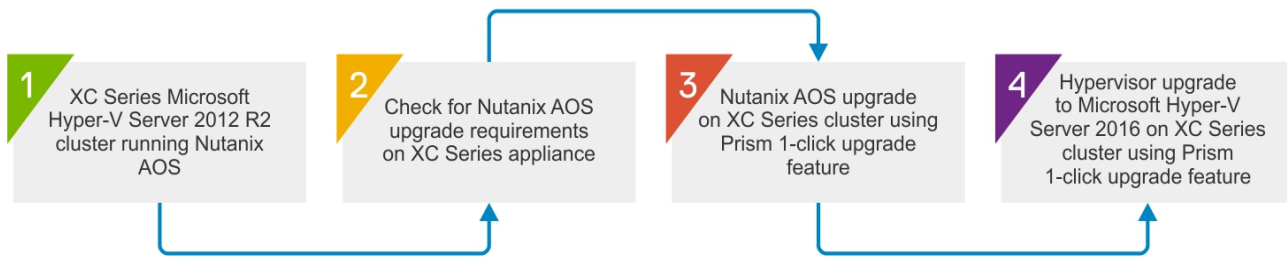# Upgrading XC Series to Windows Hyper-V 2016

XC Series supports upgrading Hyper-V 2012 R2 environments to Hyper-V 2016 using 1-click upgrade from Prism without any downtime on Nutanix AOS 5.5 and later versions.

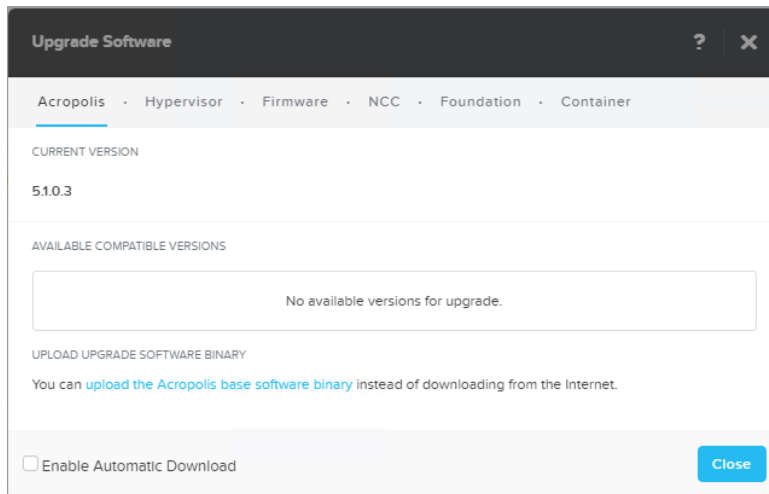| 1 XC Series Microsoft Hyper-V Server 2012 R2 cluster running Nutanix AOS | 2 Check for Nutanix AOS upgrade requirements on XC Series appliance | 3 Nutanix AOS upgrade on XC Series cluster using Prism 1-click upgrade feature | 4 Hypervisor upgrade to Microsoft Hyper-V Server 2016 on XC Series cluster using Prism 1-click upgrade feature |

XC Series Windows Hyper-V 2016 upgrade

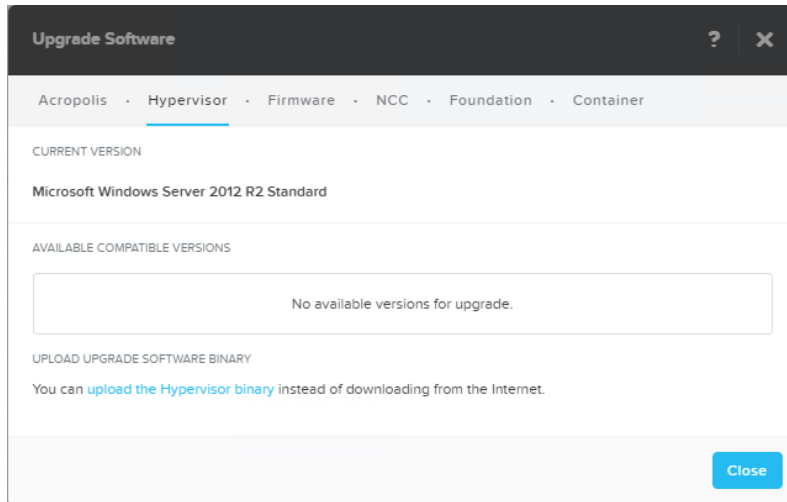Test methodology used for Hyper-V 2016 upgrade:

- Multiple user VMs running simultaneous read write I/O operations
- VMs running Microsoft SQL Server
- I/O utilities: IO Meter, Diskspd

1 **Start with an XC Series Microsoft Hyper-V Server 2012 cluster running Nutanix AOS.**

Upgrade Software   ?   ✕

Acropolis · Hypervisor · Firmware · NCC · Foundation · Container

CURRENT VERSION

5.1.0.3

AVAILABLE COMPATIBLE VERSIONS

No available versions for upgrade.

UPLOAD UPGRADE SOFTWARE BINARY

You can upload the Acropolis base software binary instead of downloading from the Internet.

☐ Enable Automatic Download   Close

Nutanix AOS version

Microsoft Windows Server OS

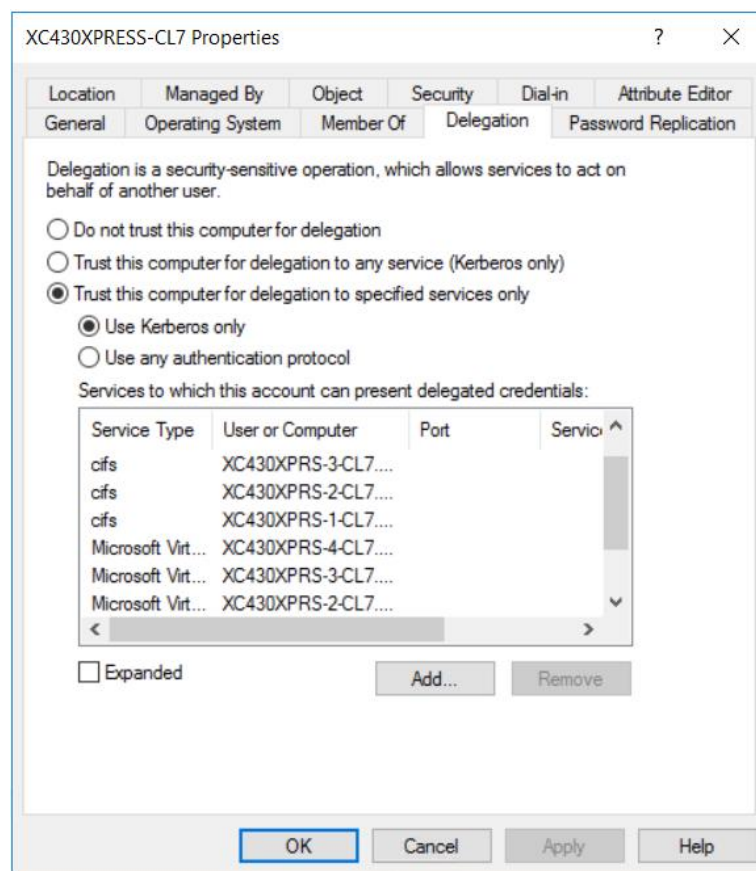*I/O statistics using Prism VM screen*

2 **Verify AOS upgrade prerequisites are satisfied**

1. Enable Kerberos from Prism.
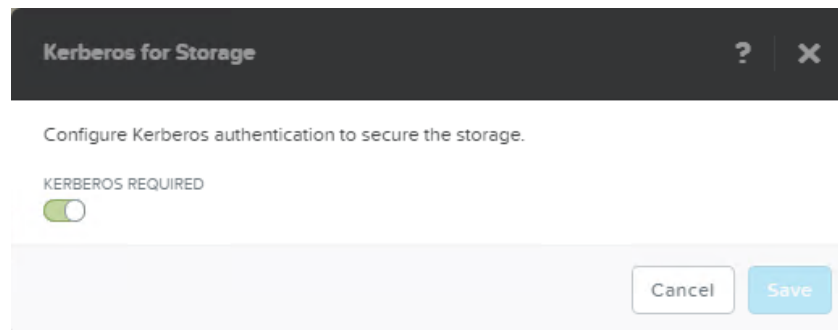
Kerberos management setting

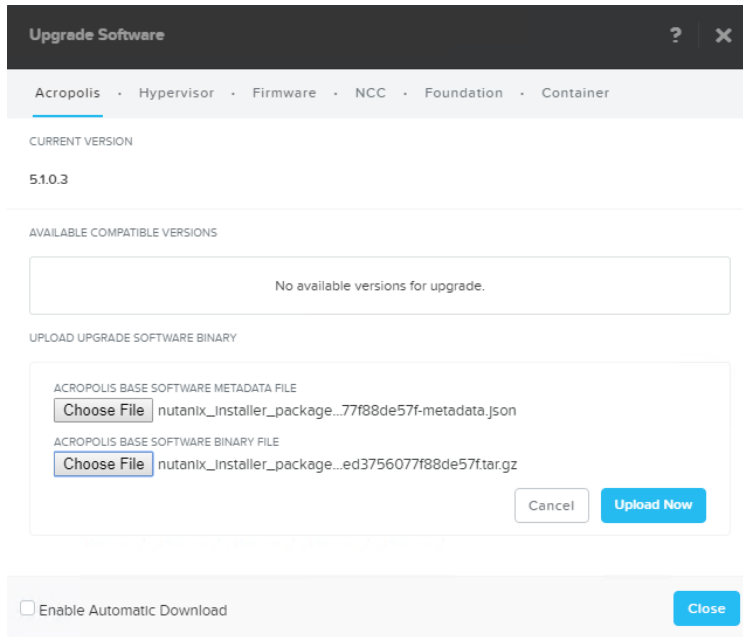2. Configure **Delegation** manually on the Domain Controller.
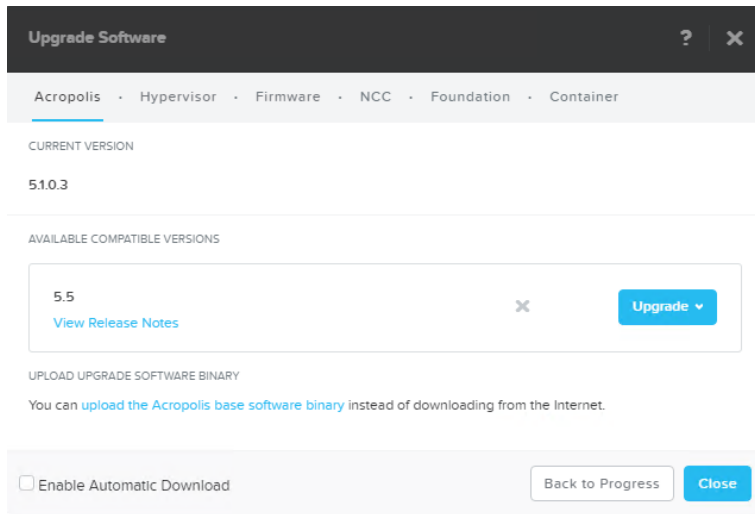

Delegation for Nutanix Cluster Object

3   **Nutanix AOS upgrade on XC Series cluster using Prism 1-click upgrade feature**
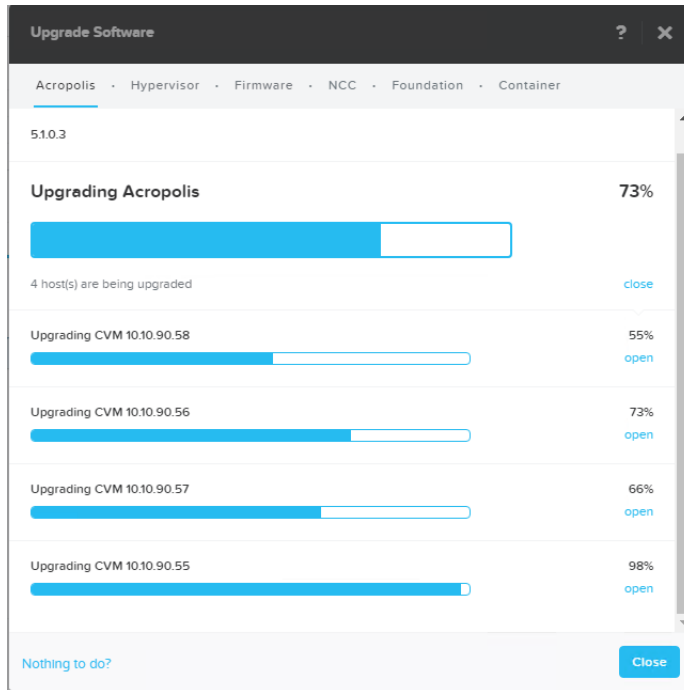
1. Upload Acropolis base software metadata file.
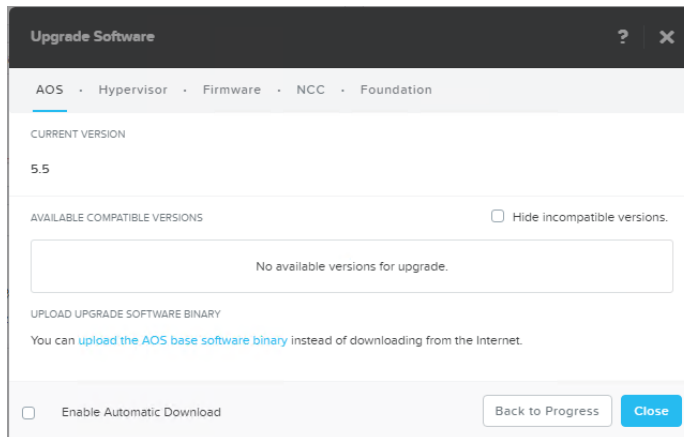2. Upload Acropolis base binary file.
3. Upgrade.

Upload of Acropolis base software binary

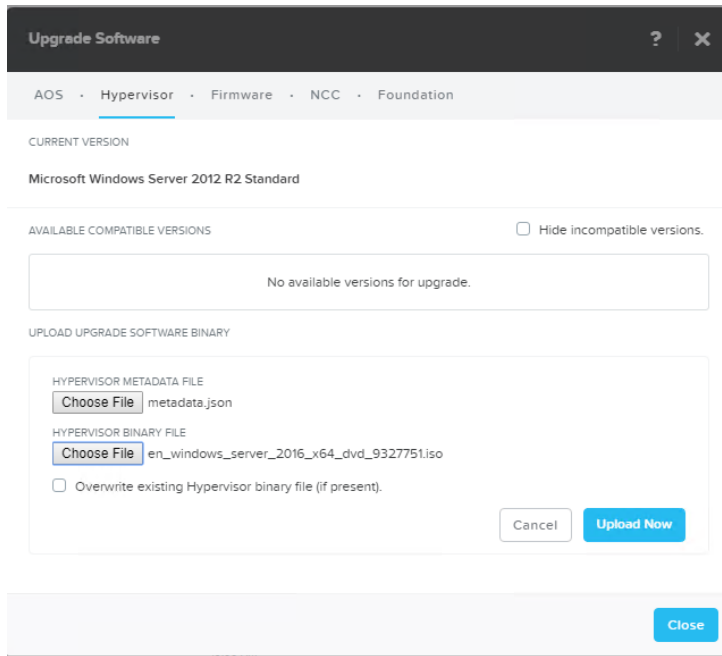*Nutanix AOS upgrade start*

Nutanix AOS upgrade progress

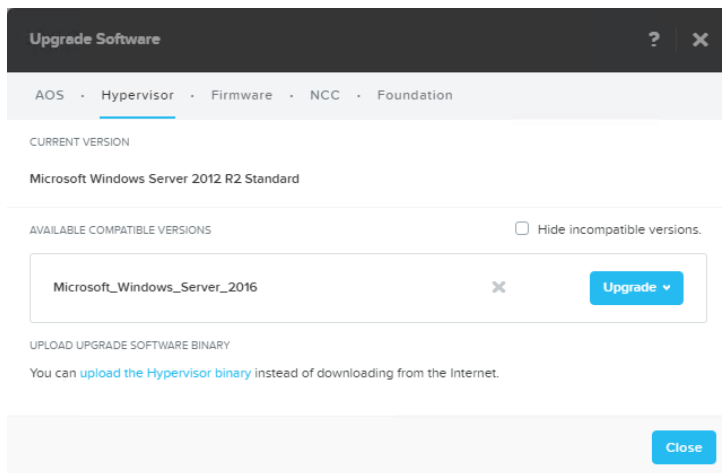*Successful Nutanix AOS upgrade*

4 **Hypervisor upgrade to Hyper-V 2016 on XC Series cluster using Prism 1-click upgrade feature**
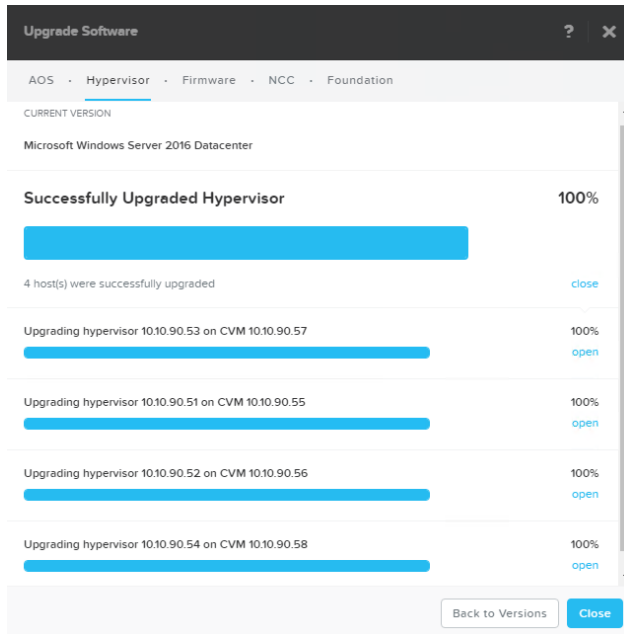
1. Run Nutanix cluster checks and verify all PASS.
2. Upload Hypervisor metadata file.
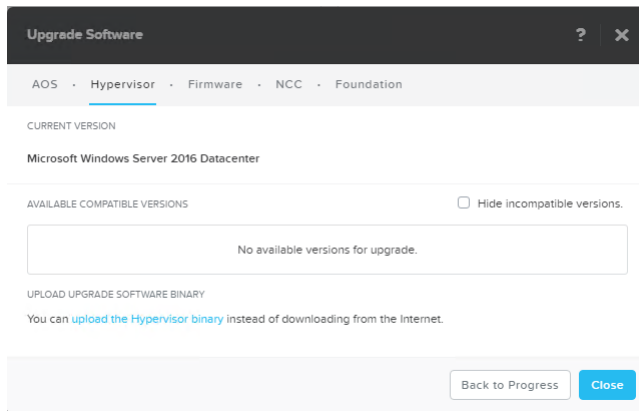3. Upload Hypervisor binary file.
4. Upgrade.

Hypervisor binary upload

Hypervisor upgrade start

Hypervisor upgrade progress

Successful Hypervisor upgrade

Conclusion

The 1-click upgrade is a unique customer experience that results in no downtime as you upgrade your XC Series environments to Windows Server 2016.

The images below from Nutanix Prism shows that all user VMs are running and I/O operations from user VMs are still active after a successful Hypervisor upgrade.

I/O statistics after Hyper-V 2016 upgrade
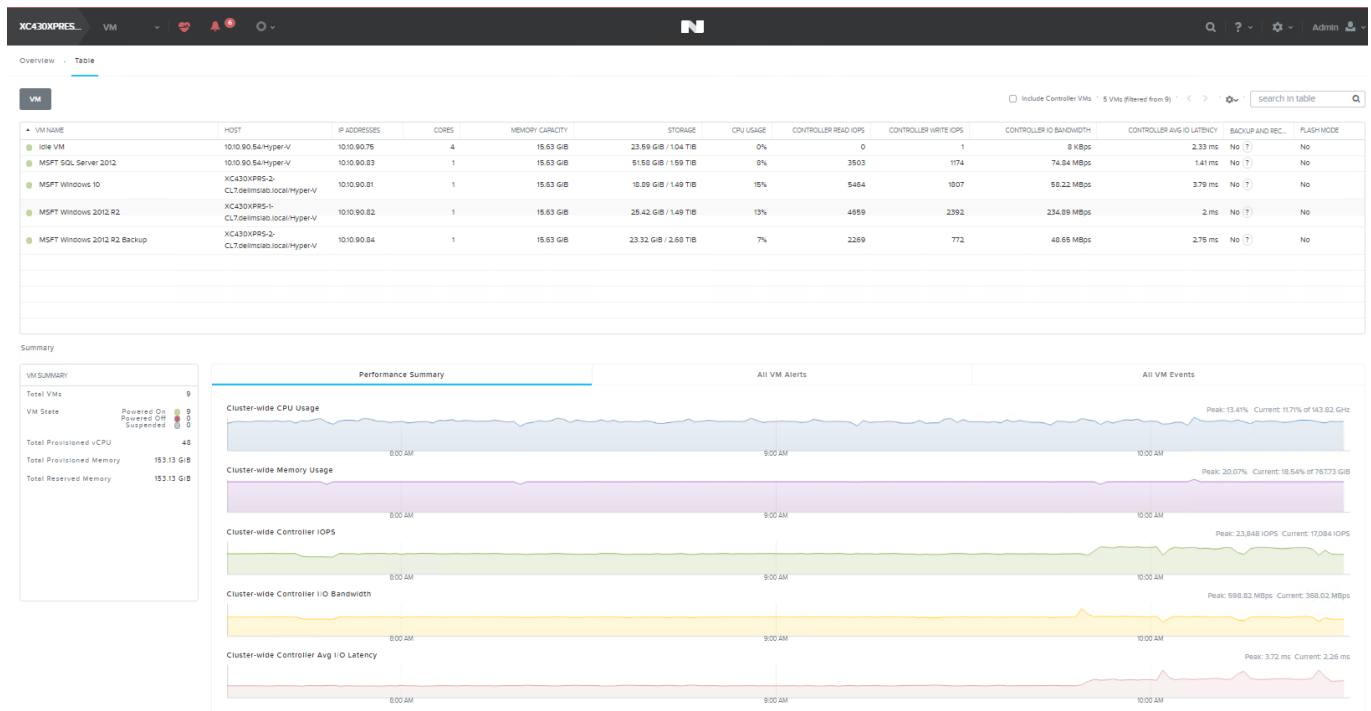
I/O statistics w/ graphical representation after Hyper-V 2016 upgrade using Prism

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