How to upgrade OpenSSL in Amazon linux

Recently V&A requested to upgrade OpenSSL in Amazon Linux. While updating, I found some difficulty. If the amazon Linux is not having the latest version of the OpenSSL package in their repo, then we need to download from OpenSSL website and upgraded in Amazon Linux.

I have prepared documentation with Linux command attached.

Step-by-step guide

1. Login server through putty.
2. Upgrade yum and server update to get latest package released by amazon

   - **sudo yum upgrade**
   - **sudo yum update**
3. To check the current version of openssl in amazon linux

   - **openssl version**
4. Execute the following command to upgrade openssl

   - **sudo yum update openssl**
5. To confirm the updated version of openssl in amazon linux

   - **openssl version**
6. If version not up to date but the client request to upgrade up to date version. Here we need to execute some more commands because the default amazon linux package is not updated. So we need to download from openssl repo and install in our server. The following to commands to get from openssl repo as

   \# change the current user to root

   - **sudo su**
   - **cd /usr/src/**

\# OPTIONALLY CHANGE openssl-1.1.1.tar.gz to the version which you want

- **wget https://www.openssl.org/source/openssl-1.1.1.tar.gz**
- **sha256sum openssl-1.1.1.tar.gz #confirm this matches the published hash**
- **tar -zxf openssl-1.1.1.tar.gz**
- **cd /usr/local/src/openssl-1.1.1**
- **./config --prefix=/usr/local --openssldir=/usr/local/openssl**
- **make**

\# if make test fail no problem continue with next step

- **make test**
- **make install**
- **export LD_LIBRARY_PATH=/usr/local/lib64**

\#make export permanent

- **echo "export LD_LIBRARY_PATH=/usr/local/lib64" > /etc/profile.d/ld_library_path.sh**
- **chmod ugo+x /etc/profile.d/ld_library_path.sh**
- **openssl version**

\#recommended reboot here

- **openssl version**

\#confirm it works after **reboot**

- **openssl version**