Made by Pankaj Dhapade

Documentation for Jitsi-Meet Mini Project

What is Jitsi-Meet?

Jitsi Meet is a free, open-source, and secure video conferencing platform that facilitates online meetings, presentations, and collaborations. It can be accessed through a web browser or mobile app without requiring users to create accounts or install additional software.

Project Agenda

Deploy the Jitsi Meet application on an EC2 Ubuntu instance and access it via the instance's public IP address using a web browser.

Deployment Steps for Jitsi-Meet

1. Create an EC2 Ubuntu Instance

- **Launch Instance:** Use your AWS account to create an EC2 instance running Ubuntu.
- **Access Instance:** Connect to the instance using SSH (for example, via Git Bash).

2. Configure Security Groups

Open the following ports in the instance's security group:

- **Port 80 (TCP):** HTTP
- **Port 443 (TCP):** HTTPS
- **Port 10000 (UDP):** Media traffic control

3. Update the System

Update the package information and upgrade outdated packages by running:

```
sudo apt update && sudo apt upgrade -y
```

4. Initial Installation Attempt

Attempting to install Jitsi Meet directly using:

```
sudo apt install jitsi-meet
```

will result in an error because the package is not available in the official Ubuntu repositories. Therefore, you need to add the Jitsi Meet repository.

5. Install Required Packages

Install the following packages:

```
sudo apt install nginx gnupg2 openjdk-11-jre-headless
```

- **Nginx:** A web server used to host applications. In this project, it will host Jitsi Meet on the default port 80.
- **openjdk-11-jre-headless:** A Java runtime environment that runs Java-based applications. The headless version is preferred as it does not include a GUI, thus consuming fewer resources.
- **gnupg2:** A tool implementing the OpenPGP standard for encrypting and signing data, ensuring secure communication through public-key cryptography.

6. Add the Jitsi GPG Key

Download and dearmor the Jitsi GPG key, then save it to the appropriate keyring directory:

```
curl https://download.jitsi.org/jitsi-key.gpg.key | sudo gpg --dearmor -o /usr/share/keyrings/jitsi-keyring.gpg
```

This command downloads the key, converts it from an ASCII file to a binary format (dearmoring), and stores it where `apt` can easily read it.

7. Add the Jitsi Repository

Add the Jitsi repository to your system with:

```
echo "deb [signed-by=/usr/share/keyrings/jitsi-keyring.gpg] https://download.jitsi.org stable/" | sudo tee /etc/apt/sources.list.d/jitsi-stable.list
```

This step registers the repository and ensures that packages are verified using the downloaded GPG key.

8. Update Package Information Again

Sync your system's package list with the newly added repository:

```
sudo apt update
```

9. Install Jitsi-Meet

Finally, install Jitsi Meet:

```
sudo apt install -y jitsi-meet
```

During the installation, you will be prompted to enter a domain name. Use the public IP address of your EC2 instance. The installer will then generate a self-signed certificate. Although your browser may

display a warning regarding the self-signed certificate, you can safely proceed by entering the public IP address in your browser.
