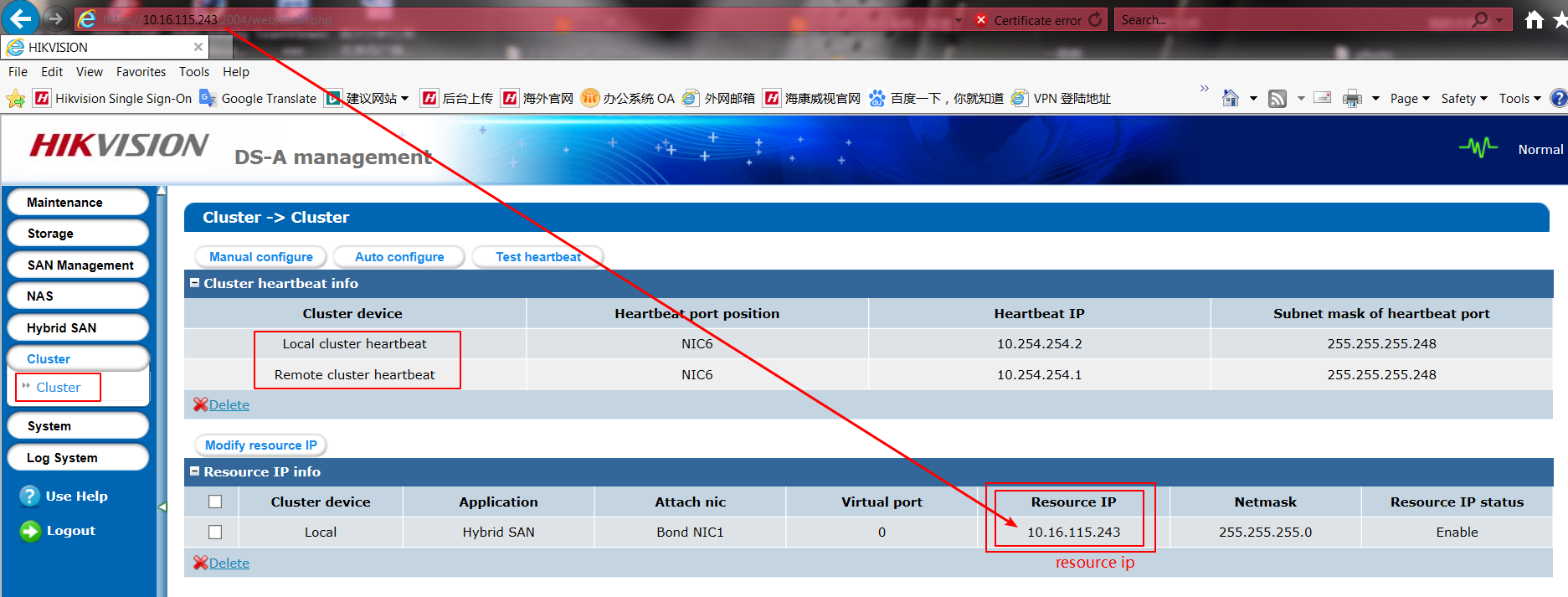
**How to Upgrade Network Storage Firmware (231-4MC to 232-6)**

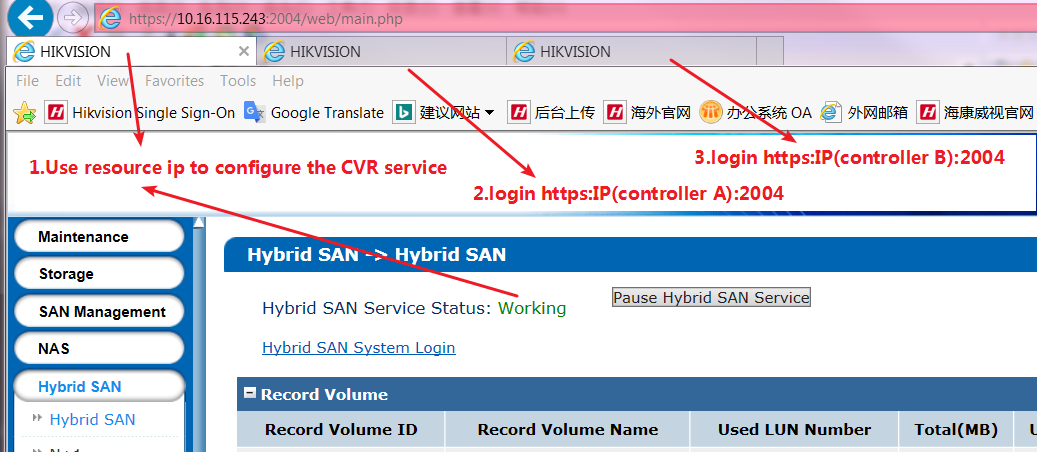
**For dual-controller device**

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.

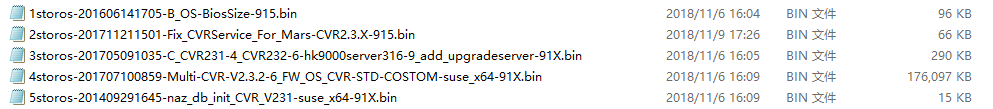


The device should upgrade to **231-4MC** first. And it only allow to upgrade when device CVR status is **working.** So the right step should be

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.



**232-6 Firmware Package:**

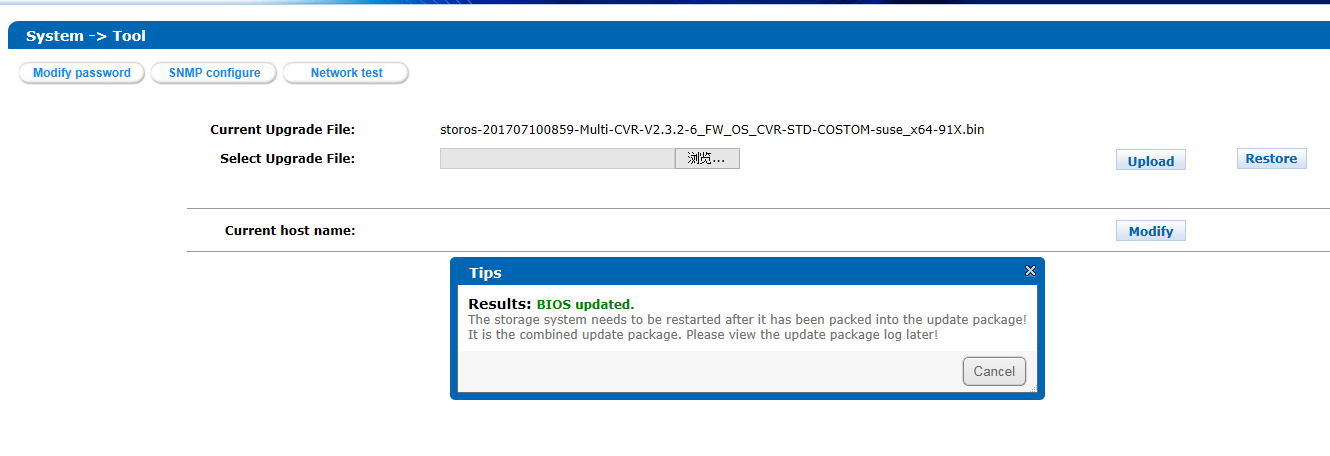


Steps:

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

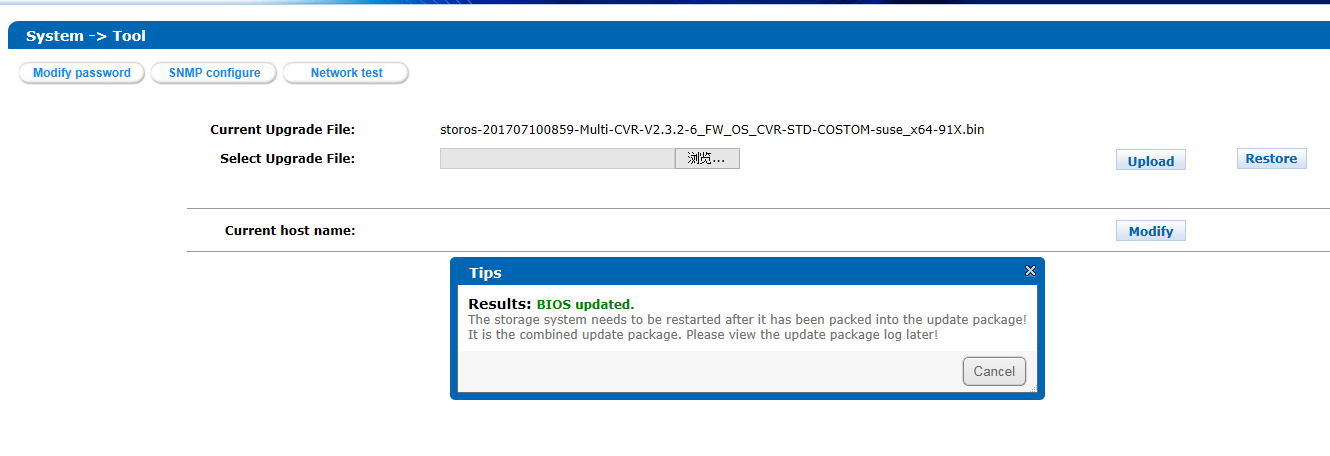
Controller A:

Please wait several minutes until it shows below tips

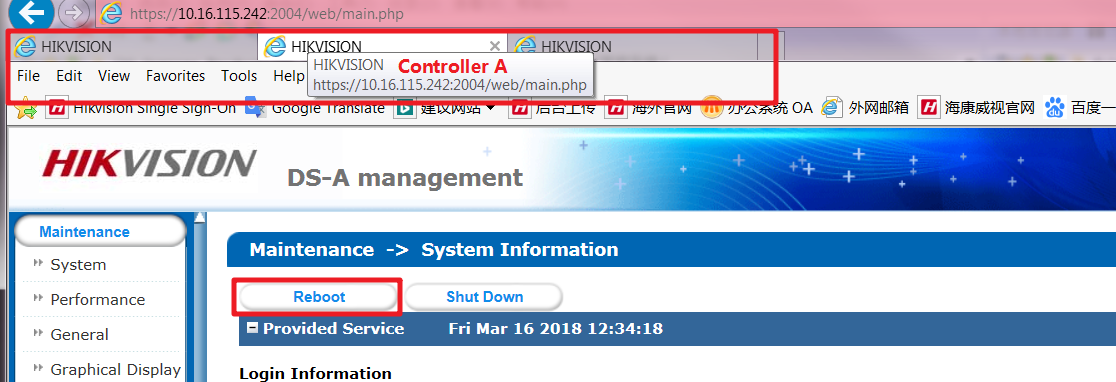


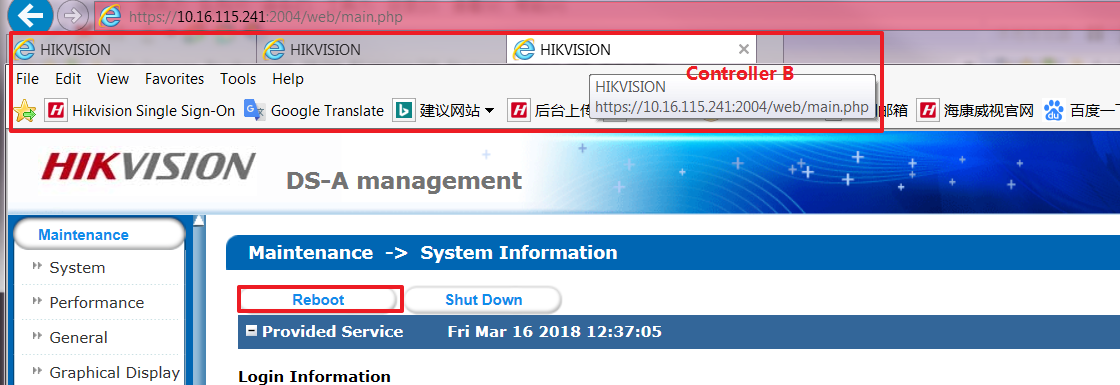
Controller B:

Please wait several minutes until it shows below tips



Step2: Reboot both of controller A and controller B

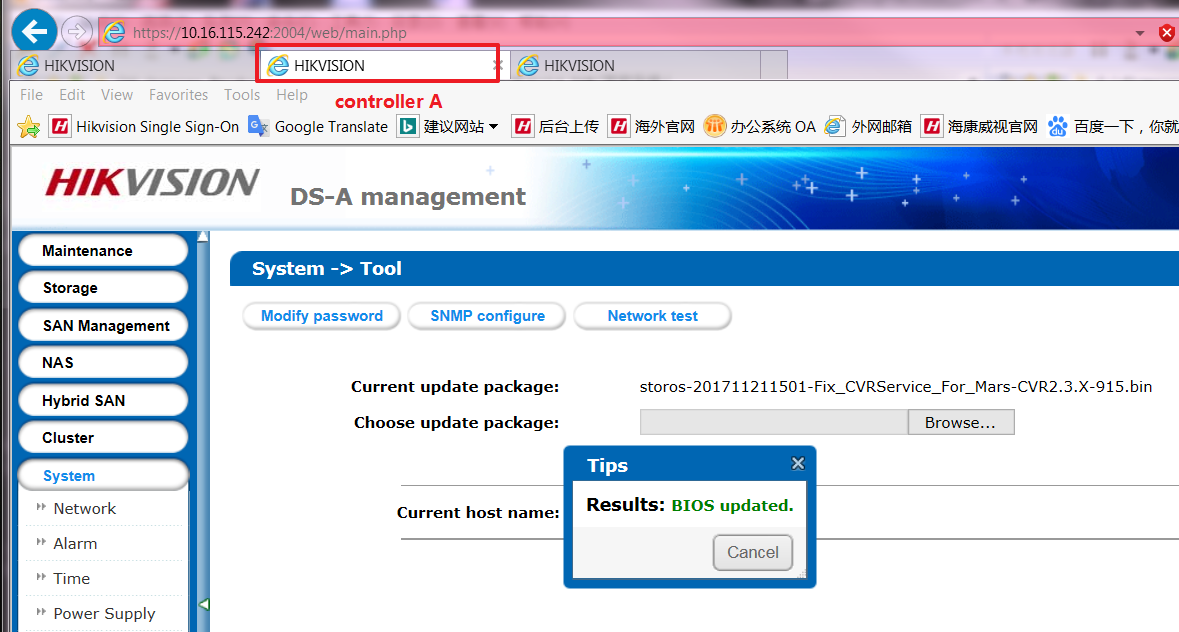




Step3: Upgrade 2storos-201711211501-Fix\_CVRService\_For\_Mars-CVR2.3.X-915.bin (Special for dual controller device ) in controller A, then do same operation in controller B

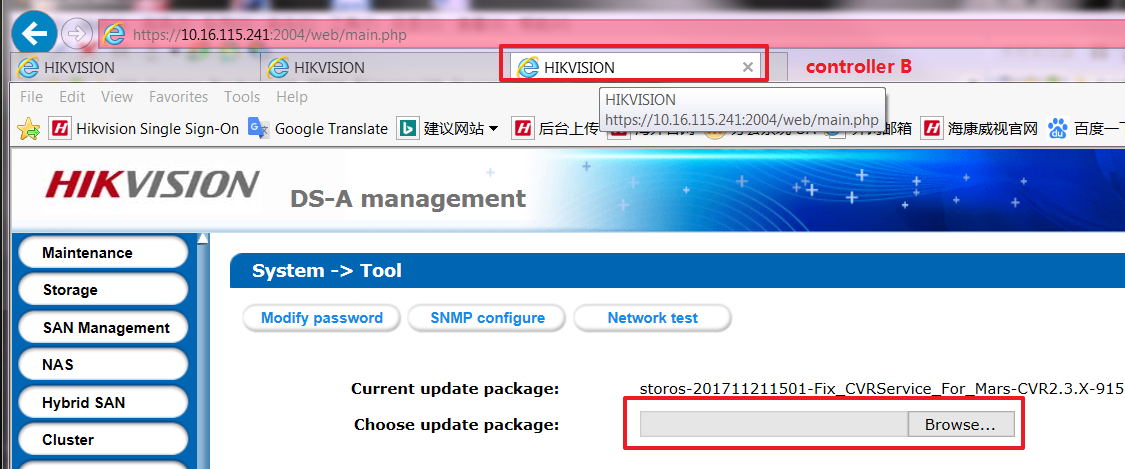
Controller A:

Please wait several minutes until it shows below tips



Controller B:

Please wait several minutes until it shows below tips



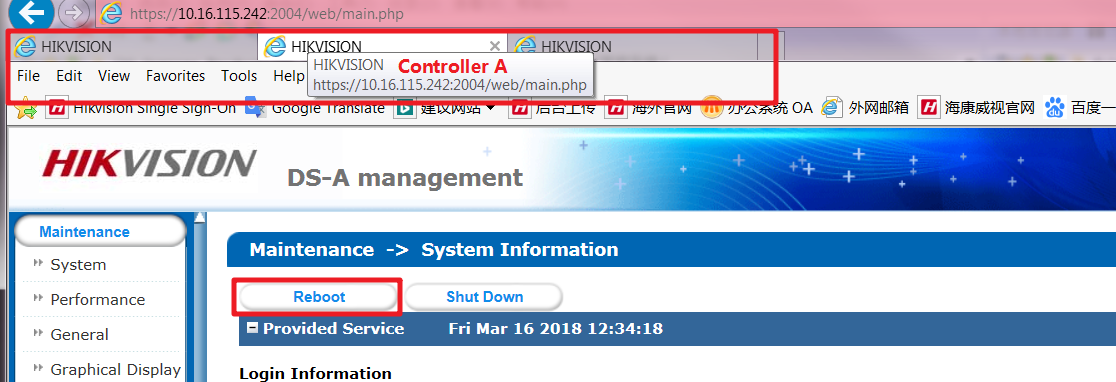
**Step4**: **Upgrade 3storos-201705091035-C\_CVR231-4\_CVR232-6-hk9000server316-9\_add\_upgradeserver-91X in controller A,**

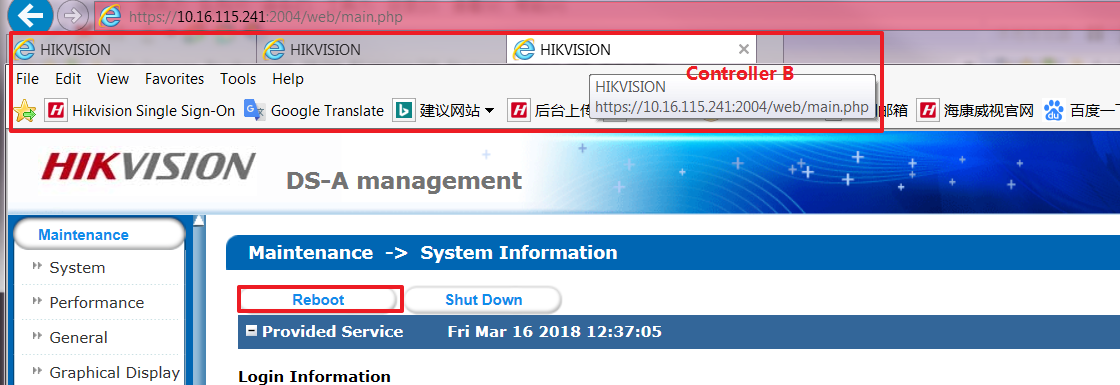
**Step5**: **Upgrade 4storos-201707100859-Multi-CVR-V2.3.2-6\_FW\_OS\_CVR-STD-COSTOM-suse\_x64-91X in controller A,**

**Step6**: **Upgrade 5storos-201409291645-naz\_db\_init\_CVR\_V231-suse\_x64-91X in controller A,**

Step7: then do same step4、step5、step6 in controller B

**Step8**: **Reboot both of controller A and controller B.**





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

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