

# Administration, upgrades and maintenances

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# Avaya SBCE - Hotfix Installation 8.X

Avaya SBCEs requires patches and hotfixes to be applied regularly.

In this entry lets document the procdure to install a hotfix in a Avaya SBCE 8.1.3

Its important to mention that:

- the procedure is similar for the EMS and SBCE devices.
- root access is required as to stop services and execute the script
- always start with EMS servers
- if SBCE HA start with the secondary servers
- download the correct patch and verify any official changes in the procedure

With the previous comments made, here is the procedure to apply a hotfix/patch :

- 1) Upload hotfix file to /home/ipcs
- 2) Change permissions to the file `chmod 777 sbce-8.x.x.-xx-xxxxx-hotfix-xxxxxxx.tar.gz`
- 3) Unzip the hotfix file `tar -zxvf sbce-8.x.x.-xx-xxxxx-hotfix-xxxxxxx.tar.gz`
- 4) Change work directory `cd sbce-8.x.x.-xx-xxxxx-hotfix-xxxxxxx`
- 5) Stop services before patching `/etc/init.d/ipcs-init stop`
- 6) Start the script `sh install_hotfix.sh`
- 7) Reboot `/sbin/reboot`
- 8) Verify version with `ipcs-version`

# Avaya SBCE - Upgrade 8.1.0 to 8.1.2 in VMWare

The following procedure was applied to Upgrade Avaya SBCE solution from 8.1.0 to 8.1.2

One key note using this procedure is that the current VMs were not upgraded, new VMs were deployed (maintaining old VMs were turned off and keep just in case rollback is required). In the next entry we will work in a procedure upgrading the current VMs in production.

Here are some important notes:

- New VMs installed with version 8.1.2 require same IPs.
- The order to migrate multiple systems is the following:
  1. Migrate data to the primary EMS first.
  2. Migrate data to the SBCE VMs in any order (HA pair, migrate data to the secondary SBCE first, followed by the primary SBCE.
  3. Migrate data to the secondary EMS last.

## Procedure

- 1) Download 8.1.2 OVA (sbce-8.1.2.0-31-19809.ova)
- 2) Download latest patch for 8.1.2 version
- 3) Download 8.1.2 uberutility
- 4) Create a backup file from current SBCEs in 8.1.0 using uberutility
  - 4.1) mkdir /archive/createbkp
  - 4.2) cd /archive/createbkp
  - 4.3) upload and copy 8.1.2 uberutility to /archive/createbkp
  - 4.4) decompress uberutility tar -xvf sbce-8.1.2.0-31-19809\_uberutility-a50b843901b.tar.gz
  - 4.5) execute the following script decompress from uberutility

```
python ursbce.py --takemigratebackup --filename_with_path=/archive/createbkp/sbce-backup-<version>-<sbce hostname>.tar.gz
```
  - 4.6) copy the file created to an external device making it available

- 5) Install the VMs using the OVA with their respective roles (EMS and SBCEs)
- 6) Set temporary IPs using the wizard thru the console
- 7) Upload the latest patch into the new VMs (connect using the temporal IPs)
- 8) Apply the latest patch in all new VMs
- 9) Upload each backup files created in step 4 to the corresponding new VM.
- 10) Perform a factory reset in each VM using  
`sbceconfigurator.py factory-reset`
- 11) Turn off the production SBCE servers (this must be implemented in a maintenance window)
- 12) Run the wizard in the new VMs using VMWare console
- 13) Copy the uploaded backup in each server to `/archive/backup/upgrade`
- 14) Restore backup (EMS must be migrated first)  
`/usr/local/ipcs/icu/scripts/ursbce.py --restoremigratebackup --  
filename_with_path=/archive/backup/upgrade/file_name.`
- 14) Reboot

15) In case needed disable SIPS Required.

When doing an upgrade to Release 8.1.2 or later, the SIPS Required option in Server Interworking is automatically enabled after the upgrade.

For any configurations that do not use this feature, you must manually disable this option after you do the upgrade.

For example, you must disable this option in Server Interworking profiles when the deployment has or uses Microsoft Teams, Skype for Business, and Microsoft Lync.

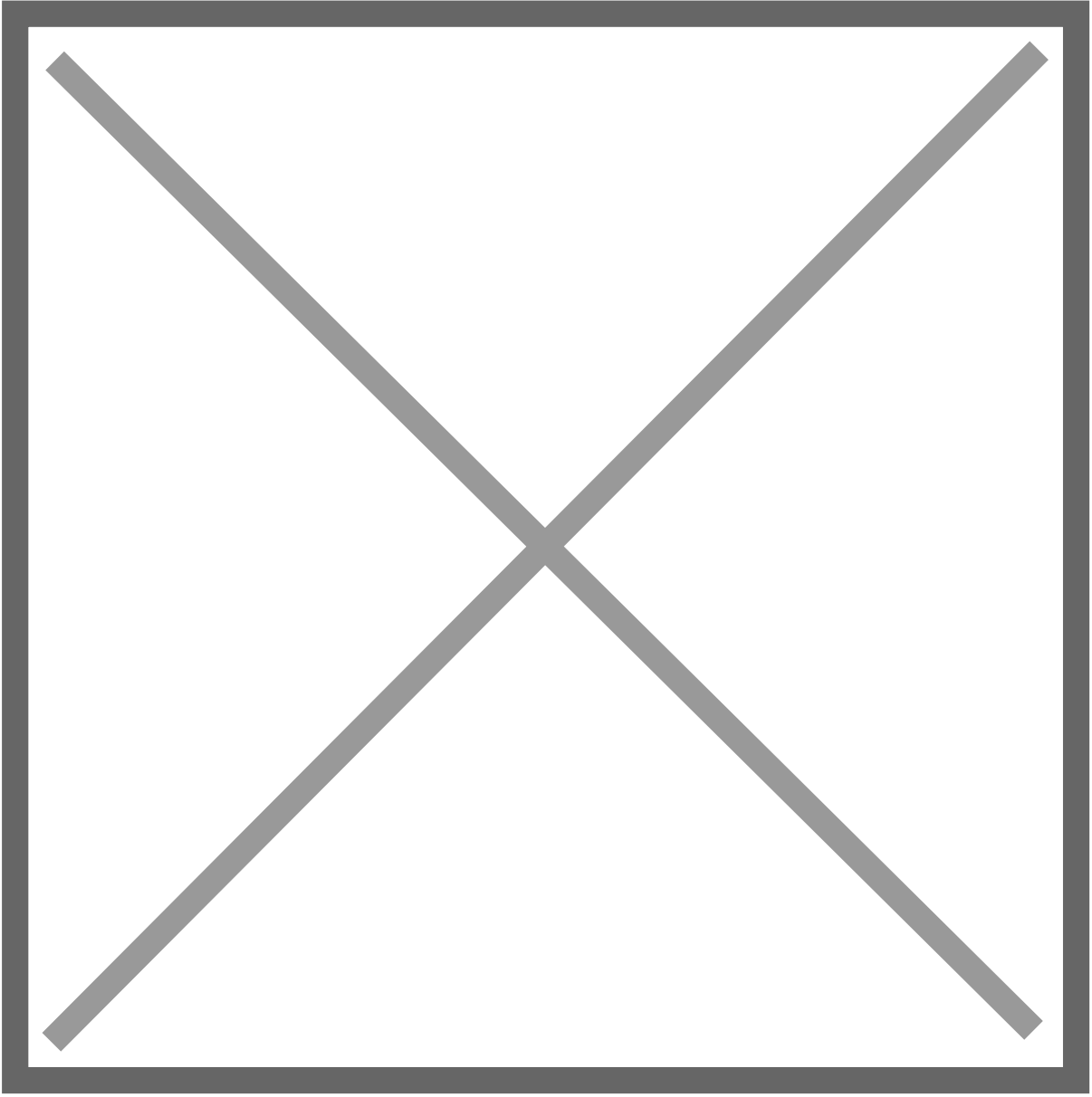
# Avaya SBCE - Upgrade

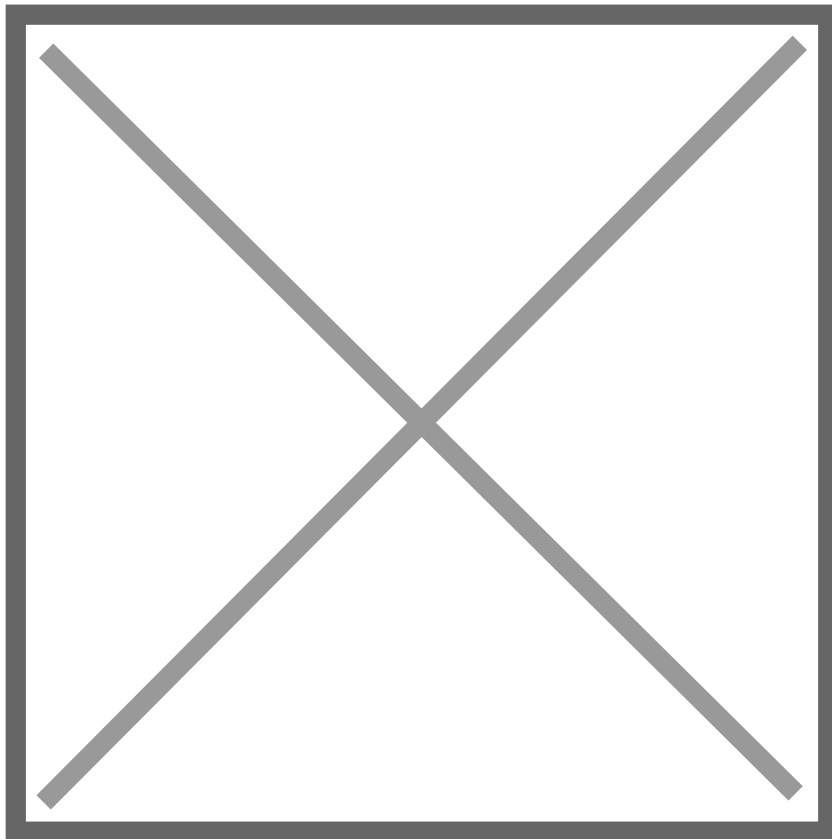
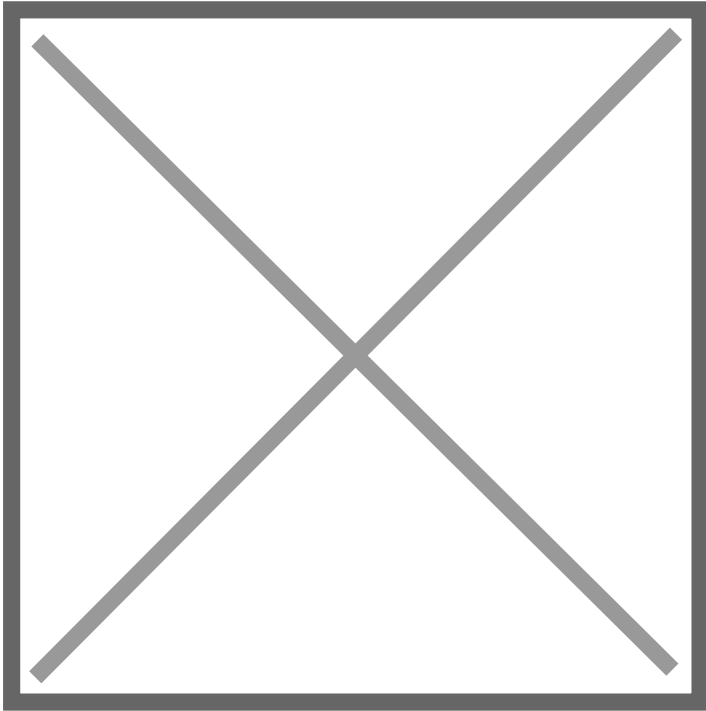
## 8.1.3.0 to 8.1.3.1 in VMWare

In a previous entry an upgrade to Avaya SBCE solution was implemented migrating the backup from the current (old) to new VMs. In this entry an upgrade will be implemented but using the same production VMs.

Its important to mention that this upgrade will take more time to be implemented and more time to be rolled back (as the same production VMs are used and rolled back in case needed).

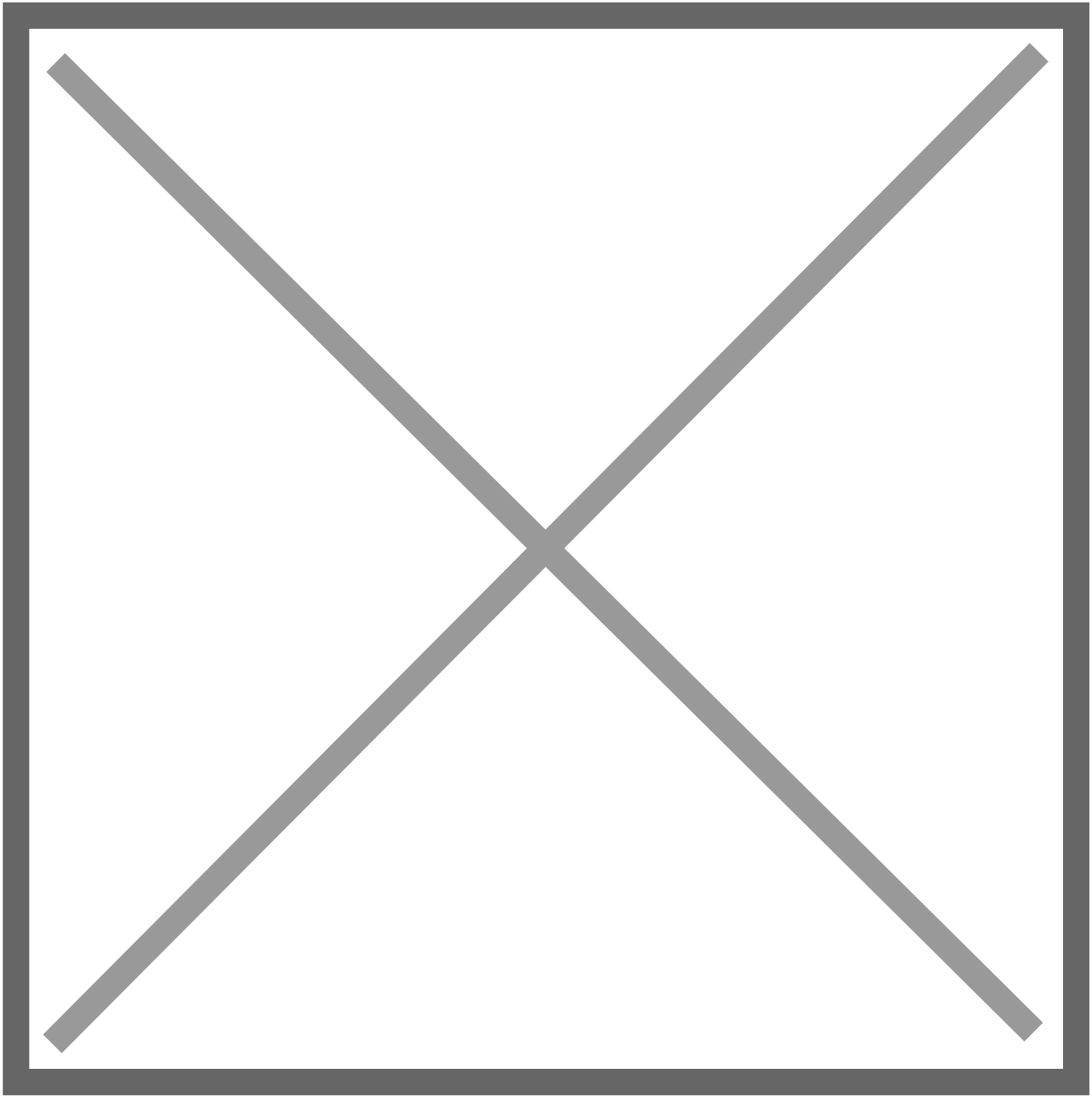
The following images show the current version of the EMS and SBCE (GUI and CLI)



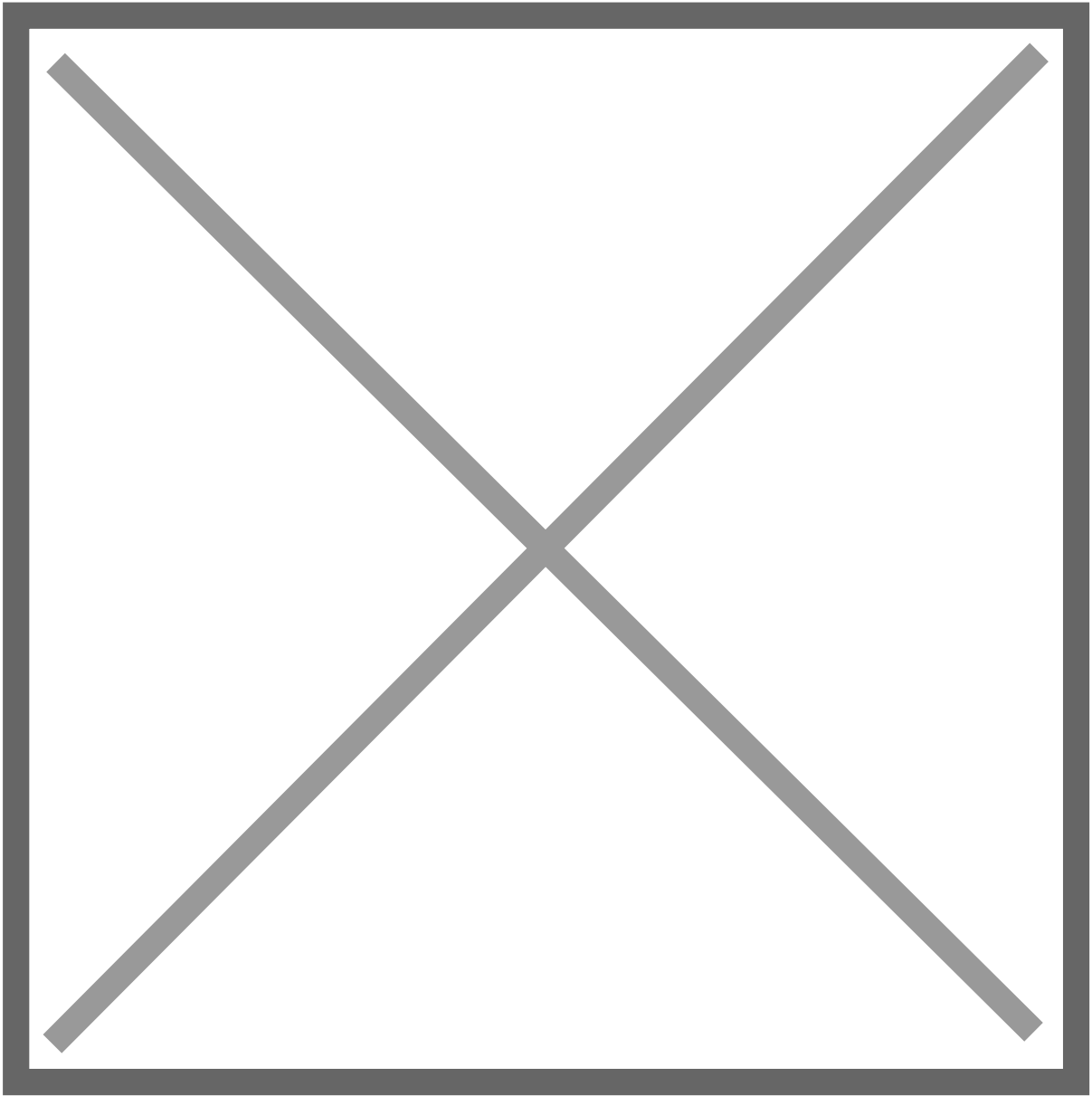


Here is the procedure to upgrade:

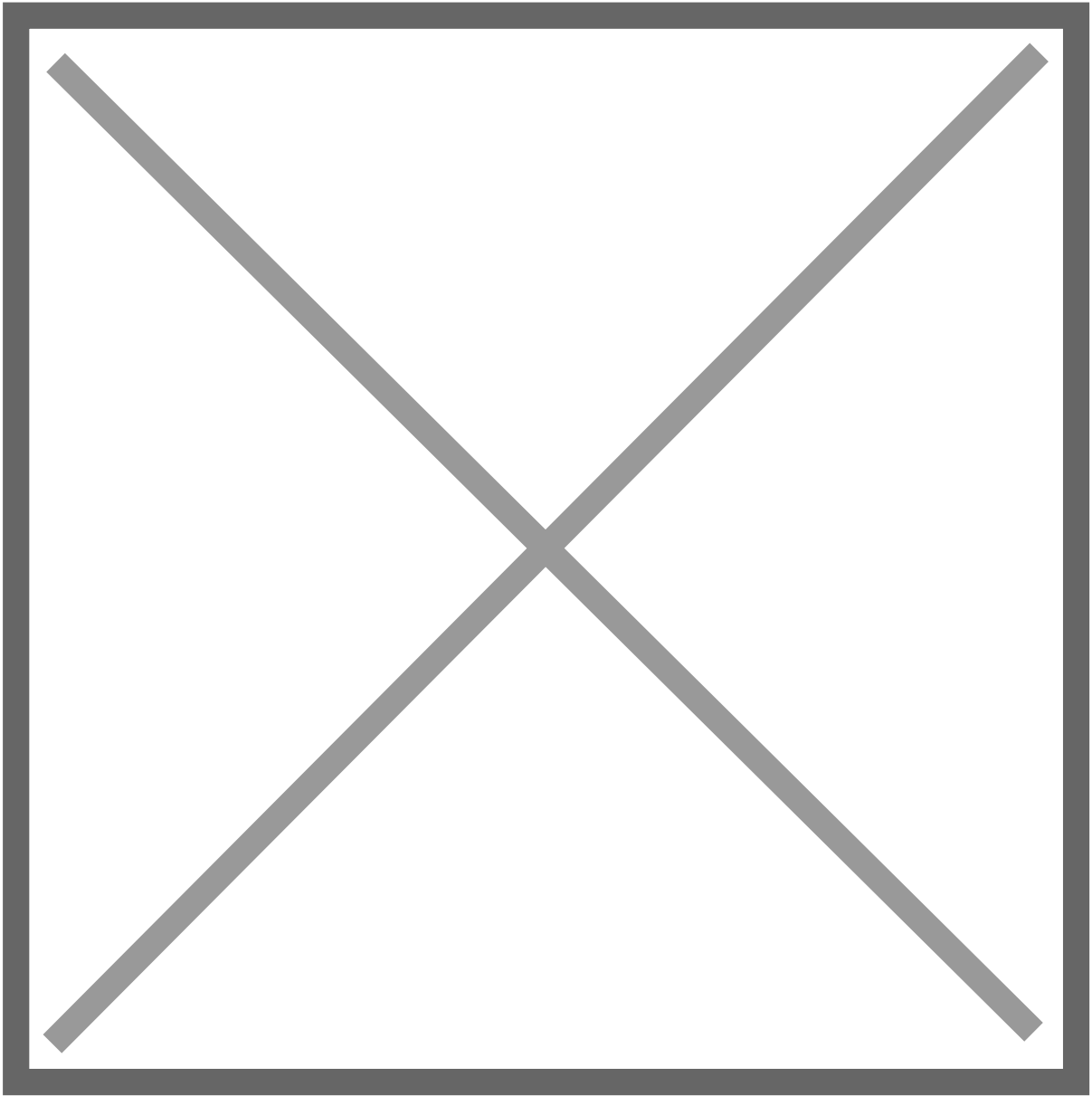
1. Download the files from Avaya Support.
2. Upload upgrade files in ***/archive/urpackages*** in EMS server (here is a screenshot)



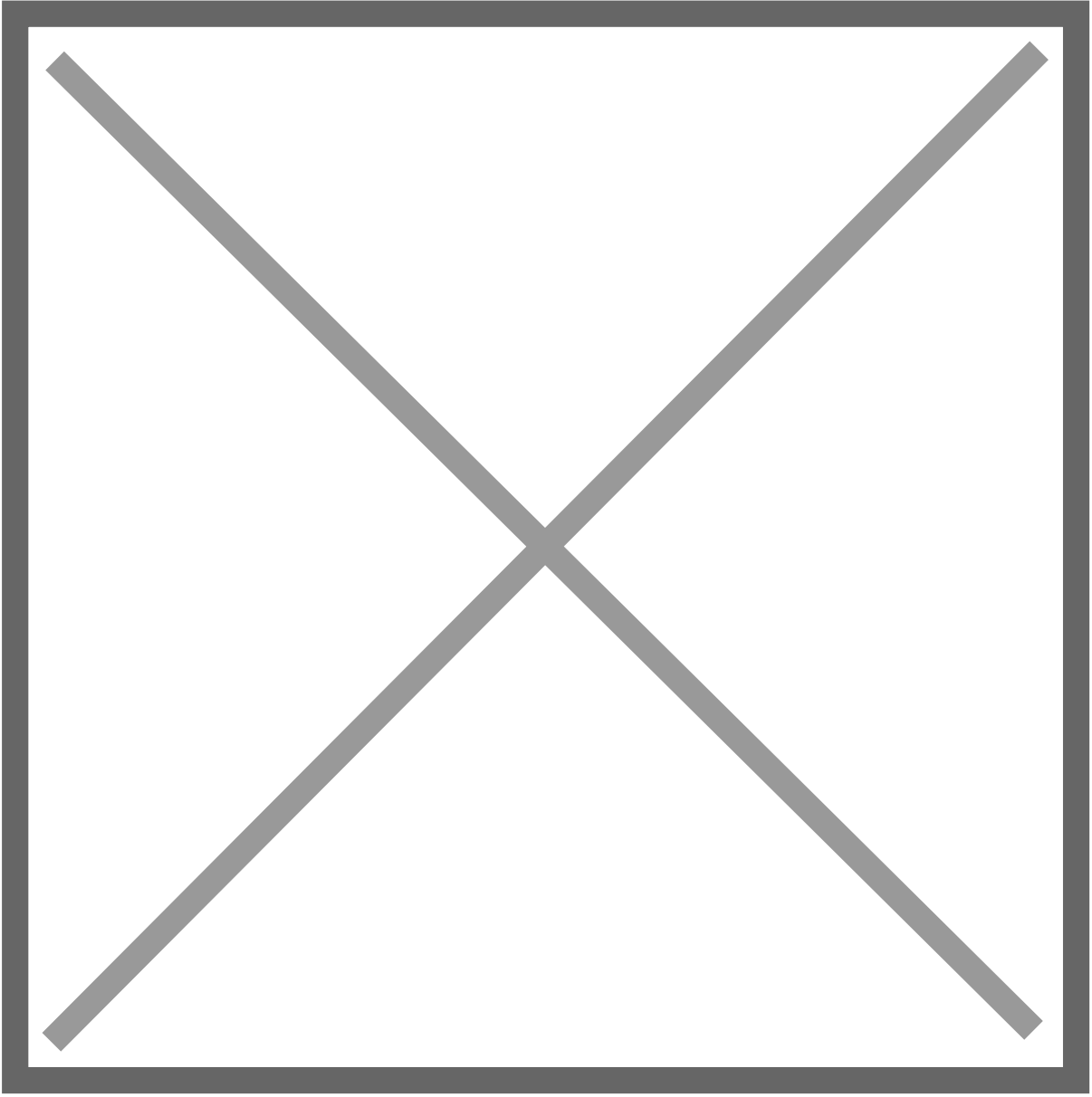
After uploading the files, Software Management will show files and devices to copy files to

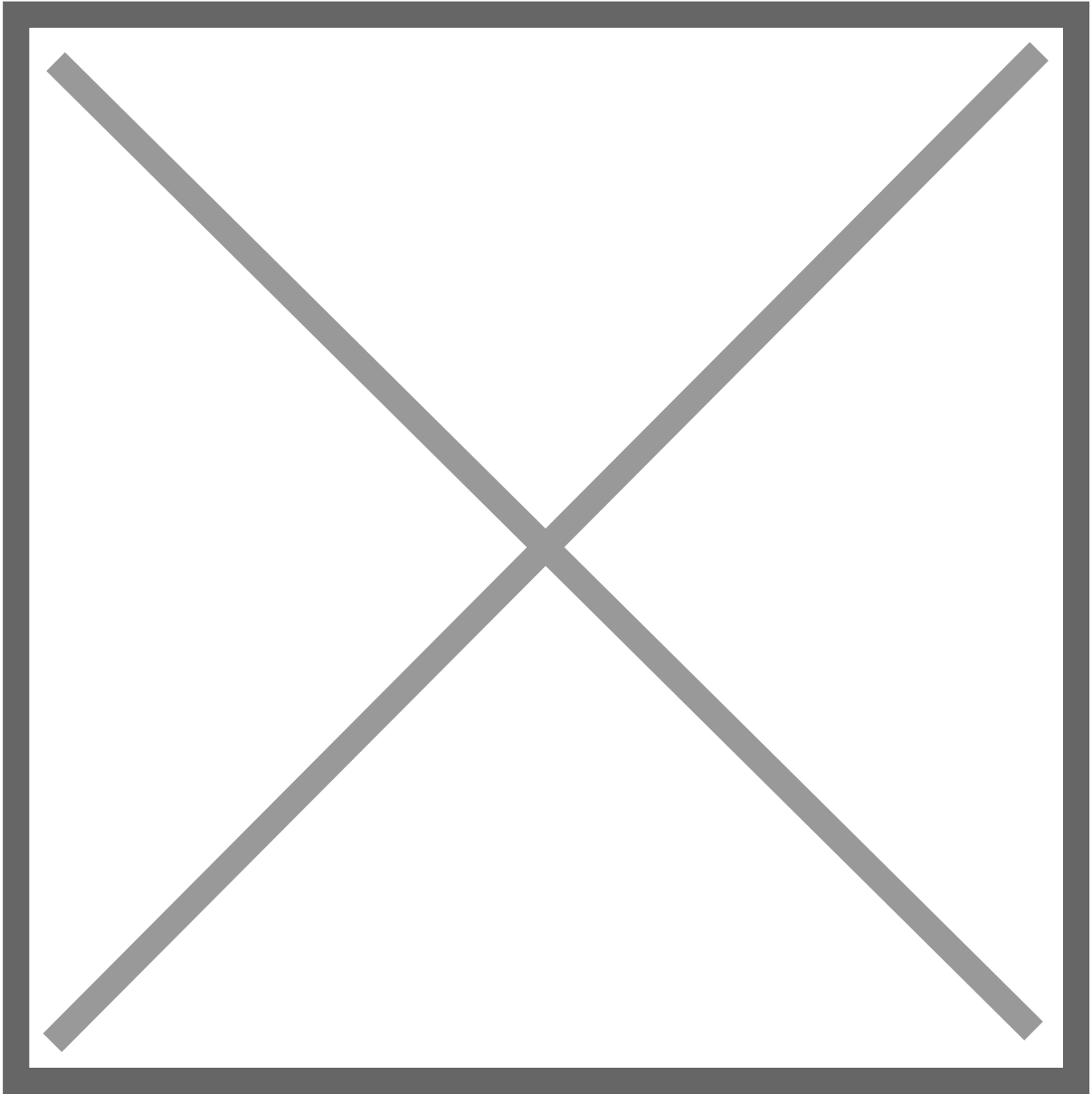


Additionally, the upgrade option is now available under Device Management -> Updates

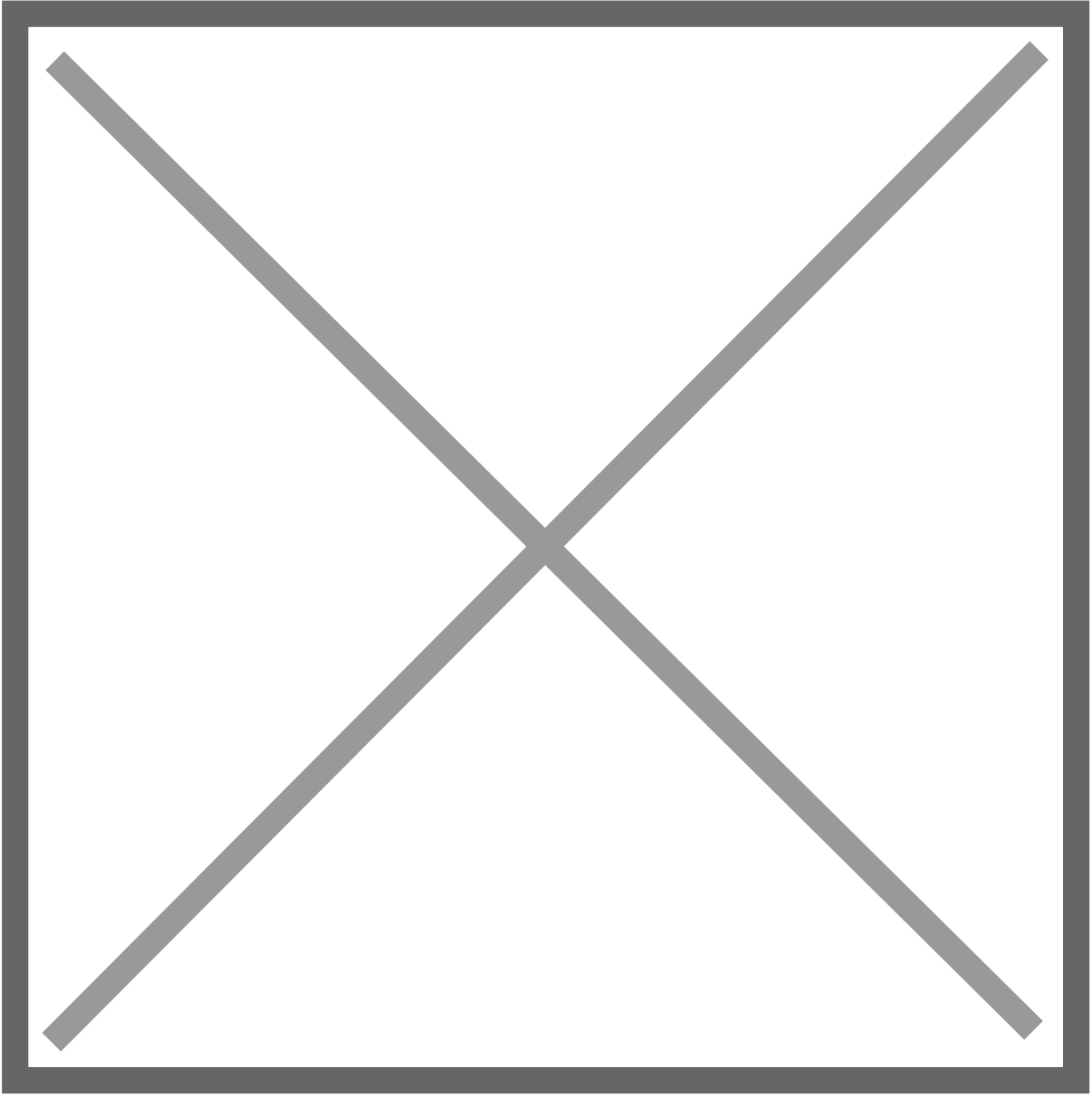


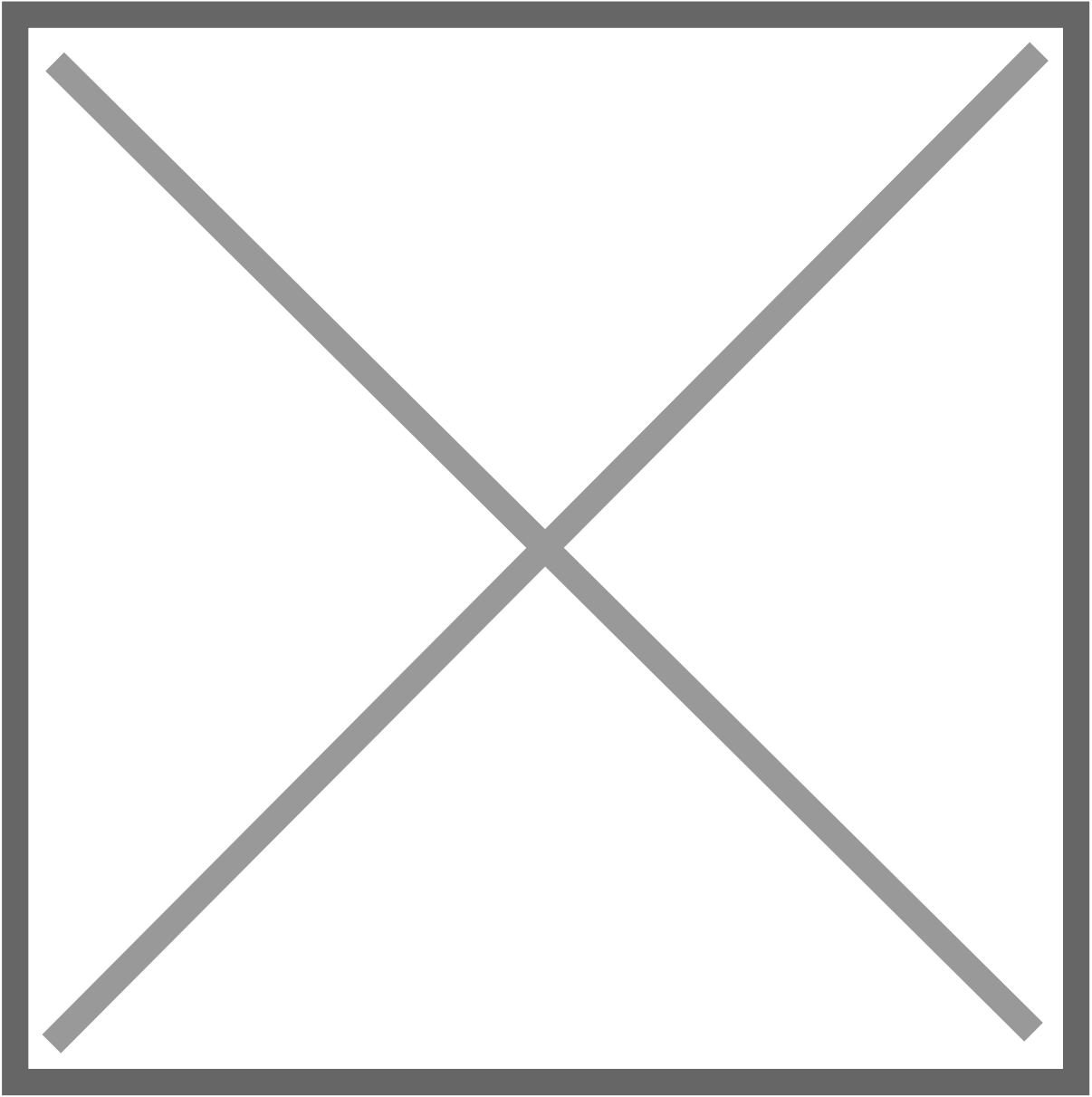
3. Copy the packages to SBCE servers using Software Management to all SBCE servers.

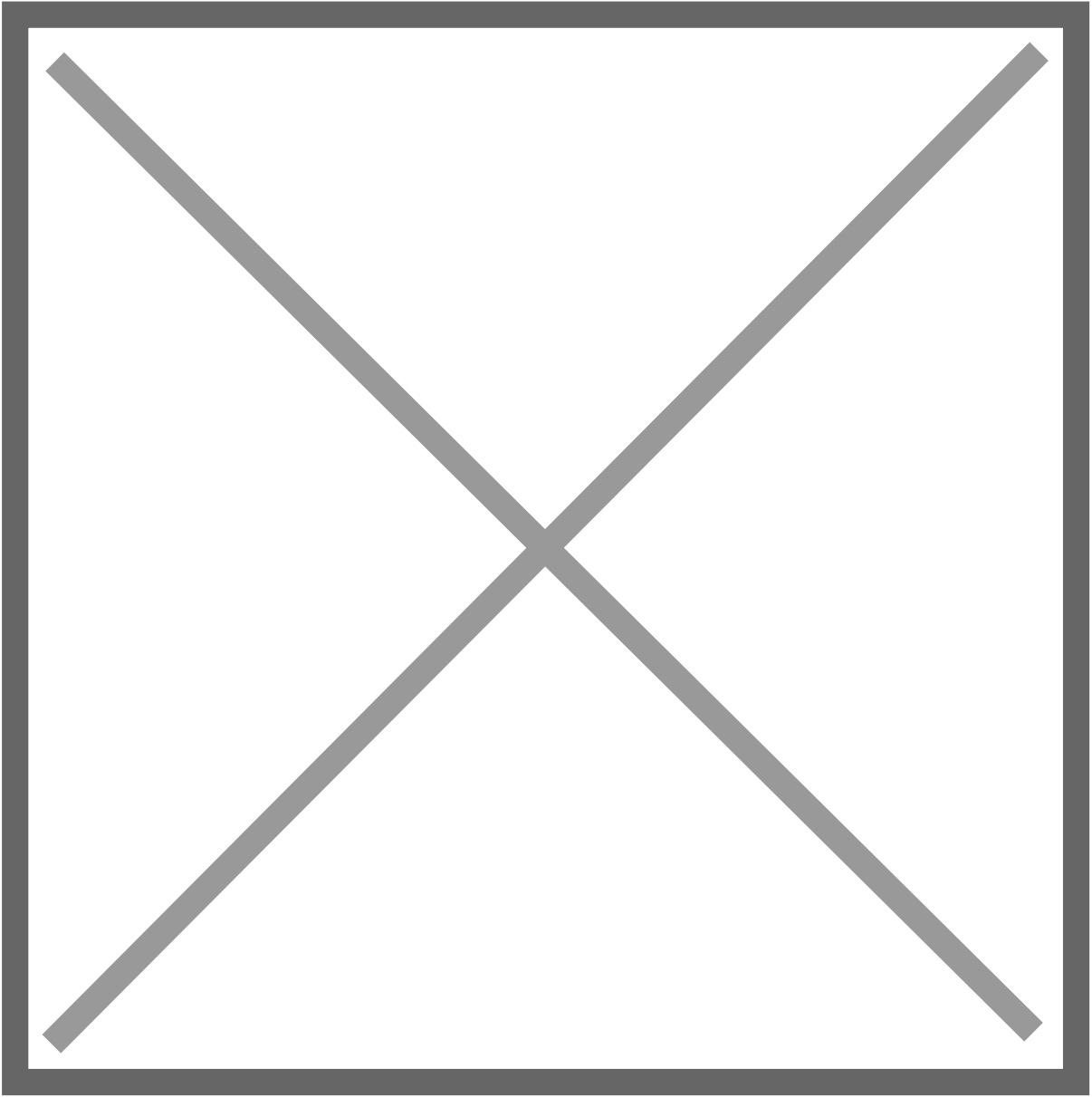


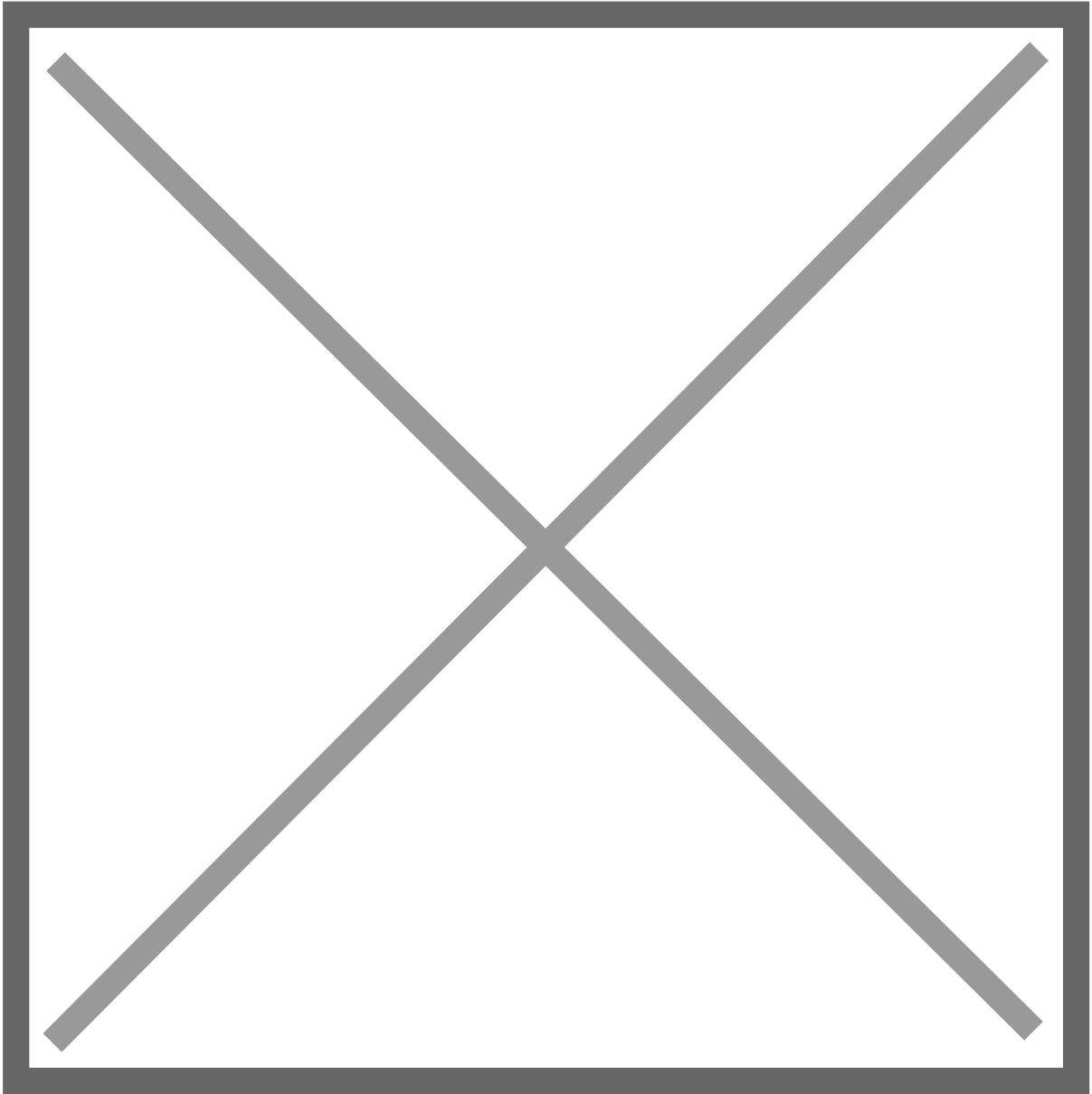


4. Perform upgrade for EMS server first, Device Management -> Updates -> Upgrade

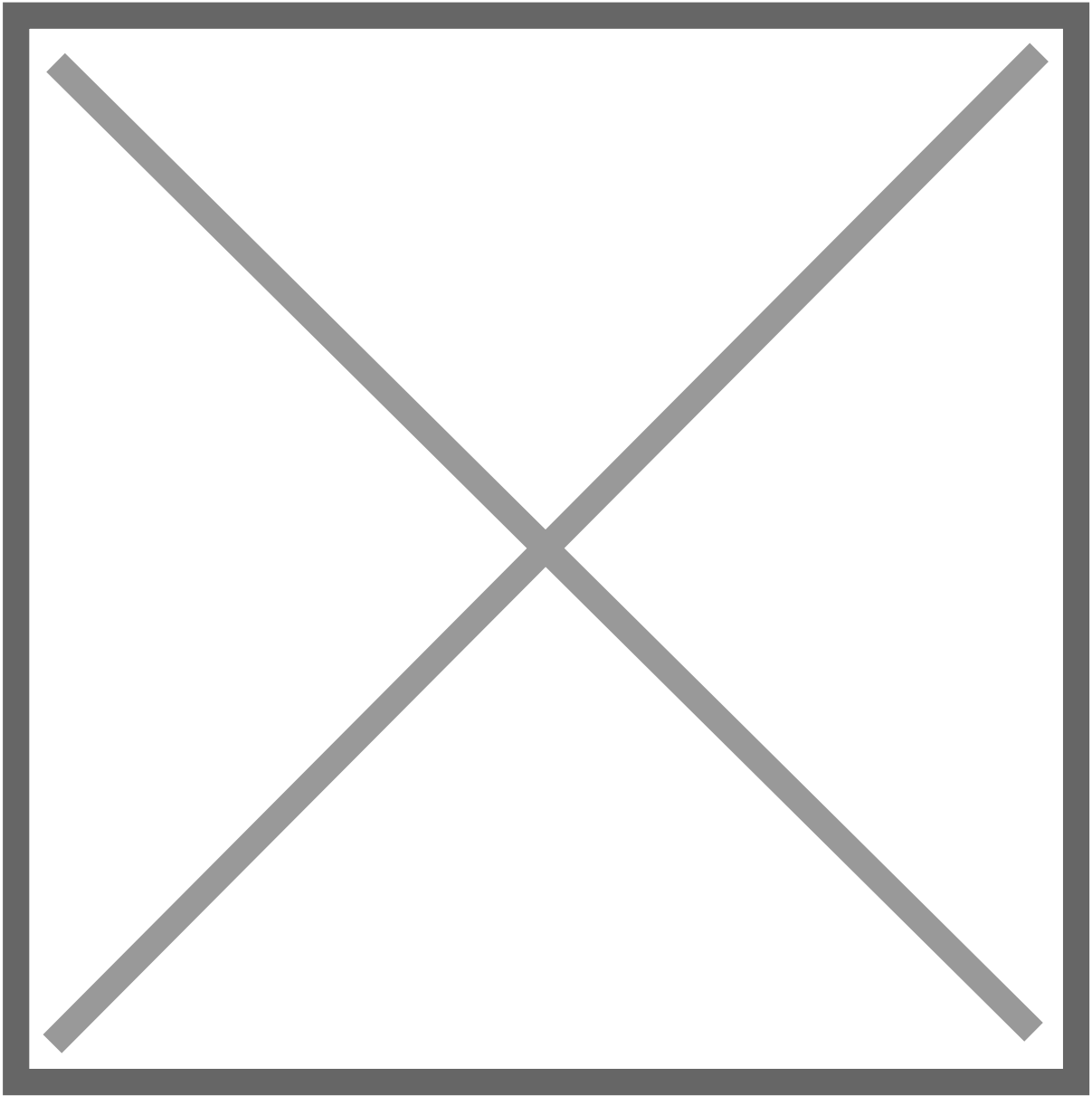




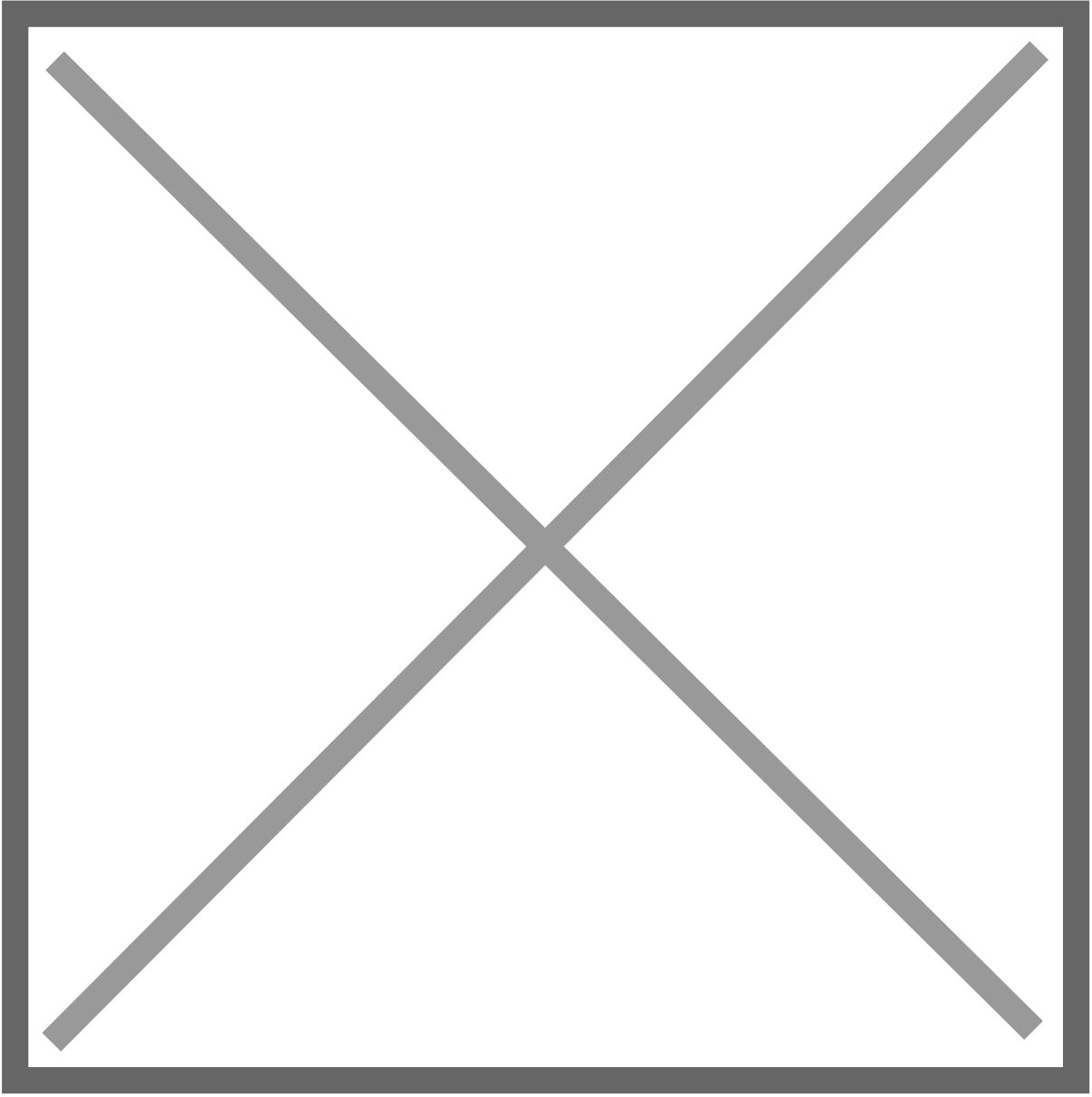


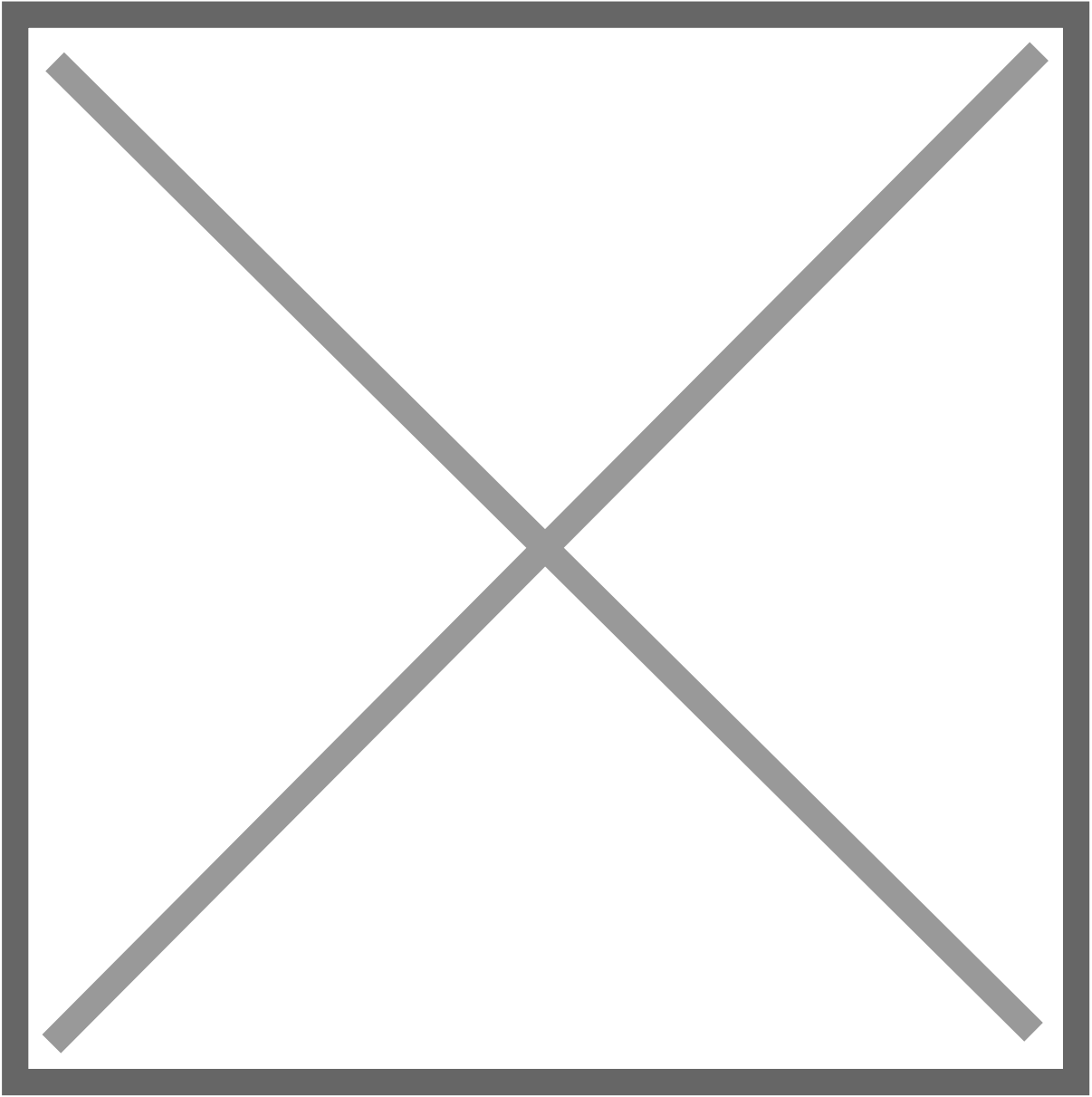


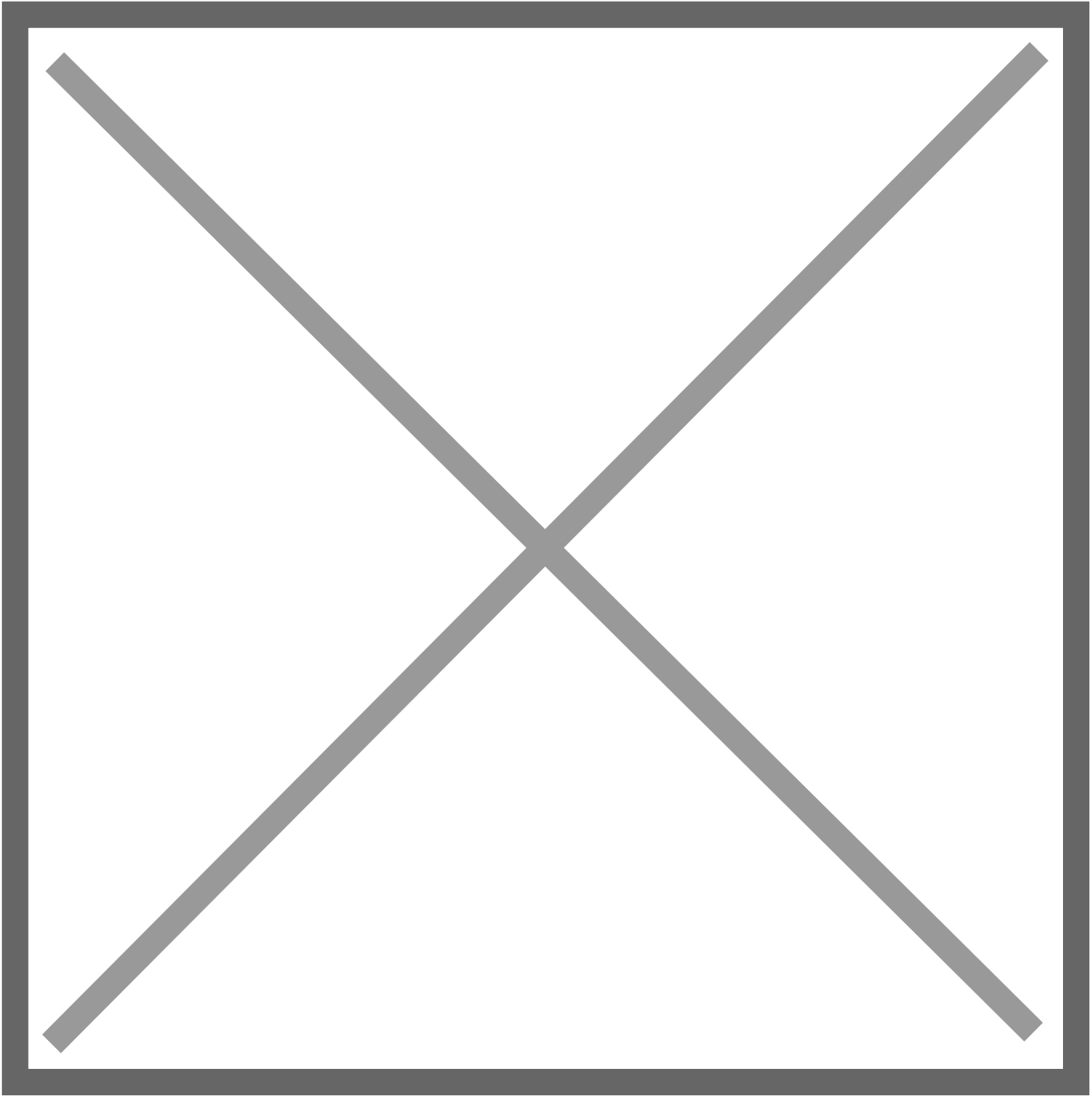
5. Verify upgrade in Device Management (EMS running 8.1.3.1), after EMS upgrade is normal that SBCs are shown as Down.

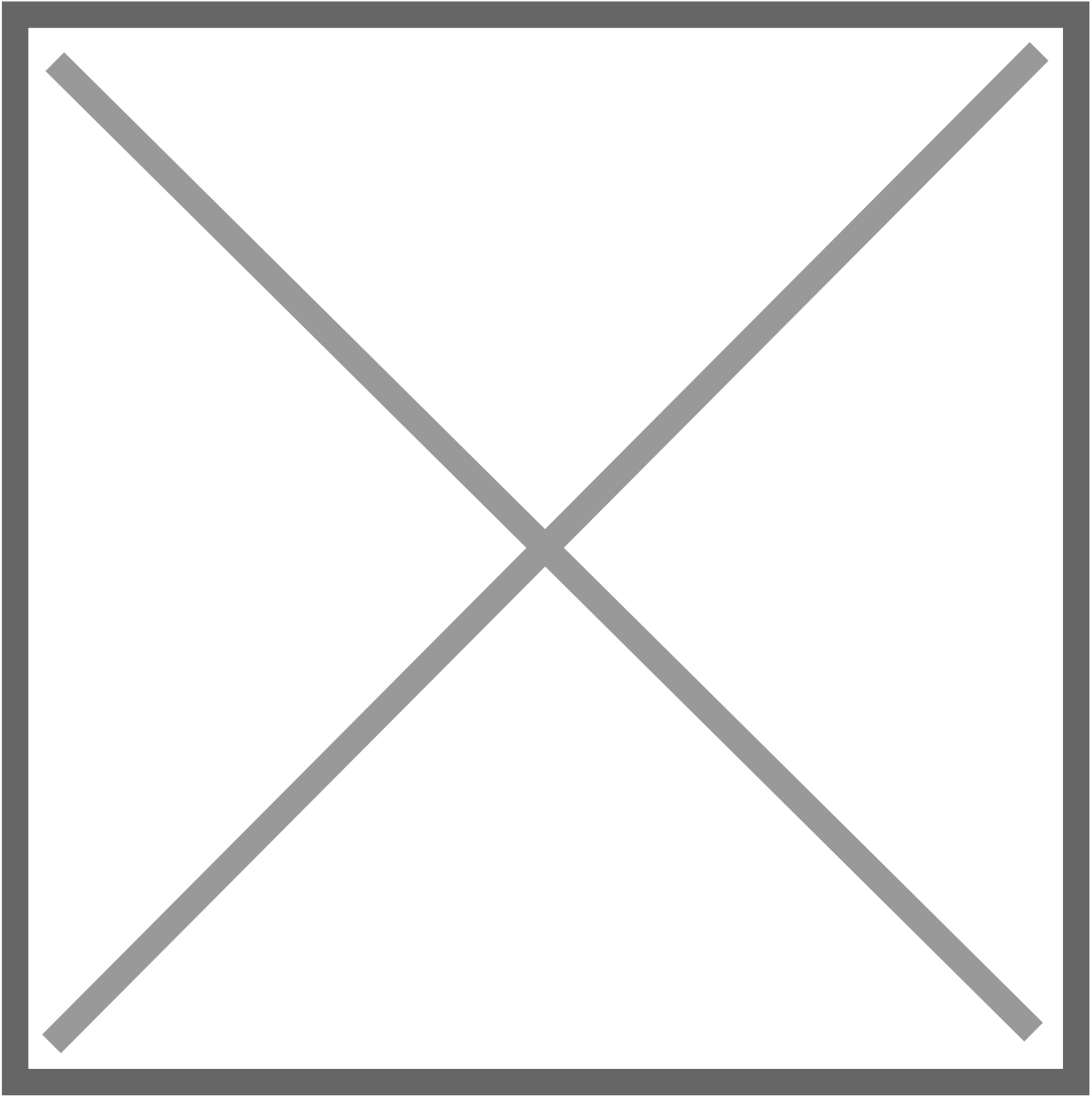


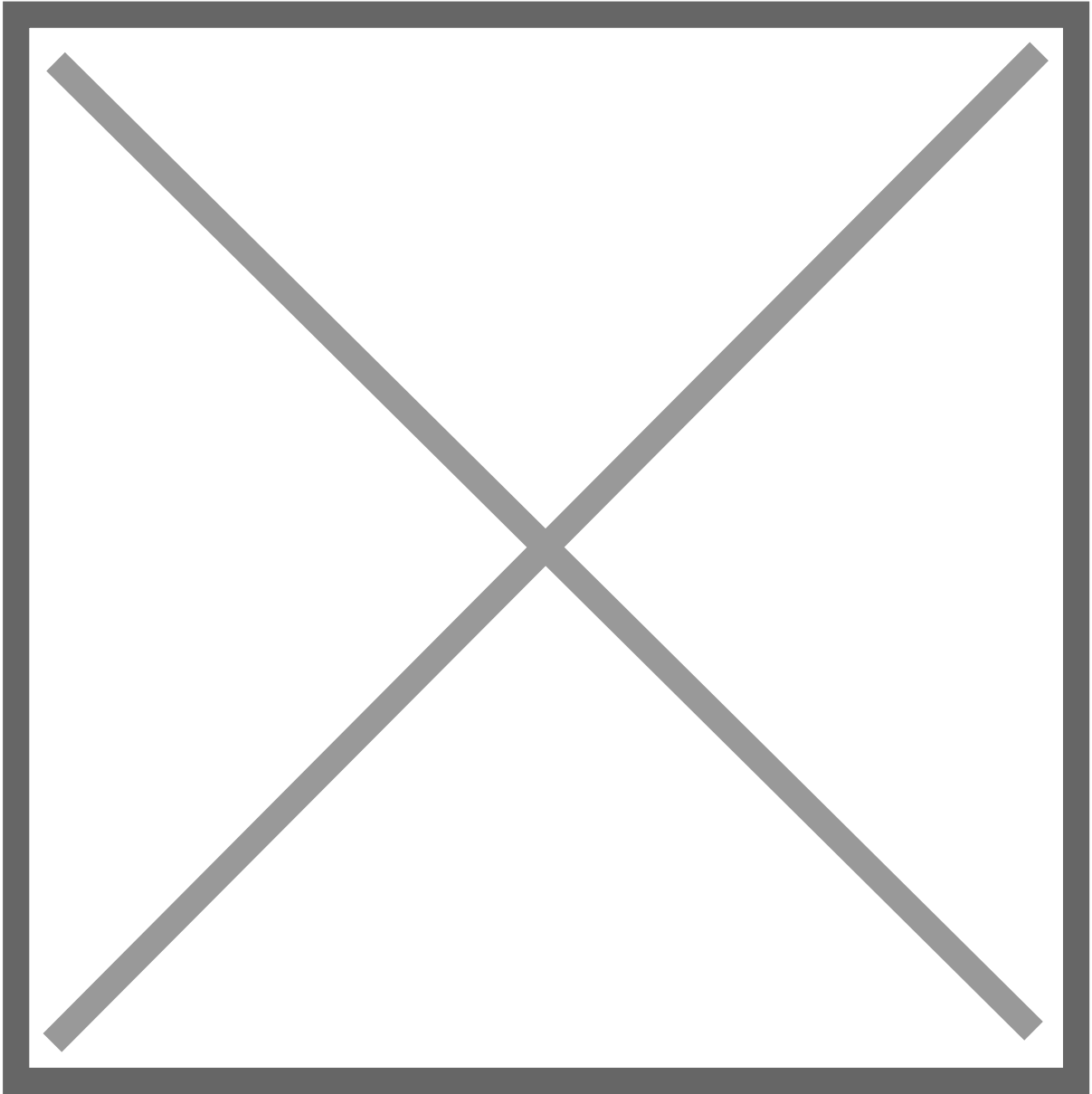
6. Continue upgrading SBCE servers Device Management -> Updates -> Upgrade (start with Secondary servers in HA environment)



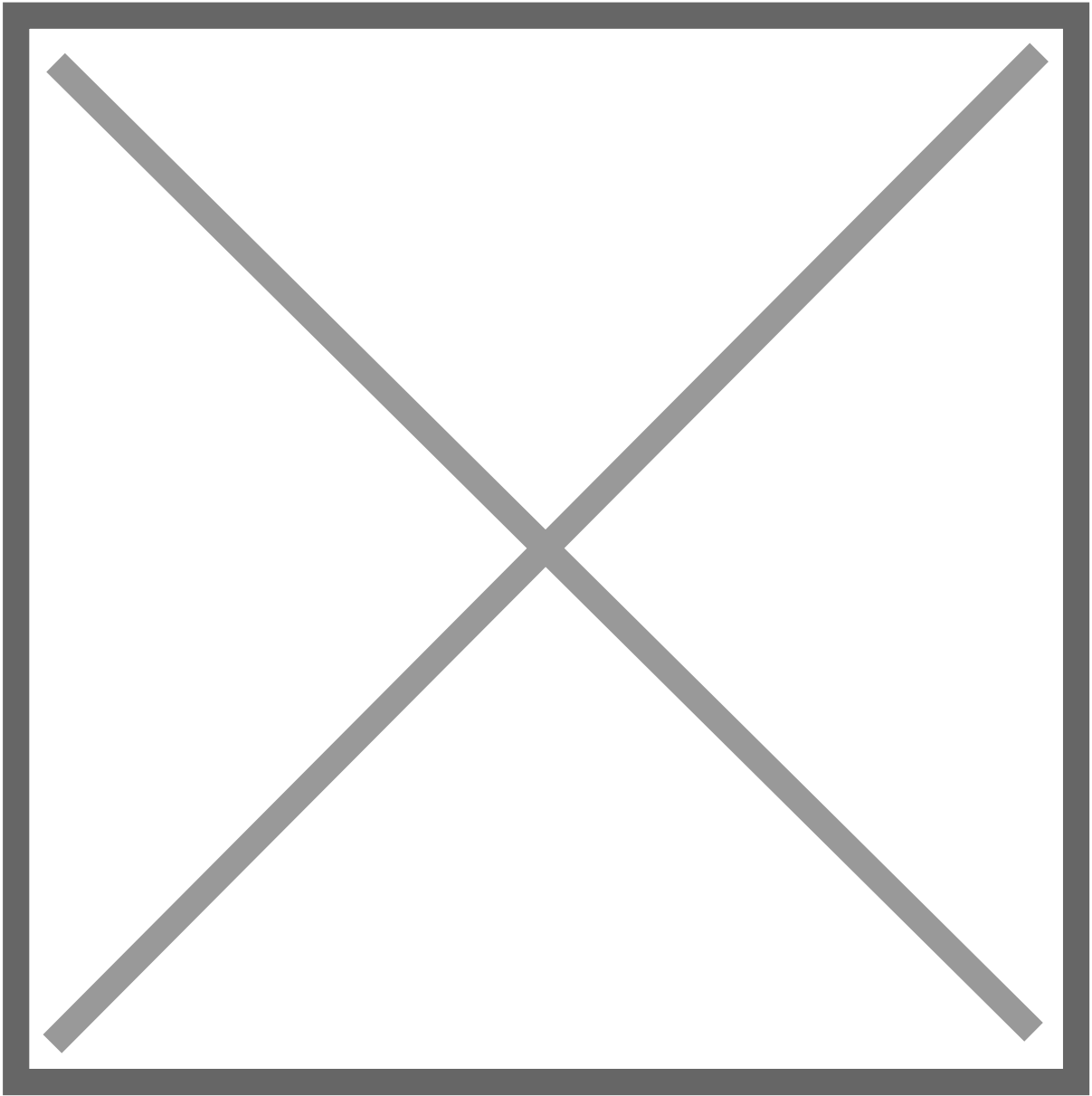




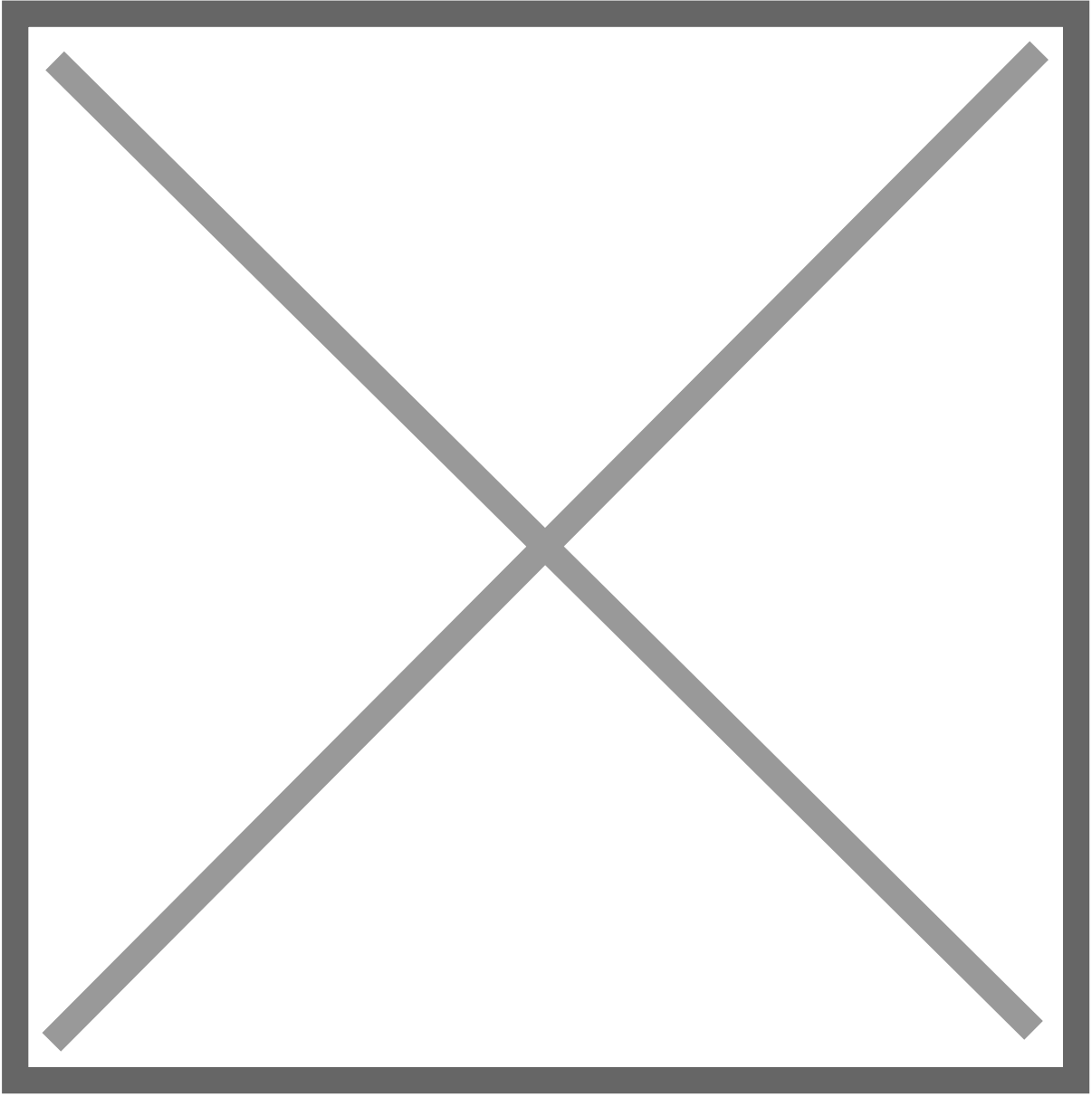


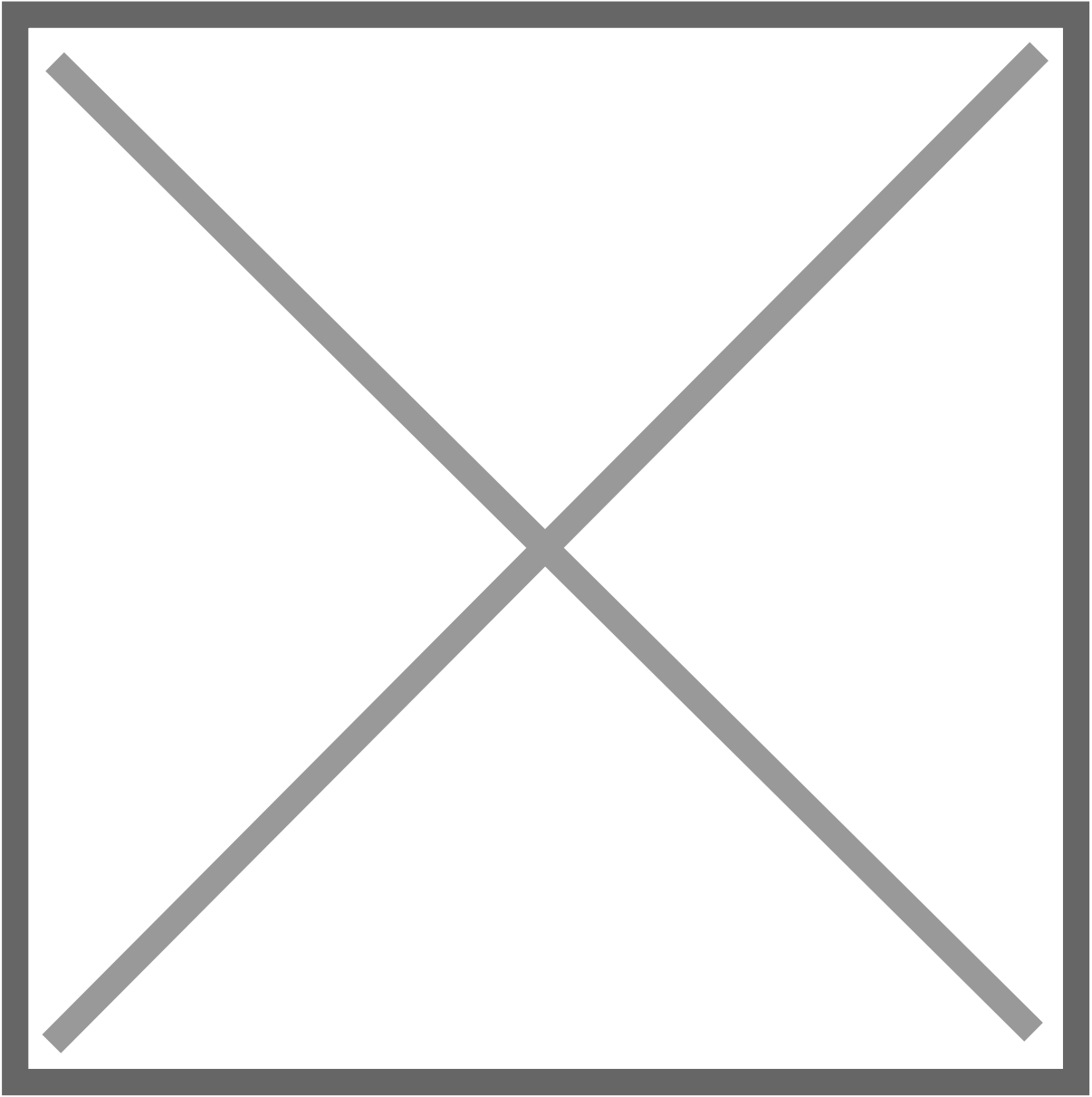


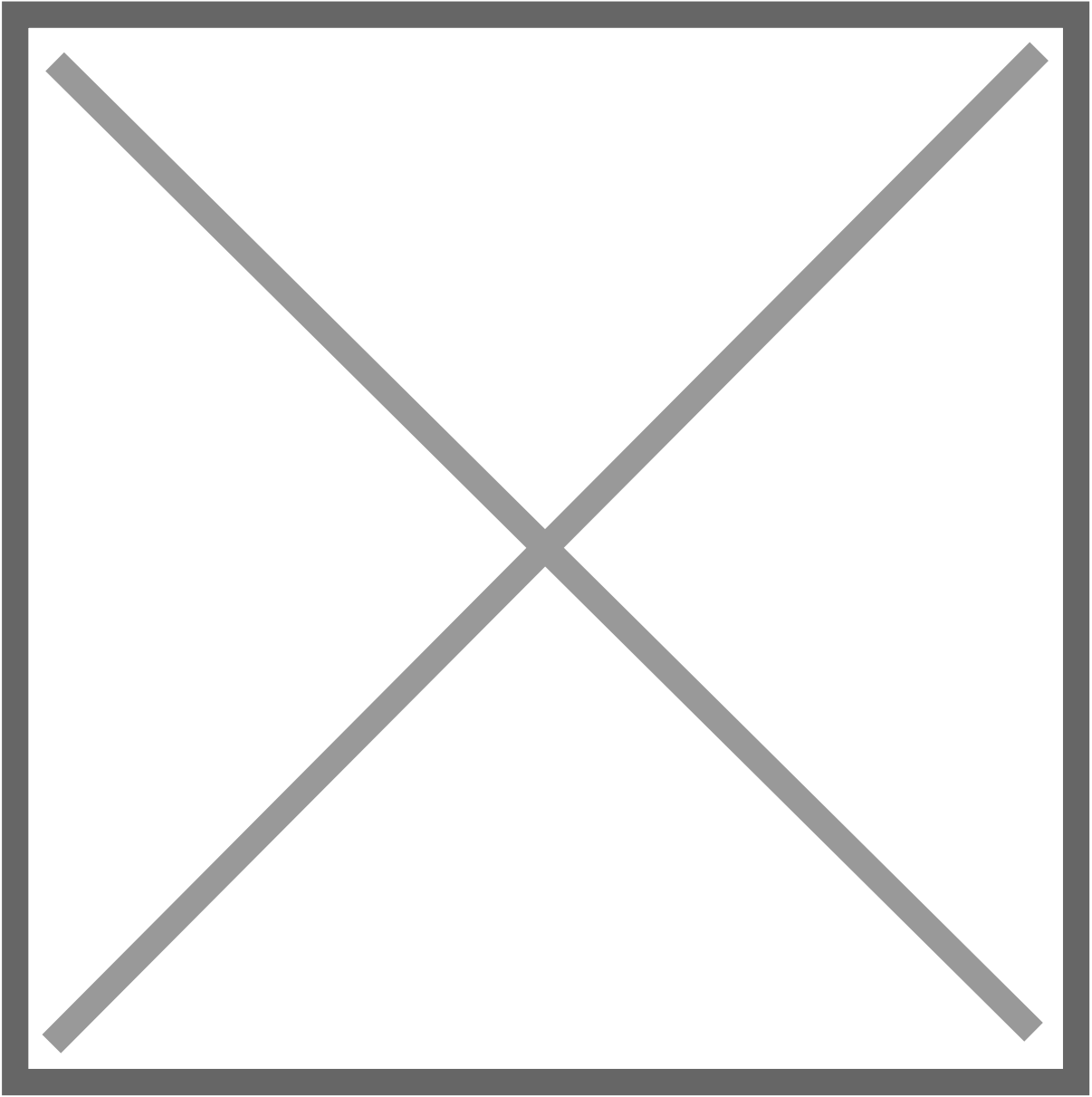
7. Verify upgrade in Device Management (SBCE running 8.1.3.1)

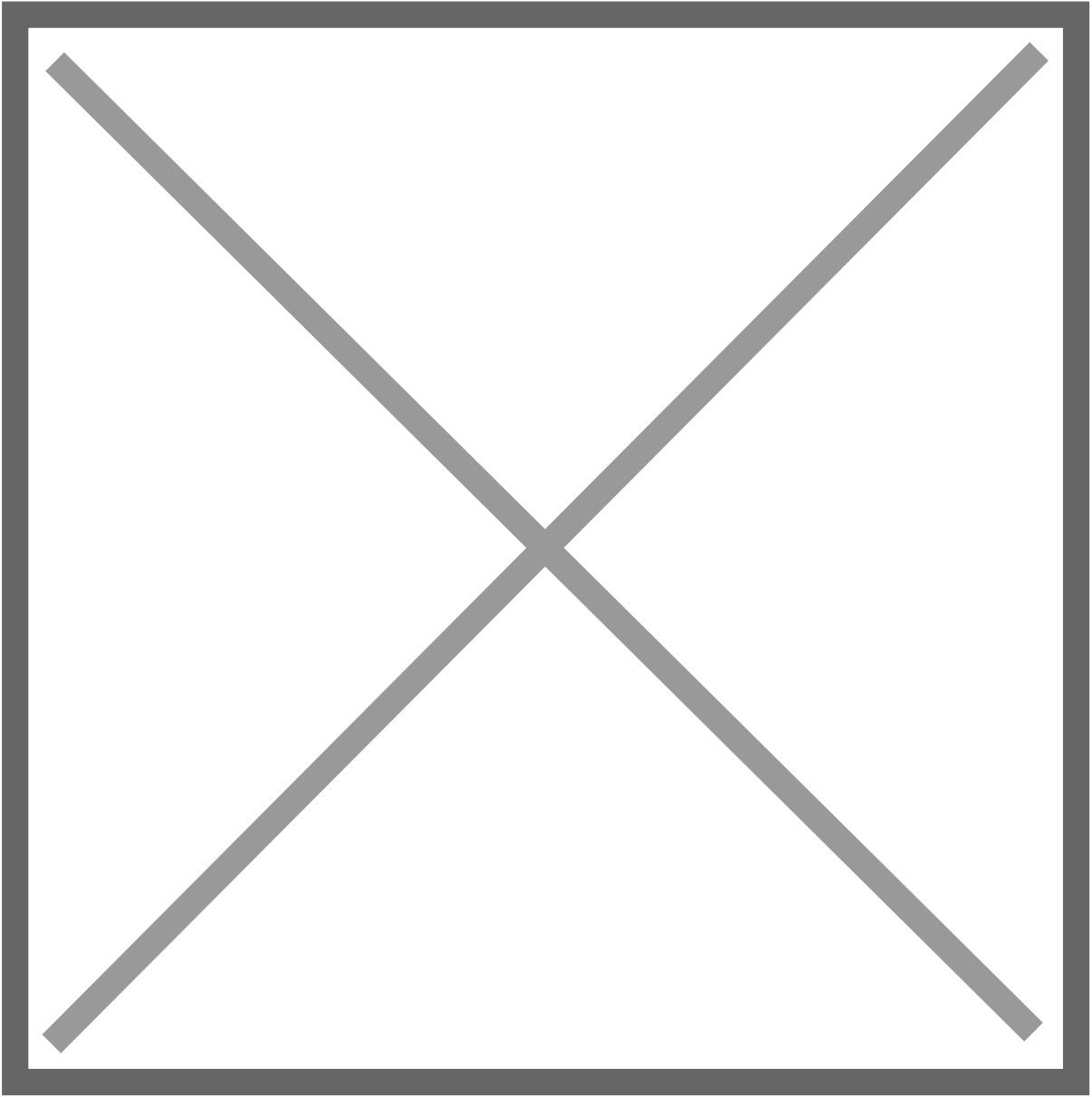


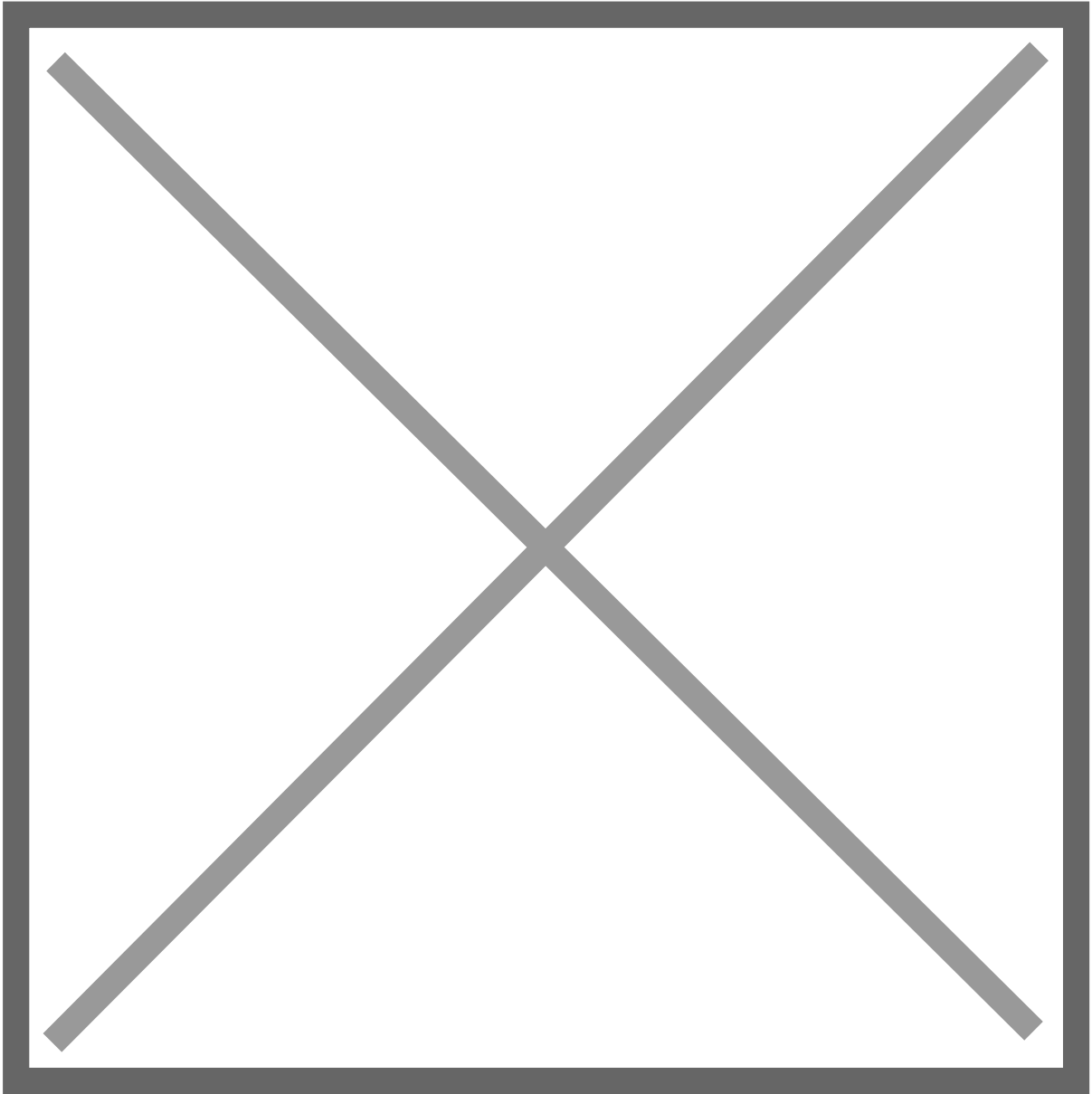
8. Rollback is available under Device Management -> Updates -> Rollback











After SBCE downgrade is completed is normal to be marked as Down.

EMS needs to be downgraded.

