Introduction to KYGnus openNAS

This project is part of the oldup project, which tries to bring old computers back to life cycle

In the era of technology, we progress rapidly, but optimization and sustainable use of old computer devices can also be an effective solution to prevent consumerism and waste of capital. In its first phase, this project tries to use various solutions and strategies to optimize and transform old computer devices into sustainable and efficient resources.

Key Features and Capabilities

1 **Increase Useful Life**

Optimize old devices to extend their lifespan and reduce the need for constant upgrades.

2 **Reduced Viability**

Sustain use of old devices to minimize electronic waste and environmental impact.

3 **Energy Savings**

Optimize old devices to improve energy efficiency and reduce fossil fuel consumption.

4 **Managerial Economics**

Leverage old devices as an effective cost-saving strategy and preserve financial capital.

5 **Technical Skills**

Upgrade and optimize old devices to strengthen technical skills and engagement with technology.

6 **Reduce Tech Poverty**

Enable wider access to technology by sustaining the use of old computer devices.

7 **Economic Sustainability**

Provide technological needs on a sustainable basis by using old devices.

The benefits of this installation project to FreeNAS

OS

You can install your favorite operating system and then launch this software and service.

No need for serious changes in the system

If you have Linux on the previous system, you can start this system without erasing the data

Light and Optimal

This system is more optimal than FreeNAS because of the packages used

User Friendly

You basically have a PC or Laptop system that you can use for daily work if needed

Security

You can secure your system by using Linux security tools

Tested OS

1 — **openSUSE Leap 15.4 & 15.5**

We recommend using OpenSUSE for the operating system because it is stable and has a strong professional community. This topic is also a bit silly

2 — **Fedora 35**

3 — **Lubuntu 22.04**

User Interface and Management

GUI

python-Flask

The software has a web-based GUI developed with Python and Flask.

CommandLine

The command line version of Tuzi software has been developed so that you don't need to save the command line. You just have to select the options you want

KYGNUS

Data Protection and Backup

RAID Configuration

Secure your data with redundant RAID storage options, ensuring fault tolerance and data resilience.

RAID 0 and RAID1 supported

Tar

The tar command is a powerful tool for creating backups, archiving files, and compressing data in Unix/Linux systems

1 **2** **3**

Zip

The zip command in Unix/Linux is used to package and compress files into a ZIP archive. ZIP is a common file format that supports lossless data compression
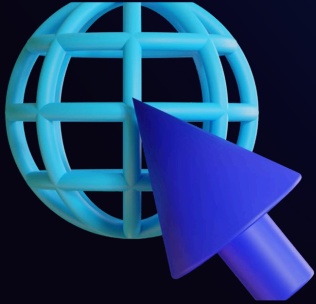
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Conclusion and Availability

This project is a step where you can easily use your old systems and easily return them to the life cycle.

About

Website

GitHub

View my code and projects on **GitHub**

GitLab

Connect with me on **GitLab**

GitBook

Check out my technical writing on **GitBook**

https://kooshayeganeh.github.io/

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