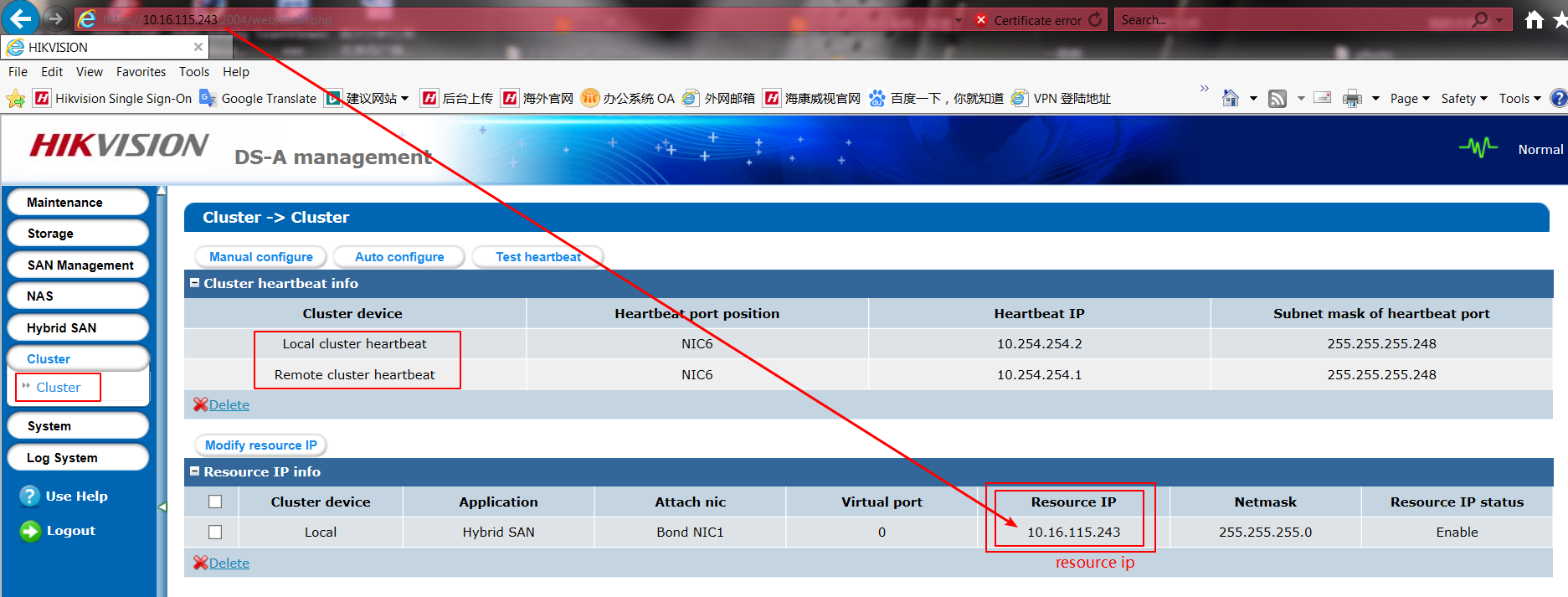
**How to Upgrade Network Storage Firmware (231-4MA&231-4MB to 231-4MC)**

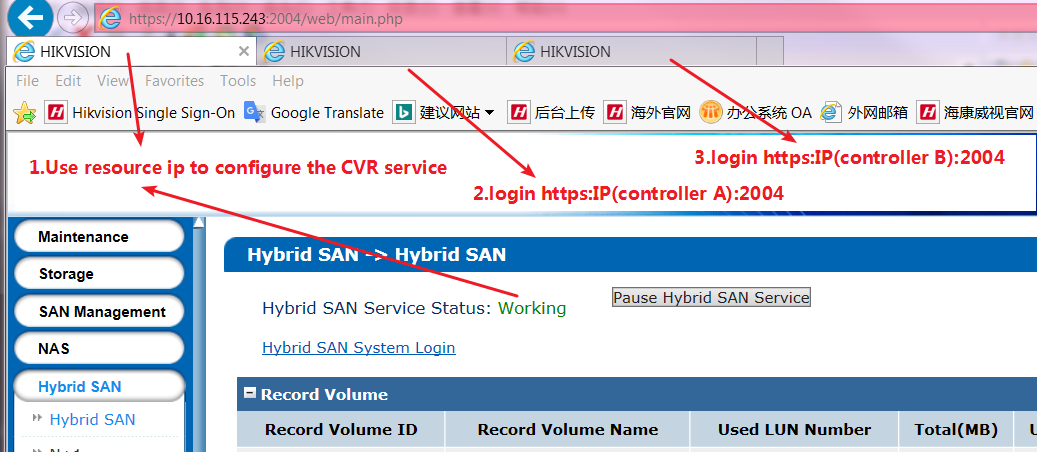
**For dual-controller device**

Note: Firstly, make sure your dual-controller device deploy in correct mode. As dual-controller device have two controllers, each controller have an IP separately , and we also need create a resource IP , so before you upgrade for the dual-controller device , let it work in dual-controller mode. You can check the Cluster interface in the 2004 page shown as below.

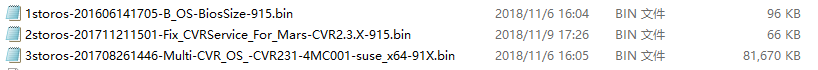


The device should upgrade to **231-4MA&231-4MB** first. And it only allow to upgrade when device CVR status is **working.** So the right step should be

1. Login resource ip to check CVR service (<https://IP> (resource):2004) .Make sure the CVR service status is Working.
2. Then you need to upgrade in two controller separately, login in <https://IP> (controller A):2004 and <https://IP> (controller B):2004; Do the upgrade operation in these two controller physical ip.



**231-4MC Firmware Package:**

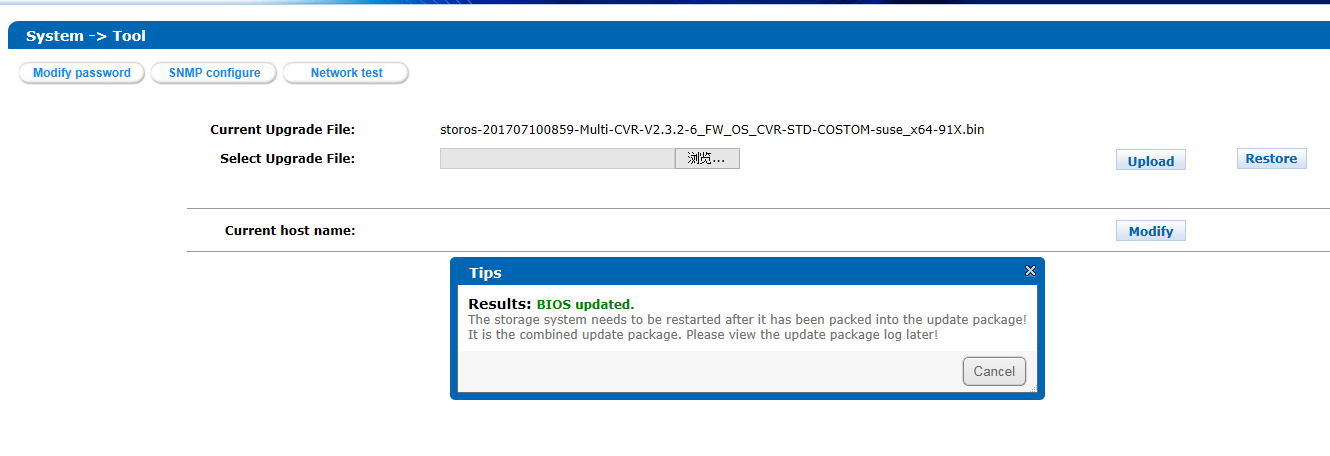


Steps:

Step1: Upgrade 1storos-201606141705-B\_OS-BiosSize-915.bin in controller A, then do same operation in controller B

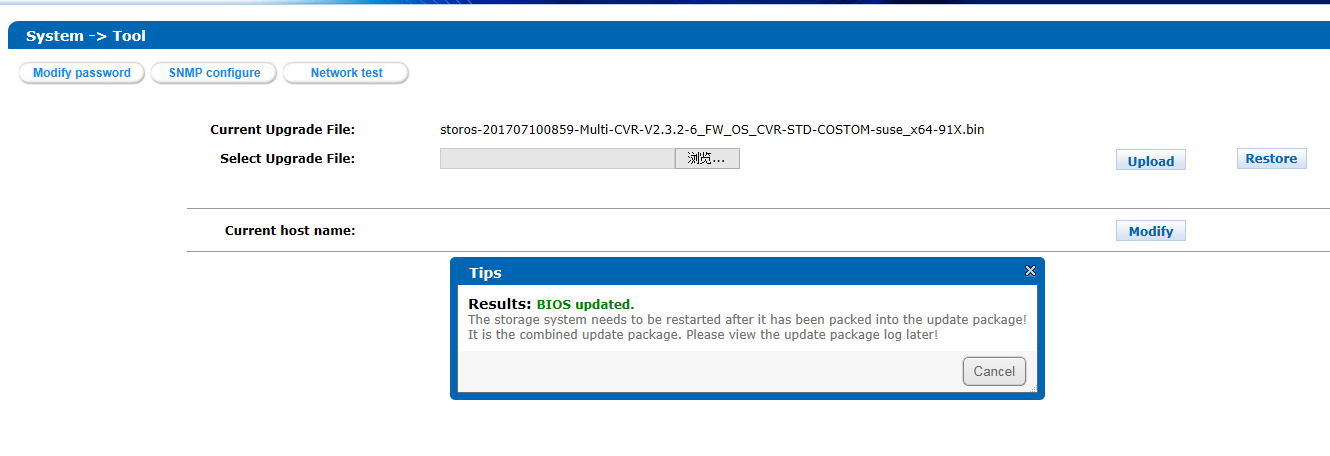
Controller A:

Please wait several minutes until it shows below tips

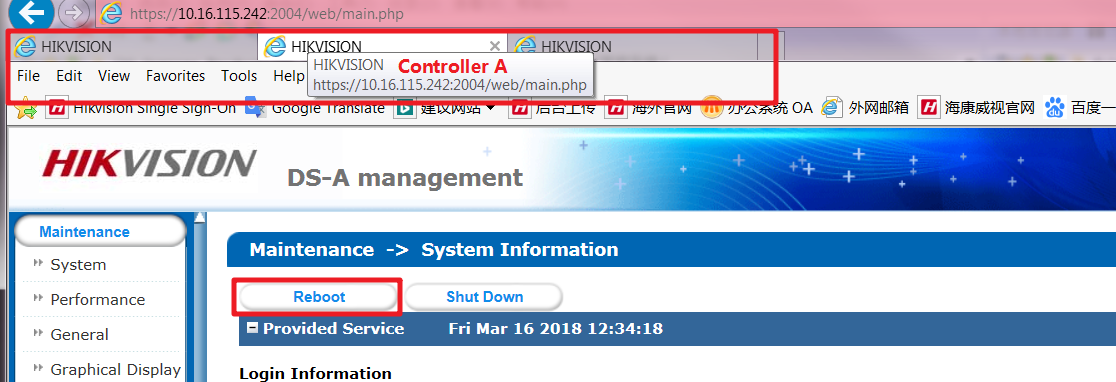


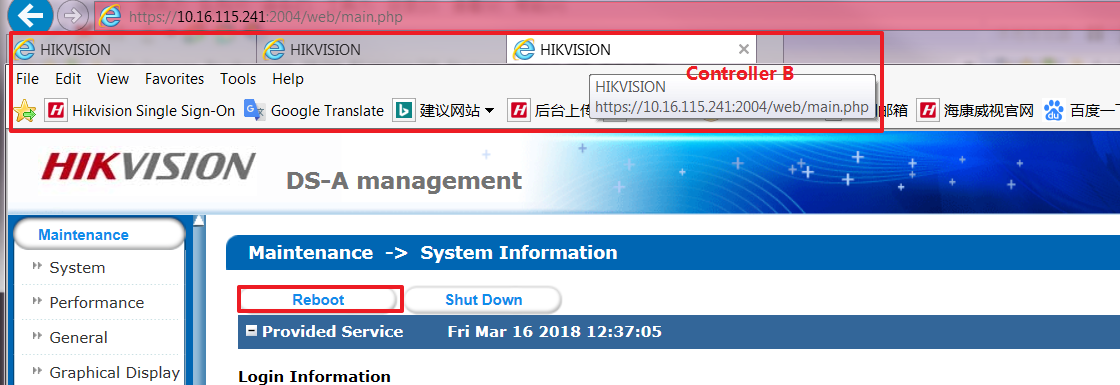
Controller B:

Please wait several minutes until it shows below tips



Step2: Reboot both of controller A and controller B

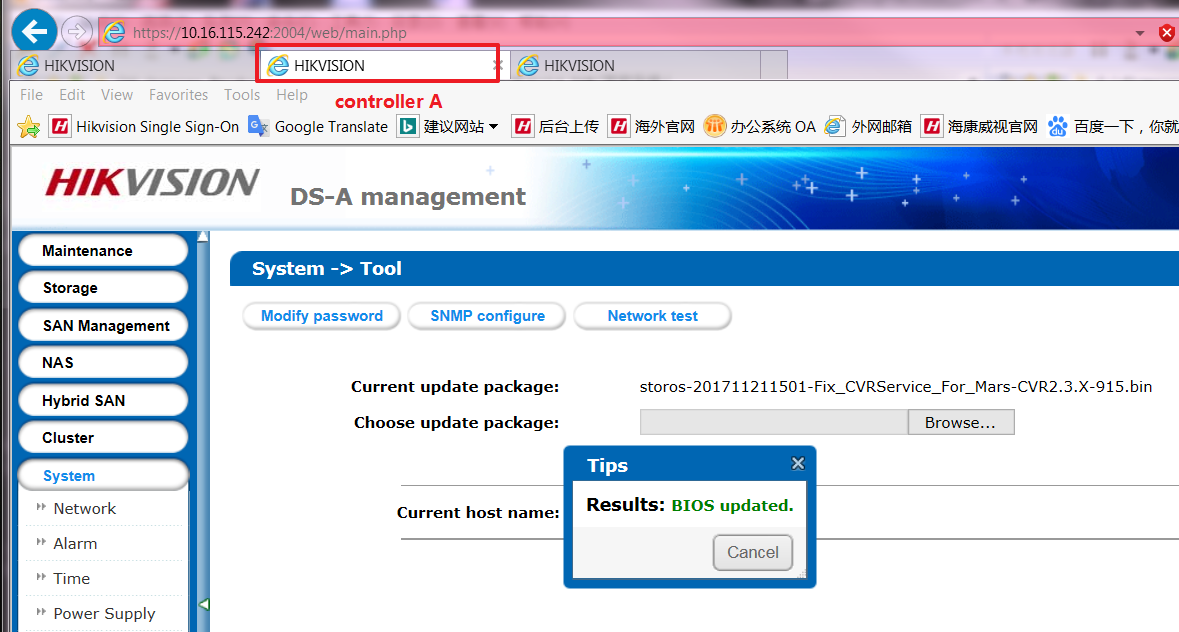




Step3: Upgrade 2storos-201711211501-Fix\_CVRService\_For\_Mars-CVR2.3.X-915.bin (Special for dual controller device ) in controller A, then do same operation in controller B

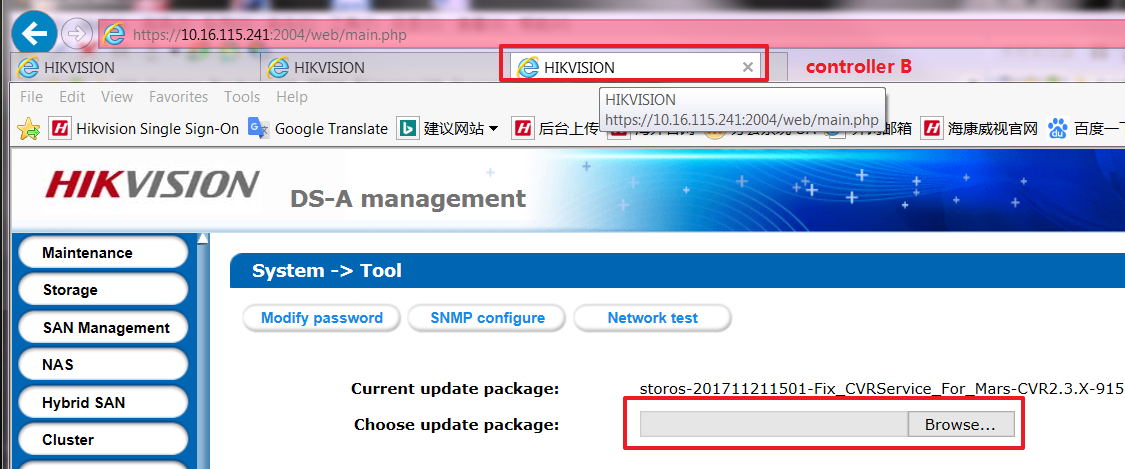
Controller A:

Please wait several minutes until it shows below tips



Controller B:

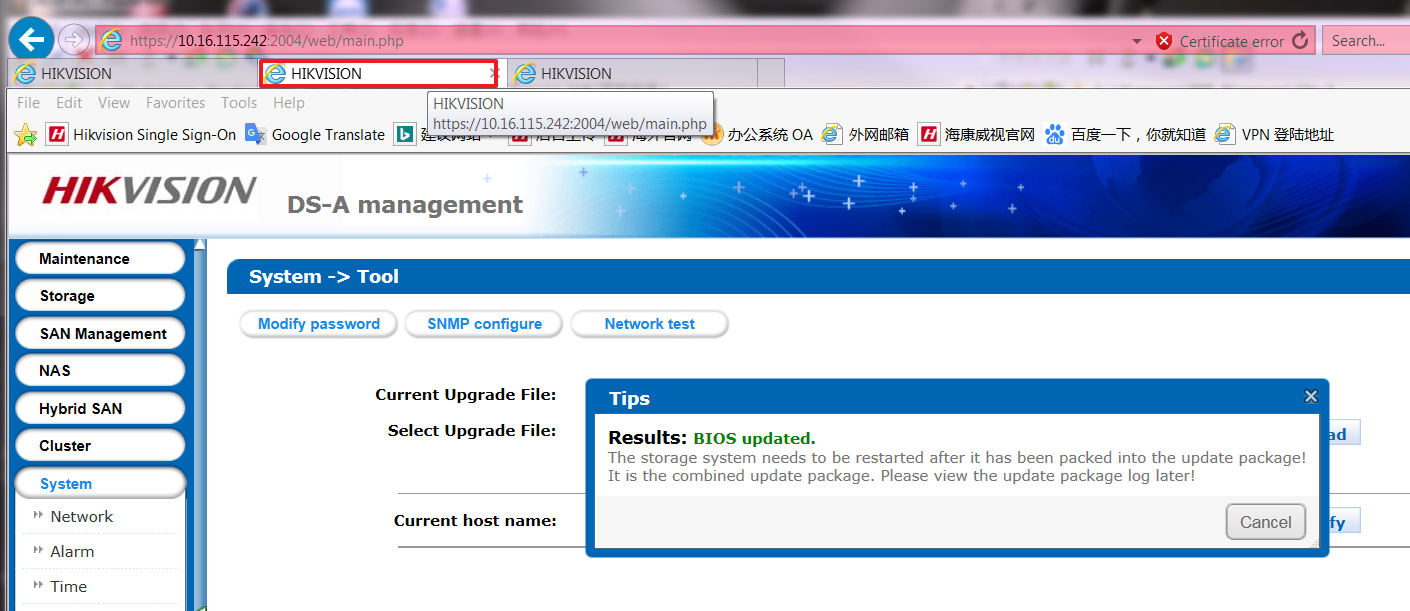
Please wait several minutes until it shows below tips



**Step4**: **Upgrade 3storos-201708261446-Multi-CVR\_OS\_-CVR231-4MC001-suse\_x64-91X in controller A, then do same operation in controller B**

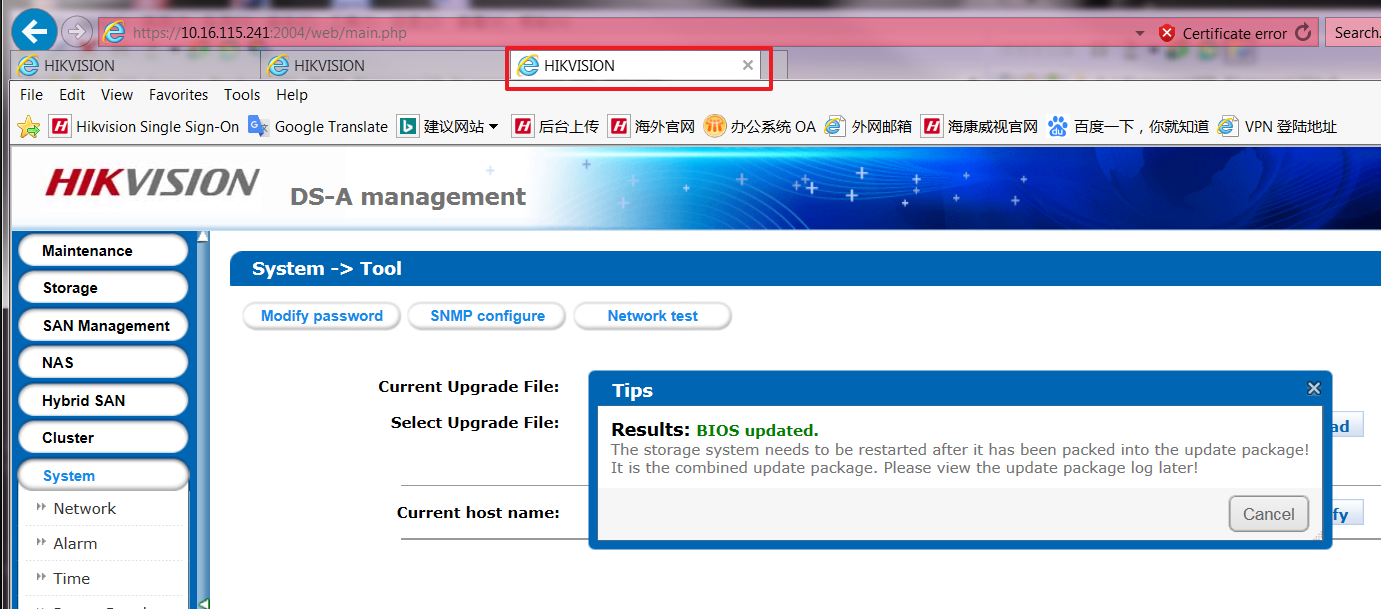
Controller A:

Please wait several minutes until it shows below tips



Controller B:

Please wait several minutes until it shows below tips



**Step5:** **Reboot both of controller A and controller B.**

**Upgrade done：login resource IP and check the version**

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