

NAS Installation - Synology DSM 7.4

Upgrade from DSM 6.4

- First upgrade to DSM 7.0 through *Control Panel*
- Go to the [Synology Download Center](#), *Select product type* and *Select your Synology Product*, then *Select DSM version* currently installed and the latest DSM version offered for this product as a target DSM version
- Upload the downloaded update file in *Control Panel* -> *Update & Restore* -> *Manual DSM Update* and start the update
- The update should run without issues, after which there are a few extensions which are obsolete and which you can uninstall

KMIP for key management

- Follow the guide to install [KMIP](#) on a Synology NAS server and client
- What this guide does not mention is how to generate working certificates for DSM 7.4 and later, which hardened the certificate requirements, so follow my guide here:
 1. The default, out-of-the-box self-signed Synology certificate will fail on DSM 7.4
 2. Login to your NAS on the command line with SSH and elevate to root
 3. Download Synology's official KMIP certificate script:

```
wget  
supweb.synology.com/support_web/kc_tool/how_to_gen_cert_for_kmip_s  
ervices/gen_kmip_certs.sh
```

4. Run the script as root:

```
bash gen_kmip_certs.sh kmip_certs
```

The second parameter *kmip_certs* is the name of a shared folder the script will create to store the certificates

5. Upload the generated scripts in `/volume1/kmip_certs` to your local computer you use to access your DSMs through your web browser

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