

Here is the entire `README.md` content as a single Markdown text block:

RHEL Feature Installation and Management Scripts

This repository contains Node.js TypeScript scripts to install, manage, and uninstall various features on a Red Hat Enterprise Linux (RHEL) host. The scripts use `zx` for shell command execution and `@inquirer/prompts` for interactive user input.

Prerequisites

Before using these scripts, ensure the following prerequisites are met:

1. **Node.js and npm:** Install Node.js (v14 or higher) and npm on your RHEL host.

```
sudo dnf install -y nodejs npm
```

2. **TypeScript:** Install TypeScript globally.

```
sudo npm install -g typescript
```

3. **zx and @inquirer/prompts:** Install `zx` and `@inquirer/prompts` as dependencies.

```
npm install zx @inquirer/prompts
```

Scripts Overview

The repository contains three main scripts:

1. **installOnline.ts:** Installs features on an online RHEL host.
2. **installOffline.ts:** Installs features on an offline RHEL host using pre-downloaded packages.
3. **uninstallFeatures.ts:** Uninstalls features from the RHEL host.

How to Use the Scripts

1. Install Features on an Online RHEL Host

To install features on an online RHEL host, use the `installOnline.ts` script.

Steps:

1. Clone the repository to your RHEL host.

```
git clone <repository-url>  
cd <repository-directory>
```

2. Run the script using `ts-node`.

```
npx ts-node installOnline.ts
```

3. Follow the on-screen prompts to select the features you want to install.

2. Install Features on an Offline RHEL Host

If you need to install features on a RHEL host without internet access, use the `installOffline.ts` script. This requires pre-downloaded packages.

Steps:

1. Ensure you have a tarball of the required packages.
2. Clone the repository to your RHEL host.

```
git clone <repository-url>  
cd <repository-directory>
```

3. Run the script using `ts-node`.

```
npx ts-node installOffline.ts
```

4. Provide the path to the tarball when prompted and follow the instructions to install the desired features.

3. Uninstall Features

To uninstall features from your RHEL host, use the `uninstallFeatures.ts` script.

Steps:

1. Clone the repository to your RHEL host.

```
git clone <repository-url>  
cd <repository-directory>
```

2. Run the script using `ts-node`.

```
npx ts-node uninstallFeatures.ts
```

3. Select the features you want to uninstall from the list provided.

Example Use Cases

- **Install Asterisk from the RHEL repository:**
 - Run `installOnline.ts` and select "Asterisk" from the options.
- **Install the Enea Asterisk API on an offline system:**
 - Run `installOffline.ts`, provide the path to the pre-downloaded tarball, and select "Enea Asterisk API".
- **Uninstall VSCode:**
 - Run `uninstallFeatures.ts` and select "VSCode" from the list.

Additional Notes

- Ensure you run these scripts with sufficient privileges (`sudo`) where necessary, especially when installing or uninstalling system-wide packages.
- The `installOffline.ts` script assumes that the necessary RPMs and other resources are available in a tarball that can be extracted locally.

Troubleshooting

- **Node.js not found:** Ensure Node.js is installed correctly by running `node -v` and `npm -v`.
- **Permission Denied:** Run the script with `sudo` if you're facing permission issues.
- **Missing Packages:** If using `installOffline.ts`, make sure the tarball contains all required dependencies.

License

This project is licensed under the MIT License.

This is the complete content of the `README.md` file written entirely in Markdown.