# Generate Keys

cd /boot/efi/

## DB Key

openssl req -new -x509 -newkey rsa:2048 -subj "/CN=Commscope SgNB Bootloader key/" -keyout db.key -out db.crt -days 3650 -nodes -sha256

openssl x509 -outform DER -in db.crt -out db.cer

# Sign Bootloaders

cd /boot/efi/EFI/centos

## Backup

cp grubx64.efi grubx64.efi.bkup

cp shim.efi shim.efi.bkup

cp MokManager.efi MokManager.efi.bkup

cp mmx64.efi mmx64.efi.bkup

## Sign

Before signing, removed already attached signatures using step 3.1.

sbsign --key /boot/efi/db.key --cert /boot/efi/db.crt --output grubx64.efi grubx64.efi.bkup

sbsign --key /boot/efi/db.key --cert /boot/efi/db.crt --output shim.efi shim.efi.bkup

sbsign --key /boot/efi/db.key --cert /boot/efi/db.crt --output MokManager.efi MokManager.efi.bkup

sbsign --key /boot/efi/db.key --cert /boot/efi/db.crt --output mmx64.efi mmx64.efi.bkup

# Sign Kernel

cd /boot

## Remove Signatures

sbattach --signum 1 --remove vmlinuz-4.18.0-147.3.1.rt24.96.el8\_1.tis.8.x86\_64

sbverify --list vmlinuz-4.18.0-147.3.1.rt24.96.el8\_1.tis.8.x86\_64

No signature table present

Run the *sbattach* command till *sbverify* reports ‘*No signature table present’*

## Sign

sbsign --key /boot/efi/MOK.key --cert /boot/efi/MOK.crt --output vmlinuz-4.18.0-147.3.1.rt24.96.el8\_1.tis.8.x86\_64.signed vmlinuz-4.18.0-147.3.1.rt24.96.el8\_1.tis.8.x86\_64

## Update Grub

cp initramfs-4.18.0-147.3.1.rt24.96.el8\_1.tis.8.x86\_64.img initramfs-4.18.0-147.3.1.rt24.96.el8\_1.tis.8.x86\_64.signed.img

grub2-mkconfig -o /boot/efi/EFI/centos/grub.cfg