UsageProve

UsageProve is a resource utilization tool for Ubuntu-based distributions. It provides information and statistics on memory, processor, storage, and network utilization. The tool is written in Python and offers both CLI (Command-Line Interface) and GUI (Graphical User Interface) versions.

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Features

- **Resource Utilization Monitoring**: UsageProve tracks the utilization of system resources, including memory, processor, storage, and network, providing real-time statistics.

- **Graphical Representation**: The tool generates graphical representations of the resource utilization data, making it easier to analyze and interpret the results.

- **CLI and GUI Versions**: UsageProve offers both a CLI version for command-line usage and a GUI version with a user-friendly interface.

Requirements

To use UsageProve, ensure that you have the following dependencies installed:

- Ubuntu-based distribution
- Python 3.x
- `csv` module
- `matplotlib` module
- `numpy` module

Installation

To install and set up UsageProve, follow these steps:

1. Download the UsageProve repository from Github

   https://github.com/yuganshgarg97/UsageProve.git

2. Install the required Python modules by executing the following command:

   ```shell
   shell
   ```

- `pip3 install -r requirements.txt`

- Run the setup script according to your preference:

- For CLI mode, execute `setup_cli.sh`:

    shell

- `./setup_cli.sh`

- For GUI mode, execute `setup_gui.sh`:

shell

- `./setup_gui.sh`

These setup scripts will handle the installation of any necessary dependencies.

Usage

UsageProve can be used in either CLI or GUI mode. Follow the instructions below for each mode:

CLI Mode

1. Open a terminal and navigate to the UsageProve directory.

2. Run the following command to start the resource utilization monitoring:

    shell

2. `./run_cli.sh`

3. The CLI interface will display the real-time statistics of memory, processor, storage, and network utilization.

GUI Mode

1. Open a terminal and navigate to the UsageProve directory.

2. Execute the following command to launch the GUI version:

    shell

2. `./run_gui.sh`

3. The GUI interface will open, providing visual representations of the resource utilization data.

Accessing Results

If you are using the CLI version on a machine with a web portal, the results will be displayed on the web portal. Access the results using the IP address of the machine.

Contributing

Contributions to UsageProve are always welcome! If you have any issues, suggestions, or feature requests, please submit them via GitHub issues or open a pull request.