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IN GOD WE TRUST

Presentation Topic: Arch Linux
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spring 1403

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Introduction

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Why should we know about Arch Linux?

Let's rephrase our question a bit clearer: For whom does this presentation have the most utility?

Professionals with advanced knowledge in system usage

Individuals with various objectives in system usage

People who want to have control over all system details and personally configure setting

Those seeking access to the latest version



What is Arch Linux? >

A type of operating system accompanied by various distributions:

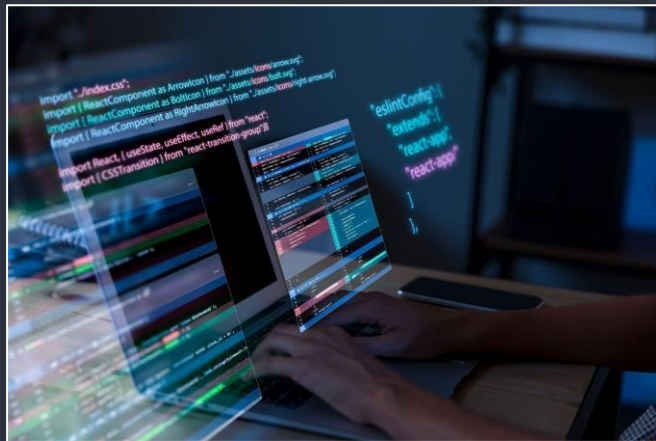
- An open-source, free, and independent distribution.
- Suitable for both desktop and server environments.
- Among GNU/Linux distributions.
- Characterized by a subtle and minimalist nature.
- Introduces the Do-It-Yourself (DIY) idea to provide sufficient freedom for user customization.
- Utilizes modernization methods and package manager management.



</ The history of Arch Linux:

- Developed in March 2002 by Judd Vinet.
- Inspired by minimalist distributions like CRUX, Slackware, BSD, PLD, and Linux.
- The first version was released on March 11, 2002.
- Project management changed hands in the years 2007 and 2020.

Arch Linux>



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Advantages & disadvantages

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> Advantages of Arch Linux

- Customizability
- New, up-to-date, and advanced technology
- Arch User Repository (AUR)
- Arch Wiki
- Caters to various objectives
- Opportunity to familiarize with practical Linux concepts



> Disadvantages of Arch Linux

1. Not suitable for users who are new to Linux
2. Complex and somewhat difficult installation process
3. Lack of complete certainty about the safety and updates of software in AUR



> Who can use Arch Linux?

- Individuals seeking to customize their system component by component
- Those who are technical and adept and want to utilize a professional environment



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Pacman

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</ What is Pacman and what is its function?

Pacman, a powerful and efficient tool for managing software packages.

Some of the main tasks of Pacman include:

- Installing programs
- Removing programs
- System updating
- Searching and displaying information
- Cleaning cache and unnecessary files



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Difference

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>/ The difference between Arch Linux and Ubuntu

- Arch Linux for advanced users **vs** Ubuntu for beginners.
- Installation and setup of Arch Linux require high-level expertise **vs** Installation and setup of Ubuntu is simpler and more user-friendly.
- Software updates in Arch Linux are continuous **vs** Ubuntu updates are based on a regular cycle.
- Installing software in Arch Linux is the user's responsibility **vs** Ubuntu has access to an official software repository.
- Arch Linux offers better and more efficient performance **vs** Ubuntu prioritizes ease of use and user-friendly operation for compatibility.



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Installation

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{How to install Arch Linux }

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Get/Modify the below options

```
> archinstall language English (100%)
Mirrors
Locales Defined
Disk configuration
Bootloader Grub
Swap True
Hostname archlinux
Root password
User account
Profile
Audio No audio server
Kernel linux
Additional packages
Network configuration Not configured, unavailable unless setup manually
Timezone UTC
Automatic time sync (NTP) True
Optional repositories

Save configuration
Install
Abort
(Press "/" to search)
```

(Press F2 to display)

```
Arch Linux 5.4.12-arch1-1 (tty1)
archlinux login: root (automatic login)

To install Arch Linux follow the installation guide:
https://wiki.archlinux.org/title/installation_guide

For Wi-Fi, authenticate to the wireless network using the iwd utility.
For mobile broadband (4G/LTE) modems, connect with the mmcli utility.
libnet, libm and other interfaces using libnet should work automatically.

After connecting to the Internet, the installation guide can be accessed
via the convenience script installation_guide
root@archlinux ~#
```

<https://archlinux.org/download/>

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Commands

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\> Some commands used in Arch Linux

Sudo pacman -Syu : update system

pacman -Q : Display installed programs

</ Resources

Data

- <https://archlinux.org>
- <https://fa.wikipedia.org>
- <https://asamserver.com>
- <https://maktabkhooneh.org>
- [Chat GPT](#)

Photos

- <https://digiato.com>
- <https://www.jeremymorgan.com>

Thanks for watching 😊

