# **Development Environment Setup**

## **Prerequisites - macOS**

Ensure you are using Python 3.6 or later. You can check your Python version with:

```
python3 --version
```

Then, install the necessary dependencies:

```
brew install python
brew install python3
brew install freerdp
```

## **Prerequisites - Linux**

Ensure you have the following packages installed:

```
sudo apt-get install -y build-essential libssl-dev libffi-dev
libqt5svg5 python3-dev qt5-* qtbase5-dev qtchooser qtbase5-dev-tools
qttools5-dev-tools python3-pyqt5 python3-pyqt5.*
```

#### **Dependency Overview**

- **Python/Python3**: Required for running and managing the Python scripts within the project.
- **FreeRDP**: A critical component for handling RDP connections, required for both development and runtime.
- Qt5 Libraries: These are necessary for building the GUI components of the application.

### Clone

Clone the Repository:

git clone https://github.com/LaswitchTech/PyRDPConnect.git

## **Build**

Run the Build Script: Use the provided build.sh script to set up the Python environment, install necessary dependencies, and build the application:

./build.sh

#### The build.sh script will:

- 1. Check if a Python virtual environment is available and create one if not.
- 2. Install necessary Python packages within the environment.
- 3. Detect the operating system and package the correct version of FreeRDP.
- 4. Bundle all necessary resources, including styles, icons, and images.
- 5. Generate the final application package using PyInstaller, with appropriate resources included.

#### Platform-Specific Notes:

- macOS: Ensure XQuartz is installed if you're planning to run the application in a graphical environment.
- **Linux**: If any dependencies fail to install, verify that your package list is up-to-date with sudo apt-get update.

## **Running the Application**

After building, the application can be run directly from the generated .app bundle on macOS or from the executable on Linux.

# **Packaging for Distribution**

To package the application for distribution, the build.sh script is used. It handles the entire packaging process and ensures all necessary components are bundled appropriately for the target operating system.

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