Step-by-step Upgrade Firmware Cisco HSBC

1. Change IPv4 on Ethernet Adapter

```
 - Control Panel > Network & Internet > Network Connection > Eth Properties > IPv4 Properties
   IP Address  : 192.168.10.1
   Subet mask  : 255.255.255.0
   Default GW  : 192.168.10.2
```

2. Open TFTPd64 Application

```
Current Directory : C:\Users\ZZ00TH749\Desktop
Server Interface  : 192.168.10.1
```

   If there is not possible to connect through, so use scp

```
SW1(config)# feature scp-server
SW1# sh feature | i scp
```

```
$ scp m9100-s5ek9-kickstart-mz.8.4.2d.bin RYANTHOAV@136.61.206.3:bootflash:
```

3. Open Putty > Check the device manager to know, which port the serial connected to

```
Serial Line  : COM1
Speed        : 9600
Connection   : Serial
```

4. Backup config

```
SW1# term leng 0
SW1# show run
```

5. Verify active zone

```
SW1# sh zone analysis vsan <ID>
SW1# sh zone analysis active vsan <ID>
```

6. Verify the storage displayed in the fabric log

```
SW1# sh flogi database
SW1# sh flogi database vsan <ID>
```

7. Pre-check verification

```
SW1# ping 192.168.10.2
SW1# sh bootflash:                --> make sure the disk space is enough
SW1# sh system internal flash     --> make sure the /var log folder is not full
SW1# sh system internal dir /var  --> troubleshoot what causing it full
SW1# sh system internal dir /var/nginx/logs
SW1# sh system internal dir /var/nginx-dm/logs
SW1# sh feature | i scp           --> make sure it disabled
SW1# sh feature | i ftp           --> make sure it disabled
SW1# sh version                   --> capture current version
```

   If folder `/var` is full 100%, we need to clear it by enable and disable nxapi

```
```

```
SW1# conf t
SW1(config)# no feature nxapi
SW1(config)# feature nxapi
```

8. Copy running config & startup config for backup running-config

```
SW1# copy run bootflash:running-config-23032023.cfg
```

9. Transfer backup running config file from Switch to TFTP Server

```
SW1# copy flash: tftp:            --> try to copy from switch to PC
Source filename []? running-config-23032023.cfg
Address or name of remote host []? 192.168.1.150   --> PC IPv4
```

10. Download image file from TFTP server to Switch

```
SW1# copy tftp: flash:
Address or name of remote host []? 192.168.1.150
Source filename []? m9100-s5ek9-kickstart-mz.8.4.2d.bin

SW1# copy tftp: flash:
Address or name of remote host []? 192.168.1.150
Source filename []? m9100-s5ek9-mz.8.4.2d.bin

SW1# sh bootflash:
```

Distribute file to other devices

```
SW2# copy scp://RYANTHOV@192.168.11.100//m9100-s5ek9-mz.8.4.2d.bin bootflash:m9100-s5ek9-mz.8.4.2d.bin
SW2# copy scp://RYANTHOV@192.168.11.100//m9100-s5ek9-kickstart-mz.8.4.2d.bin bootflash:m9100-s5ek9-kickstart-
mz.8.4.2d.bin

OR

SW2# copy scp: bootflash:
Address or name of remote host []? 192.168.11.100
Source username []? RYANTHOV
Source filename []? m9100-s5ek9-mz.8.4.2d.bin
Destination filename []? m9100-s5ek9-mz.8.4.2d.bin
```

Make sure after transfer, disabled scp-server

```
SW1# conf t
SW1(config)# no feature scp-server
SW1(config)# do sh feature | i scp
```

11. Checksum MD5 to make sure file is not corrupt

```
SW1# verify /md5 bootflash:m9100-s5ek9-kickstart-mz.8.4.2d.bin
SW1# verify /md5 bootflash:m9100-s5ek9-mz.8.4.2d.bin
OR
SW1# show file bootflash:m9100-s5ek9-kickstart-mz.8.4.2d.bin md5sum
SW1# show file bootflash:m9100-s5ek9-mz.8.4.2d.bin md5sum
```

12. Check feature incompatibility

```
SW1# show incompatibility system bootflash:m9100-s5ek9-mz.8.4.2d.bin
SW1# show install all impact kickstart m9100-s5ek9-kickstart-mz.8.4.2d.bin system m9100-s5ek9-mz.8.4.2d.bin
```

13. Save the current configuration

```
SW1# copy run start
```

14. ***Firmware installation with non-disruptively!***

```
SW1# install all system bootflash:m9100-s5ek9-mz.8.4.2d.bin kickstart bootflash:m9100-s5ek9-kickstart-mz.8.4.2d.bin
```

15. Final verification

```
SW1# sh version
SW1# sh zone analysis vsan <ID>
SW1# sh zone analysis active vsan <ID>
SW1# sh flogi database
SW1# sh flogi database vsan <ID>
```