



OPEN SOURCE ENGINEERING

Student ID: 2400031822

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Under the guidance of

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1 Understanding the Core Ubuntu Linux Distribution

1.0.1 1. Overview and Philosophy

Ubuntu is a powerful, free, and open-source operating system built upon the stable foundation of Debian Linux. It stands as the world's most popular Linux distribution for desktop use, successfully blending cutting-edge features with unparalleled user-friendliness. Developed and maintained by Canonical Ltd., Ubuntu's guiding principle is "Linux for human beings." This philosophy drives its commitment to accessibility, stability, and providing an intuitive computing experience for everyone, from novice users to seasoned developers.

1.0.2 2. The Desktop Experience (GNOME)

The standard Ubuntu desktop utilizes the **GNOME** desktop environment, which presents a modern, clean, and highly efficient graphical interface. The key design elements include a permanent dock (launcher) on the left side for quick access to essential applications, and the **Activities Overview**. This view, easily accessed by pressing the Super (Windows) key, provides a centralized hub for managing all open windows, workspaces, and system-wide searching. This streamlined workflow makes Ubuntu feel contemporary and ensures high productivity. Furthermore, Ubuntu is recognized for its strong, out-of-the-box hardware detection and compatibility, simplifying the setup process for most users.

1.0.3 3. Software Management and Packaging

Ubuntu employs a robust dual-system for software management. The traditional and reliable **Advanced Packaging Tool (APT)** manages **DEB** packages, handling core system utilities and standard applications sourced from official repositories. Complementing this is the use of **Snaps**, a modern, containerized package format pioneered by Canonical. Snaps bundle an application with all its required dependencies, guaranteeing consistent performance across different Ubuntu versions. Crucially, Snaps run in a **sandboxed** environment, isolating them from the rest of the operating system to significantly enhance overall application security. This flexibility ensures users have access to a vast, up-to-date, and secure software library.

2 Encryption and GPG

2.1 Types of Encryption in Ubuntu

Ubuntu offers two primary approaches to encryption: **Full Disk Encryption (FDE)** and **File/Directory Encryption**.

2.1.1 1. Full Disk Encryption (FDE)

- **What it is:** FDE encrypts the entire hard drive or a large partition, including the operating system files, swap space, and user directories.
- **How it works:** Ubuntu uses **LUKS** (Linux Unified Key Setup) for FDE. When the system boots, you are prompted for a **passphrase**. If correct, LUKS decrypts the entire drive, and the decryption process runs transparently in the background while the system is in use.
- **Purpose:** The primary defense against data loss due to **theft** or **physical access** to the computer when it is turned off. If someone steals the hard drive, the data is useless without the LUKS passphrase.
- **Implementation:** FDE is typically enabled during the Ubuntu installation process by selecting the "Encrypt the new Ubuntu installation" option. It's much more difficult to enable after installation.

2.1.2 2. File and Directory Encryption

- **What it is:** This method encrypts specific files, directories, or messages, offering granular control over which data is protected.
- **Tools:**
 - **GPG (GNU Privacy Guard):** The standard, used for encrypting individual files and especially for secure communication using **public-key cryptography**.
 - **eCryptfs (older):** Previously used for encrypting the user's Home directory, but has been largely phased out for FDE.

2.2 GPG (GNU Privacy Guard) Explained

GPG is the GNU implementation of the **OpenPGP** standard (originally Pretty Good Privacy - PGP). It is essential for protecting individual files and ensuring secure, authenticated communication.

2.2.1 1. Core GPG Concepts

GPG relies on **asymmetric cryptography**, which uses a pair of mathematically linked keys:

- **Public Key:** This key is shared with everyone. It can be used to **encrypt** a message that only you can read, or to **verify** a signature you created.
- **Private (Secret) Key:** This key is kept **secret** and is protected by a strong passphrase. It is used to **decrypt** messages sent to you, or to **digitally sign** files to prove they came from you.

2.2.2 2. Basic GPG Command-Line Usage

GPG is usually pre-installed on Ubuntu and is primarily used through the command line (Terminal).

A. Generating a Key Pair The first step is to create your public and private key pair:

Bash

```
gpg --full-generate-key
```

You will be prompted to select the key type (RSA and RSA is common), keysize (4096 is recommended), expiration date, and your Real Name, Email, and a strong **passphrase** to protect your private key.

B. Encrypting a File for Yourself (Symmetric Encryption) To quickly encrypt a file using a single passphrase (like a standard password), use symmetric encryption:

Bash

```
gpg -c myfile.txt
```

This command will prompt you for a passphrase and create an encrypted file named `myfile.txt.gpg`.

C. Encrypting a File for Someone Else (Asymmetric Encryption) To securely send a file, you must use the recipient's **Public Key** (which you must have previously imported into your keyring with `gpg --import`):

Bash

```
gpg --encrypt --recipient "recipient@example.com" mysecretfile.doc
```

This creates `mysecretfile.doc.gpg`. Only the recipient, who holds the corresponding Private Key, can decrypt it.

D. Decrypting a File To decrypt a file that was encrypted for you:

Bash

```
gpg --decrypt mysecretfile.doc.gpg
```

You will be prompted for the passphrase that protects your Private Key. You can use the `--output` option to specify the decrypted

3 Sending Encrypted Email

3.1 Prerequisite: Setting Up GPG

Before you can send or receive encrypted mail, both you and your recipient must have GPG keys set up and exchanged:

1. **Generate Keys:** Both parties must have generated a public/private key pair using GPG (as discussed previously, using `gpg --full-generate-key`).
2. **Exchange Public Keys:** You need the recipient's **Public Key**, and they need your Public Key. You can exchange these by:
 - **Exporting** the key: `gpg --armor --export 'Recipient Name' > recipient_key.asc` and sending the `.asc` file.
 - **Uploading** the key to a public key server.
3. **Import Key:** You must import the recipient's key into your GPG keyring: `gpg --import recipient_key.asc`.

3.2 Sending the Encrypted Email

The most common and user-friendly way to send GPG-encrypted emails on Ubuntu is by using **Mozilla Thunderbird** with the **Enigmail** add-on (or its built-in equivalent in modern versions of Thunderbird).

3.2.1 1. Compose the Message

- **Open Thunderbird** and start composing a new email.
- Write your message as usual.

3.2.2 2. Encryption and Signing

You will use the GPG function built into the mail client to perform two critical steps:

1. **Encryption:** You must encrypt the email using the **recipient's Public Key**. Only their corresponding **Private Key** can decrypt it. If you have multiple recipients, you must encrypt the message using the Public Key of *every single recipient*.
2. **Digital Signature:** You **sign** the email using **your Private Key**. This allows the recipient to verify that the email truly came from you and has not been tampered with in transit.

In Thunderbird, this is typically done by clicking a dedicated **OpenPGP or Security** menu or button within the compose window and ensuring both the "**Encrypt**" and "**Sign**" options are checked.

3.2.3 3. Verification and Sending

- The client will check that you have the required **Public Key** for the recipient(s). If a key is missing, it will warn you.
- When you click **Send**, Thunderbird uses GPG to encrypt the message body and attach your digital signature before transmitting the scrambled data.

3.2.4 4. Recipient's Experience (Decryption)

1. The recipient receives the scrambled email.
2. Their email client automatically uses their **Private Key** (protected by their passphrase) to decrypt the message contents, revealing the original text.
3. Their client simultaneously uses your **Public Key** to verify the digital signature, confirming the email's authenticity.

4 Privacy Tools From Prism Break

4.0.1 1. Tor Browser (Web Browsers / Anonymizing Networks)

- **What it is:** A web browser built on Firefox that routes your internet traffic through the Tor network, a volunteer-operated network of relays.
- **Privacy Focus:** Provides **strong anonymity** by obscuring your IP address and location from the websites you visit. It also includes anti-fingerprinting measures.

- **PRISM Break Note:** PRISM Break strongly recommends using Tor Browser for all web surfing when maximum anonymity is required.

4.0.2 2. Debian (Operating Systems)

- **What it is:** A popular and highly ethical GNU/Linux distribution known for its strict adherence to Free Software principles and ethical manifesto.
- **Privacy Focus:** Unlike proprietary operating systems like Windows and macOS (which PRISM Break generally avoids), Debian is fully open-source, allowing for audits. It has a long tradition of software freedom and transparency.
- **PRISM Break Note:** It's recommended as a top GNU/Linux choice for users transitioning from proprietary systems, highlighting its commitment to free software and its stable nature.

4.0.3 3. Thunderbird (Email Clients)

- **What it is:** A free, open-source, and cross-platform email client developed by Mozilla.
- **Privacy Focus:** Thunderbird is the top choice for desktop email due to its open-source nature and its long-standing **native support for OpenPGP** (GPG) encryption and digital signatures. This allows users to easily encrypt and authenticate their emails end-to-end.
- **PRISM Break Note:** It is highly recommended for securely managing email with built-in PGP features.

4.0.4 4. KeePassXC (Password Managers)

- **What it is:** A free, open-source, and cross-platform password manager.
- **Privacy Focus:** It stores all your passwords in a single, highly encrypted database file that is stored **locally** on your device, giving you total control over your sensitive data. It does not rely on a cloud service.
- **PRISM Break Note:** It is preferred for its strong encryption, open-source license, and local-only storage, minimizing exposure to third-party services.

4.0.5 5. Firefox (Web Browsers)

- **What it is:** A fast, flexible, and secure web browser developed by the non-profit Mozilla Foundation.

- **Privacy Focus:** Firefox is open-source and provides extensive privacy controls, including enhanced tracking protection (ETP), container technology, and a robust add-on ecosystem for further hardening security (like uBlock Origin).
- **PRISM Break Note:** While Tor Browser is for anonymity, Firefox is the recommended alternative for general web use when a site doesn't work well with Tor, provided the user configures its settings and replaces the default search engine with a privacy-focused one.

5 Open Source License

Certainly. Here is the information about the **MIT License** organized into clear, descriptive headings, strictly maintaining a paragraph-only format within each section.

5.1 The Core Purpose and Classification

The MIT License is renowned as one of the most permissive and concise open-source licenses currently in use. Originating from the Massachusetts Institute of Technology, its primary goal is to encourage maximum adoption and reuse of software with minimal legal friction. It is formally classified as a **permissive license**, meaning it grants users broad rights to use, modify, and distribute the software without imposing the reciprocal sharing obligations seen in copyleft licenses, such as the GNU General Public License (GPL). This makes the MIT License highly favorable for both commercial enterprises and proprietary software development.

5.2 Granted Rights and Permissions

The license grants blanket permission to any individual or entity obtaining a copy of the software and its associated documentation to deal with the Software without restriction. Specifically, users are granted explicit rights to **use, copy, modify, merge, publish, distribute, sublicense, and/or sell** copies of the software. This expansive grant allows developers to incorporate MIT-licensed code into projects that may ultimately be closed-source and sold commercially, provided they meet the few mandated conditions.

5.3 The Only Two Conditions for Distribution

Unlike licenses that enforce reciprocal sharing, the MIT License has only two critical requirements that must be met when the software is distributed or included in a larger work. The first condition is the mandatory inclusion of the original **Copyright Notice** (e.g., Copyright <YEAR> <COPYRIGHT HOLDER>).

The second is the mandatory inclusion of the full **License Text** itself. If these two simple requirements are satisfied, the user can otherwise treat the code as they wish, including releasing their modifications under a proprietary license.

5.4 Disclaimer of Warranty and Liability

A key component of the MIT License is its comprehensive liability disclaimer, which serves to protect the original authors. The license emphatically states that the software is provided "**AS IS**," meaning it comes without any guarantee or warranty of any kind, whether express or implied, including warranties of merchantability or fitness for a particular purpose. Furthermore, the license explicitly protects the authors and copyright holders, asserting they **shall not be held liable** for any claim, damages, or other liability arising from the use or other dealings in the software. This places the entire risk associated with the software onto the end-user.

6 Self Hosted Server

6.1 About

ChitChatter is a theoretical model of a decentralized communication system that supports text messaging, audio/video calling, and file transmission using modern encryption and peer-to-peer communication protocols. It is licensed under **GPL 2.0**, emphasizing transparency and user control over data.

6.1.1 Key Features

6.1.2 Key Features

- **Communication Security Theory:** Based on a Zero-Trust Security Model where neither server nor intermediaries can access user data. Theoretical protections include: End-to-End Encryption, Asymmetric + Symmetric Cryptography, and Perfect Forward Secrecy.
- **Peer-to-Peer Media Transmission Theory:** Audio/video communication is theoretically enabled via WebRTC:
 - STUN servers → help discover public endpoints
 - TURN servers → relay encrypted media only if P2P fails
 - DTLS-SRTP → encrypts audio/video streams
- **Real-Time Messaging Theory:** Messaging relies on:

- WebSocket protocol → continuous low-latency communication
 - Encrypted payload transport over TLS
 - Client-side storage → reduces server exposure
- **Power User Tools:** Advanced Markdown editor, efficient shortcuts, and seamless multitasking.
 - **Secure Access:** Single Sign-On (SSO) via Google, GitHub, and Microsoft.
 - **Realtime Updates:** Collaboration changes update instantly without page reloads.

6.2 Installation Process (Docker Compose)

The recommended and easiest method for self-hosting **CHITCHATTER** is by utilizing , The installation of ChitChatter theoretically involves preparing a secure runtime environment by setting up required software such as Node.js and encrypted web hosting, obtaining the application source through a trusted version-controlled repository to ensure code integrity, resolving cryptographic and networking dependencies required for real-time communication, configuring environment variables to establish secure HTTPS transport and WebRTC connectivity through TURN/STUN services, executing the server to initialize encrypted signaling channels and identity-based authentication, and deploying through secure reverse proxies with TLS certificates so that the system maintains confidentiality, integrity, low-latency availability, and complete data sovereignty, thereby making the installation process itself a fundamental part of the platform's overall privacy-focused security architecture.

CHITCHATTER

Translated Document

Chitchatter GPL 2.0 License



EXPERIENTIAL LEARNING & GLOBAL ENGAGEMENT

Connect with your world

CHITCHATTER APPLICATION

Secure messaging, video calls, and file sharing made easy

- Exclusive one-on-one chats
- Secure and seamless video calls
- Encrypted file sharing for peace of mind
- Intuitive and sleek interface
- Lightning-fast, reliable messaging

L. Chakresh 2400030347
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7 Open Source Contribution

7.1 PR 1 : First Contribution

7.1.1 Goal

The project's objective is to simplify the standard open-source contribution workflow, allowing beginners to easily add their name to the project's `Contributors.md` file.

7.1.2 The Contribution Workflow

The tutorial details the standard `fork - clone - edit - pull request` sequence, essential for collaborative coding.

7.1.3 1. Setup

- **Fork:** Create a copy of the repository in your personal GitHub account.
- **Clone:** Download the forked repository to your local machine using the `git clone` command and the SSH URL.
- **Prerequisites:** Ensure **Git** is installed; alternatives for users uncomfortable with the command line (GUI tools) are provided.

7.1.4 2. Making Changes

- **Branch:** Create a new isolated branch for your changes using `git switch -c your-new-branch-name`.
- **Edit:** Add your name to the `Contributors.md` file using a text editor.
- **Commit:** Stage the changes with `git add Contributors.md` and save them locally with `git commit -m "Add your-name to Contributors list"`.

7.1.5 3. Submission

- **Push:** Upload your local branch to your GitHub fork using `git push -u origin your-branch-name`.
- **Pull Request (PR):** Go to your GitHub repository and submit a PR via the "Compare & pull request" button for review by the project maintainers.

Figure 1: Enter Caption

7.1.6 Difficulties and Solutions

The guide anticipates and solves two common beginner issues:

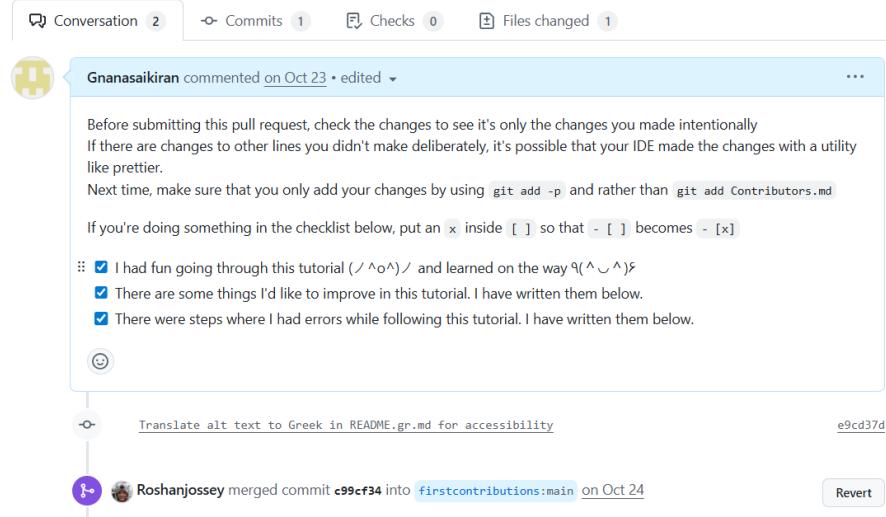
- **Old Git Version:** If the `git switch` command fails, use the older command: `git checkout -b your-new-branch`.
- **Authentication Error:** If `git push` fails due to GitHub removing password support, the solution is to configure an **SSH key** or a **Personal Access Token** and ensure your remote URL is set to the **SSH protocol** (`git remote set-url origin git@github.com:....`).

7.1.7 Next Steps

Upon merging the PR, the user is encouraged to celebrate their first contribution and seek out other beginner-friendly issues on the project list.

Translate alt text to Greek in README.gr.md for accessibility

 Merged Roshanjossey merged 1 commit into [firstcontributions:main](#) from [Gnanasaikiran:fix-alt-text-gr](#)  on Oct 24



Conversation 2 Commits 1 Checks 0 Files changed 1

Gnanasaikiran commented on Oct 23 • edited

Before submitting this pull request, check the changes to see it's only the changes you made intentionally. If there are changes to other lines you didn't make deliberately, it's possible that your IDE made the changes with a utility like prettier. Next time, make sure that you only add your changes by using `git add -p` and rather than `git add Contributors.md`. If you're doing something in the checklist below, put an `x` inside `[]` so that `- []` becomes `- [x]`

⋮ I had fun going through this tutorial (/^o^)/ and learned on the way ^(^o^)^
 There are some things I'd like to improve in this tutorial. I have written them below.
 There were steps where I had errors while following this tutorial. I have written them below.

Translate alt text to Greek in README.gr.md for accessibility e9cd37d

Roshanjossey merged commit [c99cf34](#) into [firstcontributions:main](#) on Oct 24 Revert

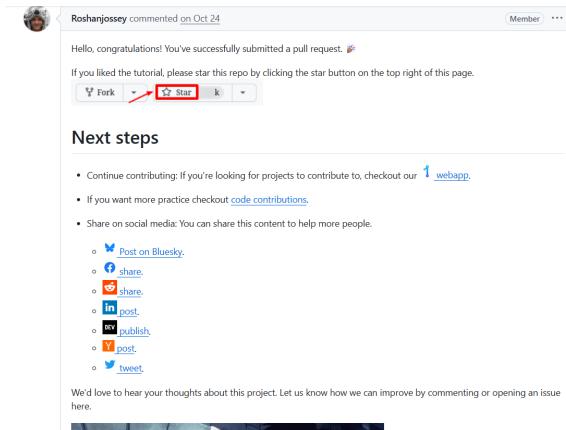


Figure 2: Enter Caption

7.2 PR 2 : Puter

Puter is an advanced, free, and open-source platform, effectively functioning as an "Internet OS" that is both exceptionally fast and highly extensible. It is designed to serve multiple critical roles: primarily as a privacy-first **personal cloud** for securely keeping all user files, apps, and games accessible from anywhere; as a robust platform for building and publishing websites and web applications; and as a versatile **remote desktop environment** for managing servers and workstations. It is positioned as a powerful, feature-rich alternative to services like Dropbox and Google Drive, built on principles of open-source transparency.

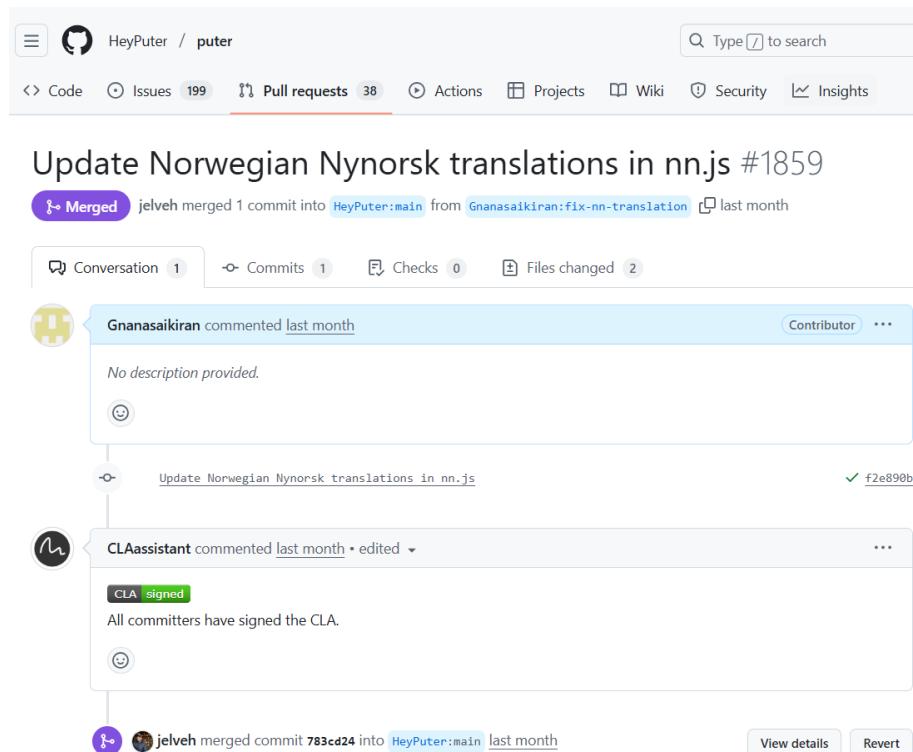
7.2.1 Licensing and Self-Hosting Options

The entire Puter project is distributed under the **AGPL-3.0 license**. This license is highly protective, requiring that any individual or entity who runs the modified software over a network must make the corresponding source code publicly available. For deployment, the project strongly emphasizes self-hosting, providing detailed instructions for several methods: **Local Development** using Node.js (version 20.19.5+ is required) for immediate testing, and easy, reliable deployment using **Docker** or **Docker Compose** on Linux, macOS, and Windows systems. Users require a minimum of 2GB of RAM to run the system smoothly. For immediate access without self-hosting, a live hosted version is also available at Puter.com.

Figure 3: Enter Caption

7.2.2 Community and Support

Puter maintains a strong connection with its community through various channels for support and contribution. Users can engage directly with maintainers via Discord, Reddit, and X (Twitter). For technical issues, the community is encouraged to report bugs or request features by opening an issue on the project's repository. Specific security concerns can be privately addressed by emailing security@puter.com, ensuring a responsive and accountable support structure.



7.3 PR 3 : Y24 Open Source Engineering

7.3.1 Introduction and Purpose

CHITCHATTER is a modern ChitChatter is a self-hosted, zero-trust, encrypted real-time communication system that enables secure messaging, video calling, and file sharing by using cryptographic key-pair based identity, end-to-end encryption through

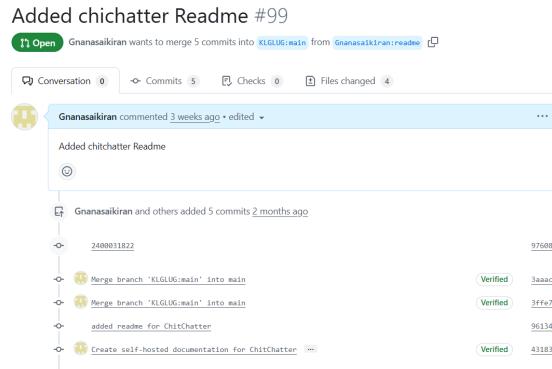


Figure 4: Enter Caption

asymmetric key exchange and symmetric data protection, peer-to-peer transmission of audio, video, and data using WebRTC with DTLS-SRTP, WebSocket-based signaling for low-latency text communication, chunk-based encrypted file transfer with integrity verification, minimal metadata handling to avoid surveillance, and a deployment architecture that relies on HTTPS, TURN/STUN servers, and controllable local

7.3.2 Technical Components

Client Interface (Frontend Layer) Signaling Server (Backend Layer) Encryption and Key Management Module WebRTC Media Engine File Transfer System or HTTPS Reverse Proxy (Optional Production Deployment)

7.3.3 Operation and Usage

ChitChatter operates through a secure web interface where users authenticate and exchange keys locally for identity protection. Text messaging is performed through encrypted WebSocket channels for real-time and private communication. Audio and video calls are initiated using the WebRTC framework, ensuring peer-to-peer media flow without server interception. Users can securely share files, which are encrypted into chunks and integrity-verified before delivery.

7.4 PR 4: GRADLE

Here is a short description of the Pull Request, organized into paragraphs with headings.

7.4.1 The Core Problem

The existing daemon log cleanup mechanism lacked essential operational feedback and adaptability, leading to inefficiencies in system maintenance workflows. During cleanup execution, users were not provided with any visible indication of progress, causing uncertainty about operational status, especially when handling large or fragmented log directories. Additionally, the cleanup behavior was rigidly embedded in the daemon's runtime logic without support for configurable parameters, forcing every environment to rely on a single predefined cleanup strategy.

From a build and deployment standpoint, the cleanup procedure could not be selectively controlled or optimized. This limitation created unnecessary overhead in environments where logs must be preserved longer for debugging or compliance purposes. Moreover, the absence of build-time options restricted system administrators from tailoring cleanup behavior to different operational pipelines, such as production monitoring, CI/CD optimization, or development diagnostics.

As a result, the log cleanup system suffered from poor usability, reduced operational transparency, and limited adaptability across varied deployment environments. This lack of configurability, feedback, and build-operational control formed the core issue that the improvement aims to resolve.

7.4.2 The Solution: Selective Installation and Universal Activation

The solution improves the daemon log cleanup system by introducing operational transparency, configurable behavior, and build-time controls. First, progress reporting is added to ensure real-time visibility during the cleanup process. This enhancement enables users and administrators to monitor ongoing operations and accurately estimate the time required for cleanup, especially when dealing with large amounts of log data.

Next, configurable cleanup parameters are introduced, allowing system maintainers to tailor the cleanup process to different operational requirements. Administrators may now adjust cleanup frequency, retention policies, and log directory scope according to the demands of development, testing, or production environments. This flexibility ensures that logs required for debugging or compliance are not prematurely deleted.

Additionally, build-time options are implemented to selectively enable or disable cleanup operations based on deployment needs. This reduces unnecessary overhead in scenarios where external log management tools are already in place or where persistent logs are essential for audit trails.

Figure 5: Enter Caption

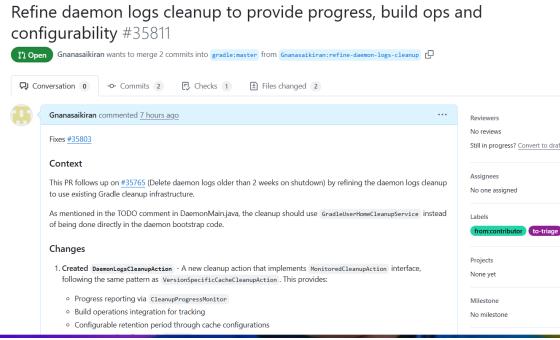


Figure 6: Enter Caption

7.5 PR 5 : EBOOKFOUNDATION

7.5.1 The Issue: Add 'Introduction to newLISP' book - Fixes

The documentation previously contained an incomplete listing of learning resources for newLISP, a lightweight and practical dialect of the LISP programming language. The absence of the "Introduction to newLISP" book created a gap in the educational material provided to new users, limiting their ability to find foundational knowledge required to understand the language's core syntax, features, and use cases.

Additionally, the existing book section included minor formatting errors and metadata inconsistencies that affected readability and uniform presentation. These defects led to a fragmented user experience, making it difficult to trust the documentation as a reliable reference for discovering high-quality newLISP resources.

Due to the lack of this key introductory reference and the formatting inconsistencies, onboarding for new contributors and learners became more challenging. As a result, the documentation failed to fully support the open-source objective of enabling smooth learning and wider adoption of newLISP within the community.

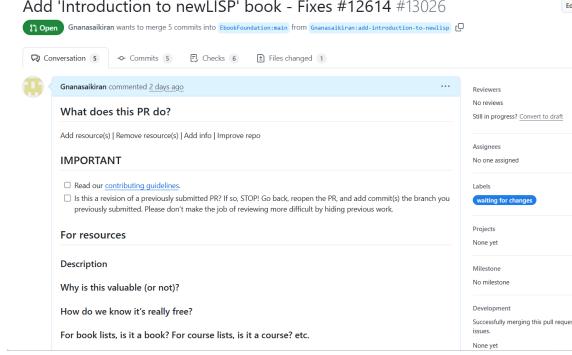


Figure 7: Enter Caption

7.5.2 The Solution Theory

The solution focuses on improving the completeness and accuracy of the open-source reference material by adding the missing "Introduction to newLISP" book to the documentation. By including this resource, the project now offers a structured learning path for new users who wish to understand and adopt newLISP for programming and automation tasks. This ensures that essential educational content is not overlooked by beginners, reducing the initial learning curve.

In addition to adding the new resource, minor formatting and metadata inconsistencies were corrected to align with the project's existing documentation standards. These improvements ensure clear presentation, proper categorization, and consistent hyperlinking behavior across the documented book list.

Through this enhancement, the documentation becomes more informative, user-friendly, and technically accurate. The update makes the repository a more reliable central hub for newLISP learning resources, supporting both beginner accessibility and project credibility in the open-source ecosystem.

Add 'Introduction to newLISP' book - Fixes #12614 #13026

GnanaSaiKiran wants to merge 5 commits into `EbookFoundation:main` from `GnanaSaiKiran:add-introduction-to-newlisp`

Conversation 5 Commits 5 Checks 6 Files changed 1

GnanaSaiKiran commented 2 days ago

What does this PR do?

Add resource(s) | Remove resource(s) | Add info | Improve repo

IMPORTANT

Read our [contributing guidelines](#).

Is this a revision of a previously submitted PR? If so, STOP! Go back, reopen the PR, and add commit(s) the branch you previously submitted. Please don't make the job of reviewing more difficult by hiding previous work.

For resources

Description

Why is this valuable (or not)?

How do we know it's really free?

For book lists, is it a book? For course lists, is it a course? etc.

Reviewers
No reviews
Still in progress? Convert to draft

Assignees
No one assigned

Labels
waiting for changes

Projects
None yet

Milestone
No milestone

Development
Successfully merging this pull request r issues.
None yet

8 Linkedin Post Links

8.1 PR :

https://www.linkedin.com/posts/activity-7399332607014109184-mUhL?utm_source=share&utm_medium=member_desktop&rcm=ACoAAFrWw7wBNaiUGxObdpVgJr-7D_JQbYzehbU

8.2 Journey Of Open Source :

https://www.linkedin.com/posts/gnana-sai-kiran-palla-590486366_the-journey-through-open-source-activity-7382301603884?utm_source=share&utm_medium=member_desktop&rcm=ACoAAFrWw7wBNaiUGxObdpVgJr-7D_JQbYzehbU

8.3 Self Hosted Project :

https://www.linkedin.com/posts/lokuchakreshkumar_opensource-kluniversity-foss-ugcPost-7382301603884?utm_source=share&utm_medium=member_desktop&rcm=ACoAAFrWw7wBNaiUGxObdpVgJr-7D_JQbYzehbU