

# Services

- [Apache Guacamole](#)

# Apache Guacamole

## Process

## Install Dependencies

```
sudo apt install build-essential maven default-jdk default-jre libcairo2-dev libjpeg62-turbo-dev libpng-dev libtool-  
bin uuid-dev libvncserver-dev freerdp2-dev libssh2-1-dev libavcodec-dev libavformat-dev libavutil-dev  
libswscale-dev libpango1.0-dev libpulse-dev libvorbis-dev libwebp-dev
```

Download and setup Tomcat 9 manually until 10 or newer are supported.

## Download

<https://guacamole.apache.org/releases/>

```
curl -LO "https://apache.org/dyn/closer.lua/guacamole/1.6.0/source/guacamole-server-  
1.6.0.tar.gz?action=download"  
curl -LO "https://apache.org/dyn/closer.lua/guacamole/1.6.0/source/guacamole-client-  
1.6.0.tar.gz?action=download"  
  
tar xf guacamole-server-1.6.0.tar.gz  
tar xf guacamole-client-1.6.0.tar.gz
```

## Server

```
./configure --with-systemd-dir=/usr/lib/systemd/system  
make -j2  
sudo make install  
  
sudo ldconfig  
sudo systemctl daemon-reload  
sudo systemctl restart guacd
```

# Client

```
JAVA_HOME=/usr/lib/jvm/java-17-openjdk-amd64 mvn package
```

```
sudo rm /etc/guacamole/extensions/*
```

```
sudo cp guacamole/target/guacamole-1.6.0.war /opt/tomcat/webapps/ROOT.war
```

```
sudo cp extensions/guacamole-auth-jdbc/modules/guacamole-auth-jdbc-postgresql/target/guacamole-auth-jdbc-postgresql-1.6.0.jar /etc/guacamole/extensions/
```

```
sudo cp extensions/guacamole-auth-quickconnect/target/guacamole-auth-quickconnect-1.6.0.jar  
/etc/guacamole/extensions
```

```
sudo cp extensions/guacamole-auth-sso/modules/guacamole-auth-sso-openid/target/guacamole-auth-sso-openid-1.6.0.jar /etc/guacamole/extensions
```

```
# If weird issues are encountered, clear the maven cache
```

```
rm -rf ~/.m2
```