Administración de Apache

```
choco install apache-httpd
brew install apache2
apt install apache2
yum install httpd
```

```
sun@hu: ~
sun@hu:~$
Listen 80

LoadModule http2_module modules/mod_http2.so
LoadModule rewrite_module modules/mod_rewrite.so

ServerName localhost:80

DocumentRoot "${SRVROOT}/htdocs"
<Directory "/htdocs">
    Require all granted
</Directory>
<Directory "/htdocs/private">
    Require all denied
</Directory>
```

C:\Users\centeno01\AppData\Roaming\Apache24\conf\httpd.conf
/usr/local/etc/httpd/httpd.conf
/etc/apache2/apache2.conf
/etc/httpd/conf/httpd.conf

Orden: Directory > Files > Location

```
sun@hu:~$
<Directory "/var/web/dir1">
    Options +Indexes
</Directory>

<Files "private.html">
    Require all denied
</Files>

<Directory "/var/web/dir1">
    <Files "private.html">
        Require all denied
    </Files>
</Directory>
```

```
sun@hu:~$
<FilesMatch "\.(?i:gif|jpe?g|png)$">
    Require all denied
</FilesMatch>

<Location "/dir/">
    <RequireAll>
        Require not host privado.example.com
    </RequireAll>
</Location>

<LocationMatch "^/private">
    Require all denied
</LocationMatch>
```

```
sun@hu: ~

sun@hu:~$
<VirtualHost *:80>
  ServerName mi-servidor.com
  Redirect permanent / https://www.google.com/
</VirtualHost>

<VirtualHost *:443>
  ServerName mi-servidor.com
  SSLEngine on
  SSLCertificateFile certificate.crt
  SSLCertificateKeyFile certificate.key
</VirtualHost>
```

Apache Tomcat

https://tomcat.apache.org/tomcat-7.0-doc/appdev/sample/

```
choco install tomcat
brew install tomcat
apt install tomcat9
yum install tomcat
```

$TOMCAT_HOME/conf/tomcat-users.xml

```xml
<tomcat-users>
  <role rolename="admin-gui"/>
  <role rolename="manager-gui"/>
  <user username="admin" password="admin_password"
roles="admin-gui,manager-gui"/>
</tomcat-users>
```

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Server port="8005" shutdown="SHUTDOWN">
  <GlobalNamingResources>
    <Resource name="UserDatabase" auth="Container"
        type="org.apache.catalina.UserDatabase"
        description="User database that can be updated and saved"
        factory="org.apache.catalina.users.MemoryUserDatabaseFactory"
        pathname="conf/tomcat-users.xml" />
  </GlobalNamingResources>

<Service name="Catalina">
  <Connector port="8080" protocol="HTTP/1.1" redirectPort="8443" />
  <Engine name="Catalina" defaultHost="localhost">
    <Realm className="org.apache.catalina.realm.LockOutRealm">
      <Realm className="org.apache.catalina.realm.UserDatabaseRealm"
        resourceName="UserDatabase"/>
    </Realm>

    <Host name="localhost"  appBase="webapps"
        unpackWARs="true" autoDeploy="true">
    </Host>
  </Engine>
</Service>
</Server>
```
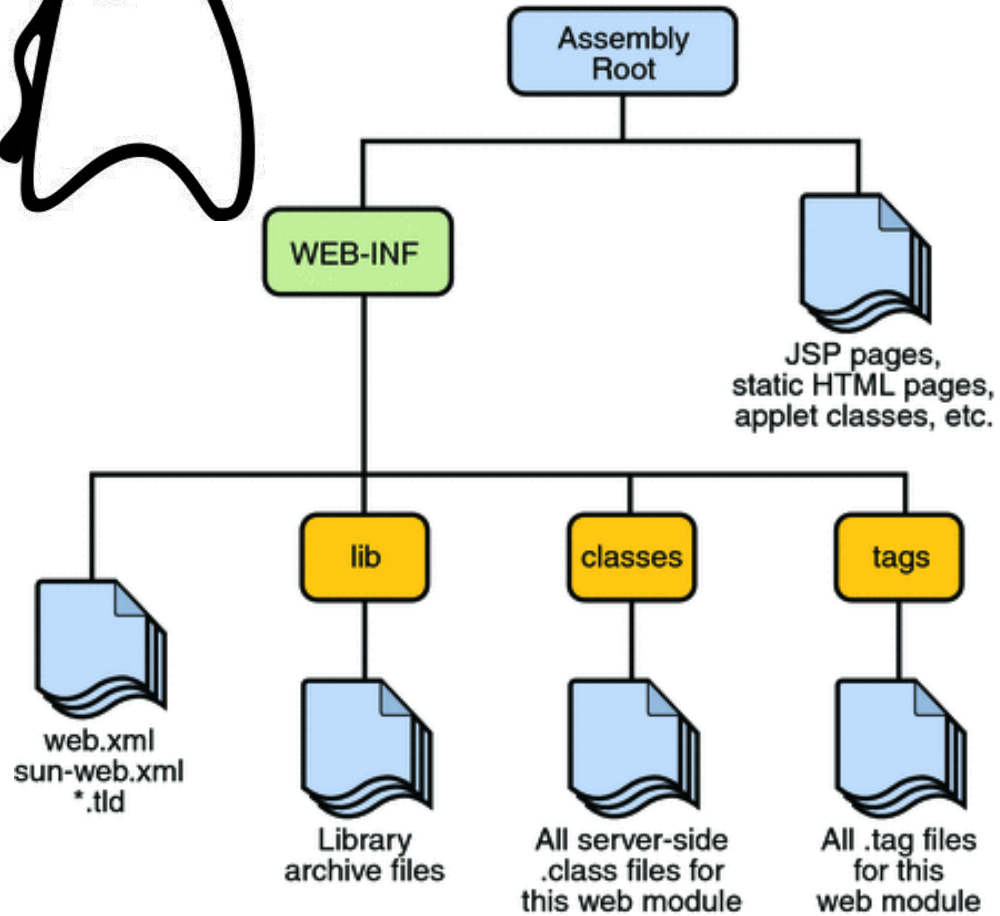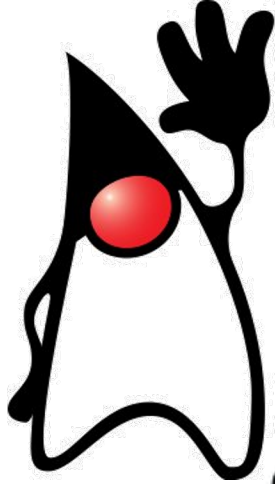
$TOMCAT_HOME/conf/server.xml

```xml
<web-app>
  <servlet>
    <servlet-name>HelloServlet</servlet-name>
    <servlet-class>mypackage.HelloServlet</servlet-class>
  </servlet>

  <servlet-mapping>
    <servlet-name>HelloServlet</servlet-name>
    <url-pattern>/HelloServlet</url-pattern>
  </servlet-mapping>

  <resource-ref>
    <description>
      Resource reference to a factory for javax.mail.Session
      instances that may be used for sending electronic mail messages,
      preconfigured to connect to the appropriate SMTP server.
    </description>
    <res-ref-name>mail/Session</res-ref-name>
    <res-type>javax.mail.Session</res-type>
    <res-auth>Container</res-auth>
  </resource-ref>
</web-app>
```
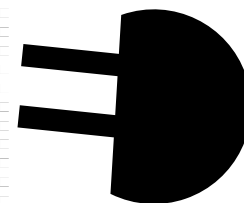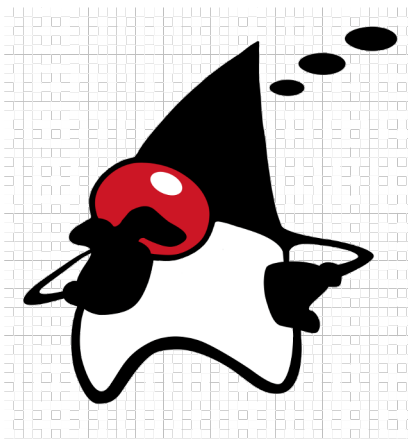
JDBC

https://tomcat.apache.org/tomcat-8.0-doc/jndi-datasource-examples-howto.html

```xml
<web-app>
 <resource-ref>
    <description>DB Connection</description>
    <res-ref-name>jdbc/TestDB</res-ref-name>
    <res-type>javax.sql.DataSource</res-type>
    <res-auth>Container</res-auth>
 </resource-ref>
</web-app>
```

```xml
<Context>
    <Resource name="jdbc/TestDB" auth="Container" type="javax.sql.DataSource"
        maxTotal="100" maxIdle="30" maxWaitMillis="10000"
        username="javauser" password="javadude"
        driverClassName="com.mysql.jdbc.Driver"
        url="jdbc:mysql://localhost:3306/javatest"/>
</Context>
```

SSH

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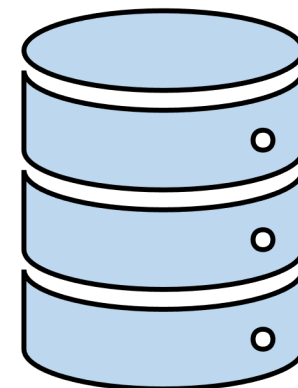
```
       Connectar --> ssh user@server

       Comandos --> echo SSH ejecuta commandos de la consola concreta
                    ls -la
                    history
                    sudo !!
    Desconectar --> exit

         Upload --> echo Esto se ejecuta fuera de la conexión SSH
                    scp fichero.txt user@server:/home

       Download --> echo Esto también se ejecuta desde mi máquina
                    scp user@server:/home/fichero.txt ./fichero.csv
```

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```
😑⊟ sun@hu: ~
sun@hu:~$
echo Podemos guardar la contraseña en una key
ssh-keygen –t rsa
echo hay que darle permisos
chmod 600 .ssh/id_rsa
echo Y subirla al servidor mediante SSH
scp .ssh/id_rsa.pub user@server:

echo Desde el servidor guardo la key autorizada
user@server
mkdir .ssh
chmod 700 .ssh

echo El nombre tiene que ser este
cat id_rsa.pub >> .ssh/authorized_keys
```

Save key -->

Permissions -->

Upload key -->

Connect -->

Rename key -->

Secure Shell (SSH)

```
😣⊝⊡  sun@hu: ~
sun@hu:~$
```

Read --> `chmod 400 fichero.txt`

Read-Write --> `chmod 600 .ssh/id_rsa`

RW-eXe --> `chmod 700 .ssh`

Grupo --> `chmod 640 fichero.txt`

Todos --> `chmod 644 fichero.txt`

A todos --> `chmod +x fichero.txt`

Propietario --> `chown oliver:curso fichero.csv`

(S)FTP(S)

```
Administrator: Windows PowerShell

PS C:\Temp> ftp
ftp> help
Commands may be abbreviated.    Commands are:

!               delete          literal         prompt          send
?               debug           ls              put             status
append          dir             mdelete         pwd             trace
ascii           disconnect      mdir            quit            type
bell            get             mget            quote           user
binary          glob            mkdir           recv            verbose
bye             hash            mls             remotehelp
cd              help            mput            rename
close           lcd             open            rmdir

ftp>
```
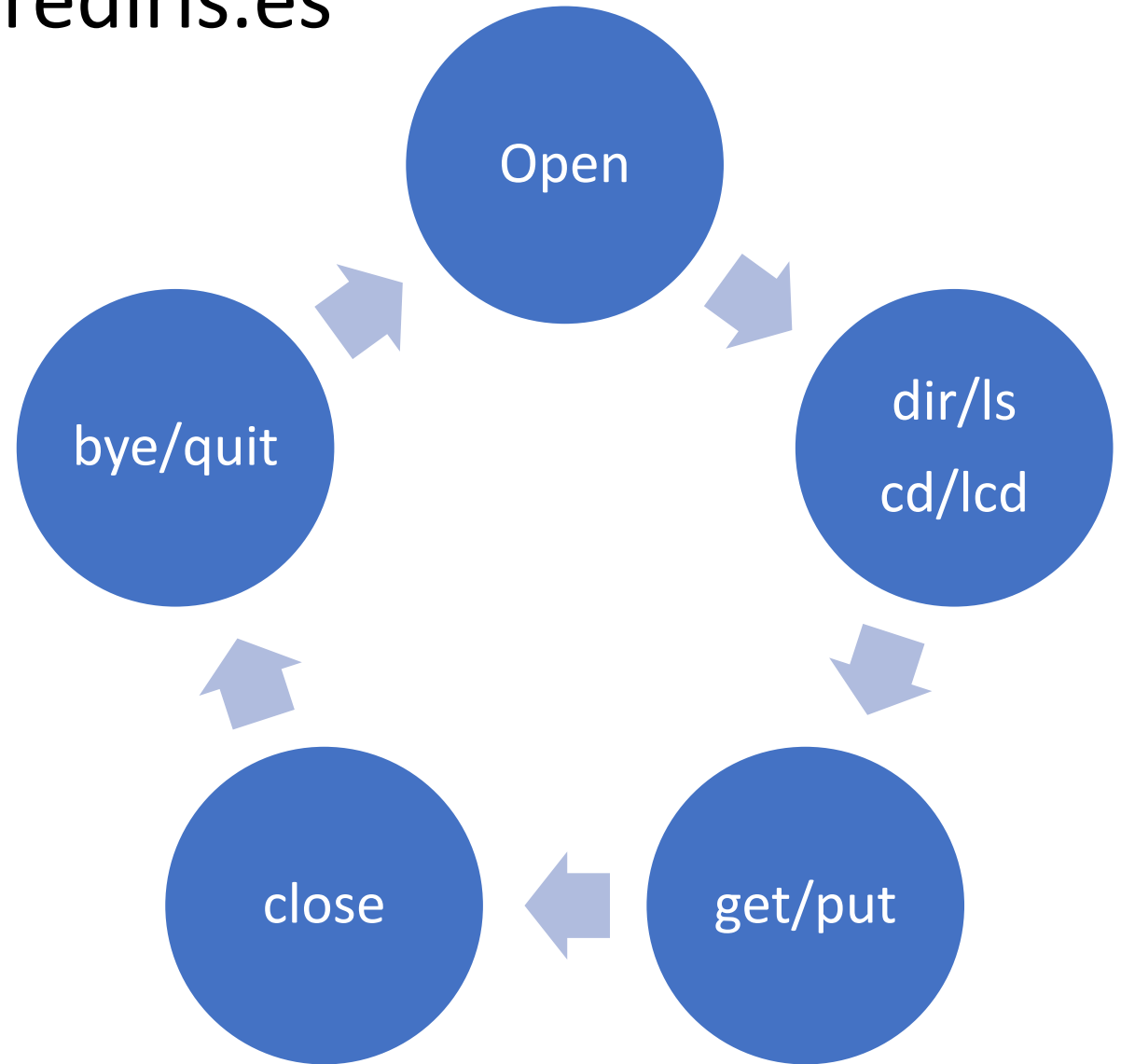
choco install filezilla.commandline
choco install smartftp
choco install crossftp
choco install lftp

ftp.rediris.es

- anonymous
- user:password

- Active
- Passive

- Binary
- ASCII

Secure Shell (SSH)

SFTP = >SSH + FTP