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# Installation Guide

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## Prerequisites for Running from Source

### macOS Users

PyRDPConnect requires XQuartz to function correctly on macOS. XQuartz is an open-source version of the X.Org X server, a component necessary for running remote desktop applications.

#### Step 1: Install XQuartz

1. Visit the official XQuartz website: [XQuartz Download Page](#).
2. Download and install the latest version of XQuartz.
3. (Optional) Restart your computer to ensure all necessary components are initialized.

**Why XQuartz?** XQuartz provides the necessary X11 environment that FreeRDP relies on for graphical rendering on macOS. Without it, the application may not display the RDP session correctly.

#### Step 2: Install Python and Required Packages

```
brew install python3  
pip3 install pyqt5
```

#### Step 3: Clone the Repository and Run from Source

Clone the PyRDPConnect repository:

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

Navigate to the src directory and execute the application:

```
python3 src/client.py
```

## Linux Users

For Linux users, PyRDPConnect requires Python 3, PyQt5, and FreeRDP to function correctly.

### Step 1: Install Required Packages

Update your package list and install the necessary packages:

```
sudo apt-get update
sudo apt-get install -y git python3 python3-pip python3-pyqt5 python3-pyqt5.qtquick python3-pyqt5.sip freerdp2-x11
```

### Step 2: Clone the Repository and Run from Source

1. Clone the PyRDPConnect repository:

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

2. Navigate to the src directory and execute the application:

```
python3 src/client.py
```

## Running the Pre-Built Application

### macOS Users

PyRDPConnect is available as a pre-built macOS application (.app). Before using the application, you must install XQuartz.

### Step 1: Install XQuartz

1. Visit the official XQuartz website: [XQuartz Download Page](#).
2. Download and install the latest version of XQuartz.
3. (Optional) Restart your computer to ensure all necessary components are initialized.

## Step 2: Run the PyRDPConnect Application

1. Locate the `PyRDPConnect.app` in the `dist/macos` directory or where you saved it.
2. Double-click the application to launch it.
3. PyRDPConnect should now open and run as expected.

**Troubleshooting:** If PyRDPConnect does not open or shows an error related to X11 or XQuartz, ensure that XQuartz is installed and running. You can manually start XQuartz from your Applications folder (`/Applications/Utilities/XQuartz.app`).

## Linux Users

PyRDPConnect is also available as a pre-built single-file executable on Linux.

### Step 1: Download and Install Dependencies

Make sure FreeRDP is installed:

```
sudo apt-get install -y freerdp2-x11
```

### Step 2: Run the PyRDPConnect Executable

1. Locate the PyRDPConnect executable in the `dist/linux` directory or where you saved it.
2. Make the file executable if it's not already:

```
chmod +x dist/linux/PyRDPConnect
```

3. Run the application:

```
./dist/linux/PyRDPConnect
```

## Troubleshooting Common Issues

**Permission Denied Error:** If you encounter a "Permission denied" error, ensure that the script has executable permissions:

```
chmod +x <script_name>.sh
```

**XQuartz Issues:** If XQuartz does not start automatically, you can manually start it from `/Applications/Utilities/XQuartz.app`.

## Additional Information

If you have any questions or need further assistance, feel free to open an issue in the [GitHub Repository](#).

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Permanent link:  
<https://laswitchtech.com/en/projects/pyrdpconnect/documentation/installation>

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