

1. Convert and import keys

Next, we'll try and see if we can import our old keys so we can avoid havind to upload a new DS to our parent zone.

```
# cd /etc/namedb/keys

# softhsm-keyconv --topkcs8 --in Kphil.+005+22603.private --out zsk-22603.pem
The key has been written to zsk-22603.pem

# softhsm-keyconv --topkcs8 --in Kphil.+005+39978.private --out ksk-39978.pem
The key has been written to ksk-39978.pem

# ods-hsmutil list
```

Repository	ID	Type
-----	--	----
SoftHSM	869f05d1c8e43fa8426b7dae1d434568	RSA/1024
SoftHSM	2f1e5cc56997c2aee7609be5c6c8b0c4	RSA/2048

```
# ods-ksmutil key list --verbose
```

Compare the ID to the CKA_ID

2. Import keys into HSM - for both KSK and ZSK:

Get unique id:

```
# uuidgen | tr -d '-'
100d73b5fe0f11e18c32020530e3da0b

# softhsm --import ksk-39978.pem --slot 0 --pin 1234 --label OpenDNSSEC --id \
100d73b5fe0f11e18c32020530e3da0b
The key pair has been imported to the token in slot 0.

# uuidgen | tr -d '-'
7ea57f3ffe0f11e18c32020530e3da0b

# softhsm --import zsk-22603.pem --slot 0 --pin 1234 --label OpenDNSSEC --id \
7ea57f3ffe0f11e18c32020530e3da0b
The key pair has been imported to the token in slot 0.
```

3. Import the keys into OpenDNSSEC

What is the name of the repository ?

```
# ods-ksmutil repository list
...
SoftHSM
...
```

```
# ods-ksmutil key import --cka_id 100d73b5fe0f11e18c32020530e3da0b --repository
SoftHSM --zone phil --bits 1024 --algorithm 5 --keystate active --keytype ZSK
--time 201209130000
```

Key imported into zone(s)

```
# ods-ksmutil key import --cka_id 7ea57f3ffe0f11e18c32020530e3da0b --repository
```

```
SoftHSM --zone phil --bits 1289 --algorithm 5 --keystate active --keytype KSK  
--time 201209130000
```

Key imported into zone(s)

```
# ods-ksmutil key list --verbose
```

Notice the Keytag values!

References:

<https://wiki.opendnssec.org/display/DOCS/Migrating+to+OpenDNSSEC>

<https://wiki.opendnssec.org/download/attachments/590430/opendnssec.exercises.2012.03.pdf?version=1&modificationDate=1330681838000>