

Module 1: Introduction to Garuda Linux

1.1 What is Garuda Linux?

Garuda Linux is a cutting-edge, performance-oriented Linux distribution based on Arch Linux. It features the Linux Zen kernel and a stunning visual experience using KDE Plasma (default), GNOME, XFCE, and more. It is optimized for gamers, developers, and power users.

1.2 Homepage and Download Link

- Homepage: <https://garudalinux.org>
 - Download: <https://garudalinux.org/downloads.html>
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Module 2: System Requirements

2.1 Minimum Requirements

- CPU: 64-bit (x86_64)
 - RAM: 4 GB (8 GB recommended)
 - Disk: 30 GB (SSD recommended for best performance)
 - GPU: NVIDIA/AMD/Intel with open drivers
 - USB: 4 GB+ USB Drive
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Module 3: Preparing Installation Media

3.1 Download the ISO

- Choose your preferred desktop environment (KDE Dragonized, GNOME, XFCE, etc.)

3.2 Create Bootable USB Drive

On Windows:

- Use Rufus: <https://rufus.ie>

On Linux/macOS:

```
sudo dd if=garuda.iso of=/dev/sdX bs=4M status=progress && sync
```

3.3 BIOS/UEFI Settings

- Enable USB boot
 - Disable Secure Boot (Garuda recommends this)
 - Set USB as first boot device
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Module 4: Live Session and Testing

4.1 Boot into Live Environment

- Plug USB and reboot
- Select "Boot with Open Source Drivers" (or proprietary if needed)

4.2 Explore Garuda Features

- Test network, sound, graphics
 - Try tools like Garuda Welcome, Btrfs Assistant, Garuda Gamer
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Module 5: Installation Process

5.1 Launch Installer

- Click on "Install Garuda Linux" from desktop

5.2 Set Language and Region

5.3 Keyboard Layout

5.4 Disk Partitioning

Option 1: Erase Disk (Auto)

- Uses Btrfs with subvolume layout

Option 2: Manual Partitioning

- `/boot/efi` (if UEFI) - 512MB FAT32
- `/` root - Btrfs - 30GB+
- `swap` - optional (or zram is used by default)

5.5 Create User

- Set username, password, hostname

5.6 Start Installation

- Click install and wait for process to complete
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Module 6: First Boot and Post-Install Steps

6.1 Remove USB and Reboot

6.2 Update System

```
sudo pacman -Syu
```

6.3 Use Garuda Assistant

- Perform tweaks, driver installs, maintenance tasks

6.4 Install Extra Software

```
sudo pacman -S firefox vlc steam
```

Module 7: Best Use Cases of Garuda Linux

7.1 Gaming

- Built-in Steam, Wine, Proton, GameMode

7.2 Developers

- Out-of-the-box support for editors, Git, compilers

7.3 Desktop Enthusiasts

- Eye-candy with KDE Dragonized and animations

7.4 Rolling Release Lovers

- Always up-to-date with Arch base and Zen kernel
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Module 8: System Maintenance and Tools

8.1 Updating

```
sudo pacman -Syu
```

8.2 Snapshots with Timeshift

- Integrated with Btrfs automatic snapshots

8.3 Garuda Tools

- Garuda Assistant, Garuda Gamer, Btrfs Assistant
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Course Summary

 You've learned:

- How to install and configure Garuda Linux
- How to use built-in tools for gaming, development, maintenance
- How to optimize and update your system regularly

 Download Garuda: <https://garudalinux.org/downloads.html>

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