**Upgrade Apache 2.4.58**

Follow all the steps to compile Apache 2.4.58 with Apr and Apr-utils in Linux GW.

**Step 1:** Download all the requisite packages.

***wget https://dlcdn.apache.org/httpd/httpd-2.4.61.tar.gz***

***wget https://dlcdn.apache.org//apr/apr-1.7.4.tar.gz***

***wget https://dlcdn.apache.org//apr/apr-util-1.6.3.tar.gz***

**Step 2:** Compile and install apr

***$ tar -xvf apr-1.7.4.tar.gz***

***$ cd apr-1.7.4/***

***$ ./configure***

***$ make -j$(nproc)***

***$ sudo make install***

**Step 3:** Compile and install apr-util

***$ tar -xvf apr-util-1.6.3.tar.gz***

***$ cd apr-util-1.6.3/***

***$ ./configure --with-apr=/usr/local/apr/***

***$ make -j$(nproc)***

***$ sudo make install***

**Step 4:** Compile and install Apache

***$ tar -xvf httpd-2.4.58.tar.gz***

***$ cd httpd-2.4.58/***

***$ ./configure --enable-ssl --enable-mpms-shared=all --enable-nonportable-atomics=yes***

***$ make -j$(nproc)***

***$ sudo make install***

**Step 5:** Now make a folder **“Apache2\_4\_58”** and add **/usr/local/apache2** and **/usr/local/apr** folder inside that and create a **update.sh** file and paste below script.

This script will remove existing Apache and Apr from the system and install newer versions of Apache and Apr.

***/usr/bin/sudo dpkg -P --force-depends libapr1:amd64 libapr1-dev libaprutil1:amd64 libaprutil1-dev***

***/usr/bin/sudo dpkg -P --force-depends apache2 apache2-bin apache2-data apache2-utils***

***/usr/bin/sudo rm -rf /usr/local/apache2 /usr/local/apr***

***/bin/chmod -R +x apache2/\* apr/\* apache2.service apache-htcacheclean.service***

***/usr/bin/sudo cp -r apache2 /usr/local/***

***/usr/bin/sudo cp -r apr /usr/local/***

***/usr/bin/sudo cp apache2.service /lib/systemd/system/***

***/usr/bin/sudo ln -s /lib/systemd/system/apache2.service /etc/systemd/system/multi-user.target.wants/apache2.service***

***/usr/bin/sudo cp apache-htcacheclean.service /lib/systemd/system/***

***/usr/bin/sudo ln -s /lib/systemd/system/apache-htcacheclean.service /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service***

***/usr/bin/sudo mkdir -p /var/cache/apache2/mod\_cache\_disk***

**Step 6:** Now copy **“Apache2\_4\_58”** folder on Linux Gateway

**Step 7:** enter in **“Apache2\_4\_58”** folder.

**Step 8**: before run update.sh ***give executable permissions by***

sudo chmod +x update.sh

**Step 9**: Then run **./update.sh** command by putty and after successfully verify Apache version and then update httpd.conf settings accordingly.