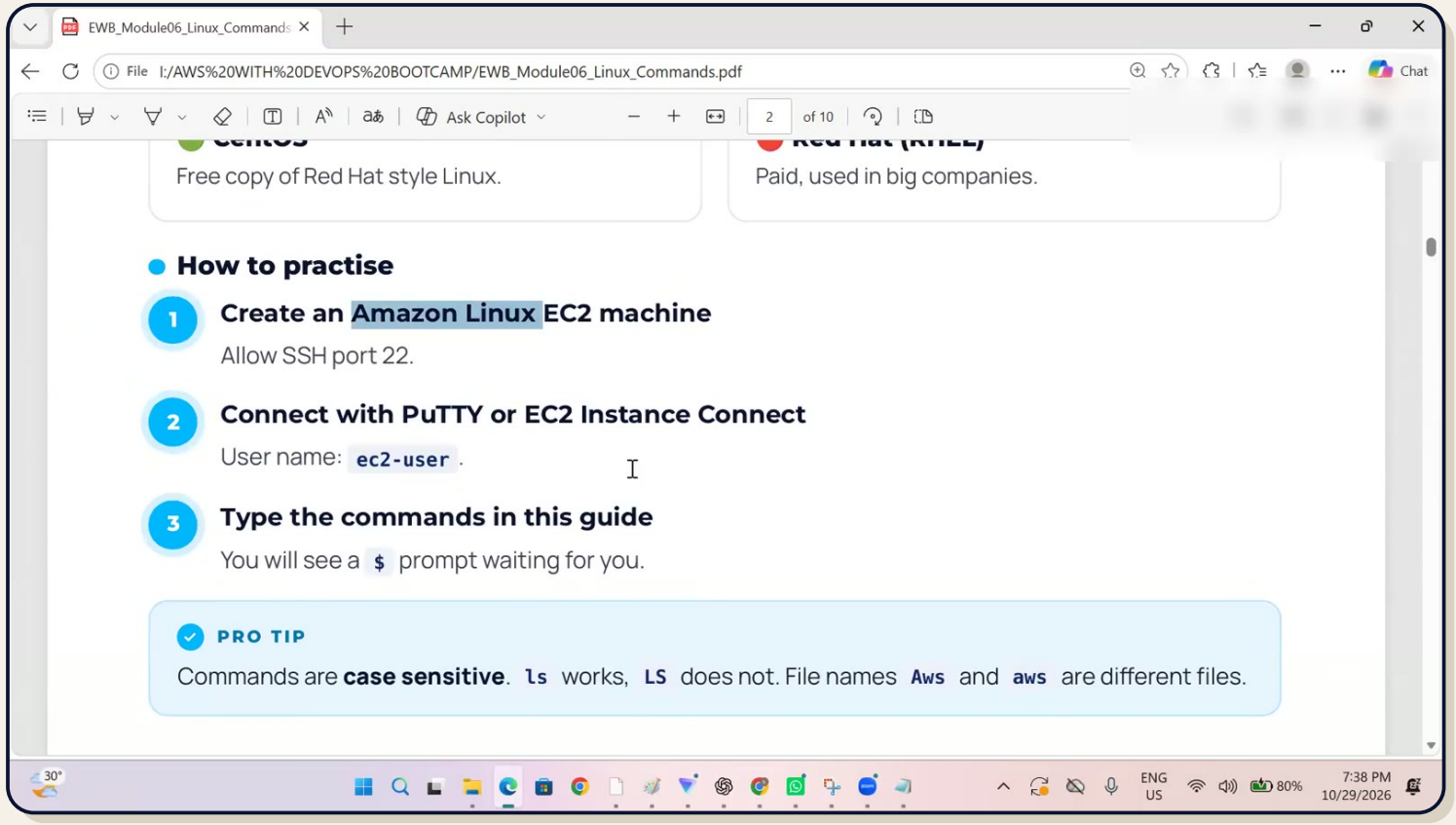
'What is Linux?' in the Day 3 notes



The founder and creator of Linux - Linus Torvalds

FROM THE CLASS

Why we study Linux first



A moment from the recording for this part.

Cloud = Linux

Most EC2 instances are Linux, so commands are a core DevOps skill.

Free and open

No licence cost - it is why startups love it.

QUICK RECAP

What to remember

- Linux = kernel + tools; open source
- Created by Linus Torvalds in 1991
- Amazon Linux user: ec2-user, Ubuntu user: ubuntu
- Package tools: yum/dnf (Red Hat family), apt (Debian family)

PRACTICE

Practice questions

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Q1 Who created Linux?

A. Bill Gates
B. Linus Torvalds
C. Steve Jobs
D. Elon Musk

Q2 What does 'open source' mean?

A. Free of cost only
B. Code anyone can read and change
C. Secret code
D. Cloud only

Q3 Default user on Amazon Linux?

A. ubuntu
B. root
C. ec2-user
D. admin

Q4 Which tool installs packages on Ubuntu?

A. yum
B. apt
C. msi
D. brew

Practice questions - answers

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Q1 Who created Linux?

Answer: B. Linus Torvalds

Linus Torvalds, 1991.

Q2 What does 'open source' mean?

Answer: B. Code anyone can read and change

The source code is open.

Q3 Default user on Amazon Linux?

Answer: C. ec2-user

ec2-user.

Q4 Which tool installs packages on Ubuntu?

Answer: B. apt

Ubuntu (Debian family) uses apt.