Ways to check supported versions in Linux systems

Linux authentication requires **Duo Unix (pam_duo or login_duo) 1.10.4 or later** and **OpenSSL 1.0.1 or later** to support TLS 1.2.

You can run the following commands to find out which version of Duo client and OpenSSL is using on your system, and confirm the SSL connection is using the supported version.

1. To check the Duo client and OpenSSL version:

- Check if your installed **Duo client version is 1.10.4 or later**
    - ```
      dnf list installed duo_unix
      ```

- Check if **OpenSSL version is 1.0.1 or later**
    - ```
      openssl version
      ```

2. To check the Protocol connectivity:

- Use **duo ping test** to check if the SSL connection is **using TLS v1.2 or above and strong cipher suite**

    - ```
      curl -v
      https://api.duosecurity.com/auth/v2/ping
      ```

    - then compare the result with the table in https://www.itsc.cuhk.edu.hk/all-it/information-security/two-factor-authentication-2fa/duo-will-no-longer-support-tls-v1-0-or-1-1/#tab_1.

- Use **api host ping test** to check if the SSL connection is **using TLS v1.2 or above and strong cipher suite**

    - ```
      curl -v https://$(grep host\ =\ api
      /etc/duo/pam_duo.conf|rev|cut -d ' ' -f
      1|rev)/auth/v2/ping
      ```

    - then compare the result with the table in https://www.itsc.cuhk.edu.hk/all-it/information-security/two-factor-authentication-2fa/duo-will-no-longer-support-tls-v1-0-or-1-1/#tab_1.

Last Update: 30 Mar 2023