Infoblox vNIOS for Nutanix

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Executive Summary

With the release of NIOS 8.5, you can now run vNIOS images on Nutanix servers. This deployment guide shows the steps to upload, configure, and run vNIOS on Nutanix servers. Nutanix is a cloud computing software company that sells hyper-converged infrastructure (HCI) appliances and software-defined storage.

Prerequisites

- NIOS 8.5 qcow2 image,
- Nutanix AHV version 5.11

Supported Platforms

The table below shows the list of supported models in the Nutanix environment.

Trinzic Series Virtual Appliances	Overall Disk (GB)	Number of vCPUs	Number of CPU Cores	Memory Allocation	Supported as Grid Master and Grid Master Candidate
IB-V815	250	1	2	16GB	Yes
IB-V825	250	1	2	16GB	Yes
IB-V1415	250	1	4	32GB	Yes
IB-V1425	250	1	4	32GB	Yes
IB-V2215	250	1	8	64GB	Yes
IB-V2225	250	1	8	64GB	Yes
IB-V5005	User defined reporting storage	1	User defined	User defined	No

| Cloud Platform Virtual Appliances	Overall Disk (GB)	Number of vCPUs	Number of CPU Cores	Memory Allocation	Supported as Grid Master and Grid Master Candidate
CP-V805	250	1	2	16GB	No
CP-V1405	250	1	4	32GB	No
CP-V2205	250	1	8	64GB	No

| Network Insight Virtual Appliances	Overall Disk (GB)	Number of vCPUs	Number of CPU Cores	Memory Allocation	Supported as Grid Master and Grid Master Candidate
ND-V1405	250	1	4	30GB	No

Instructions

1. Log into the Infoblox Support site to download the NIOS image.
2. Select the vNIOS for KVM section to download the qcow2 image.
3. Log into the Nutanix Prism GUI.
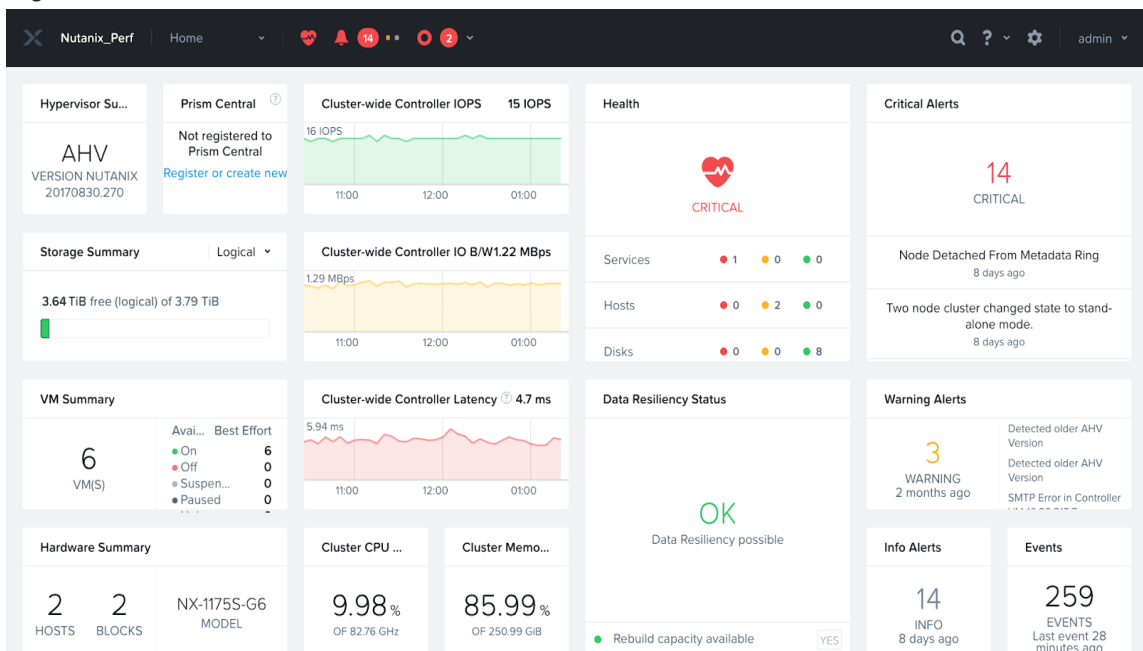
4. From the drop-down menu, select the Settings selection and then select Image Configuration.
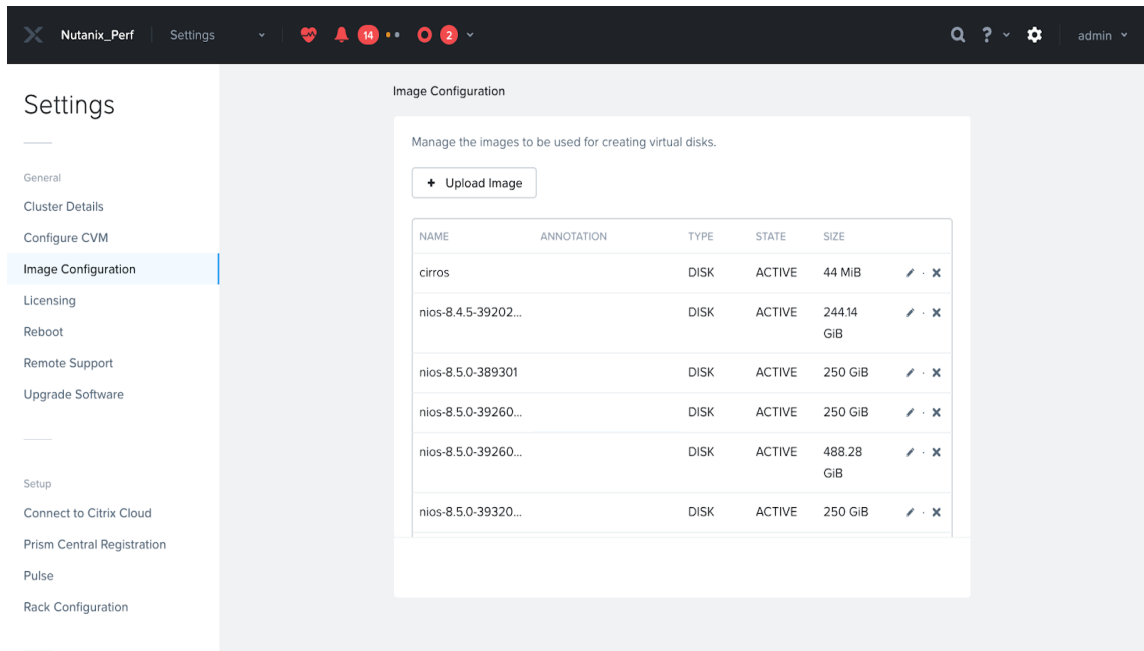
5. Click on 'Upload Image'. Input a name, description (ie annotation), image type of disk, storage container. Choose 'Upload a File' and upload the file from step 2. Click Save.
6. Navigate to VM from the Prism GUI.
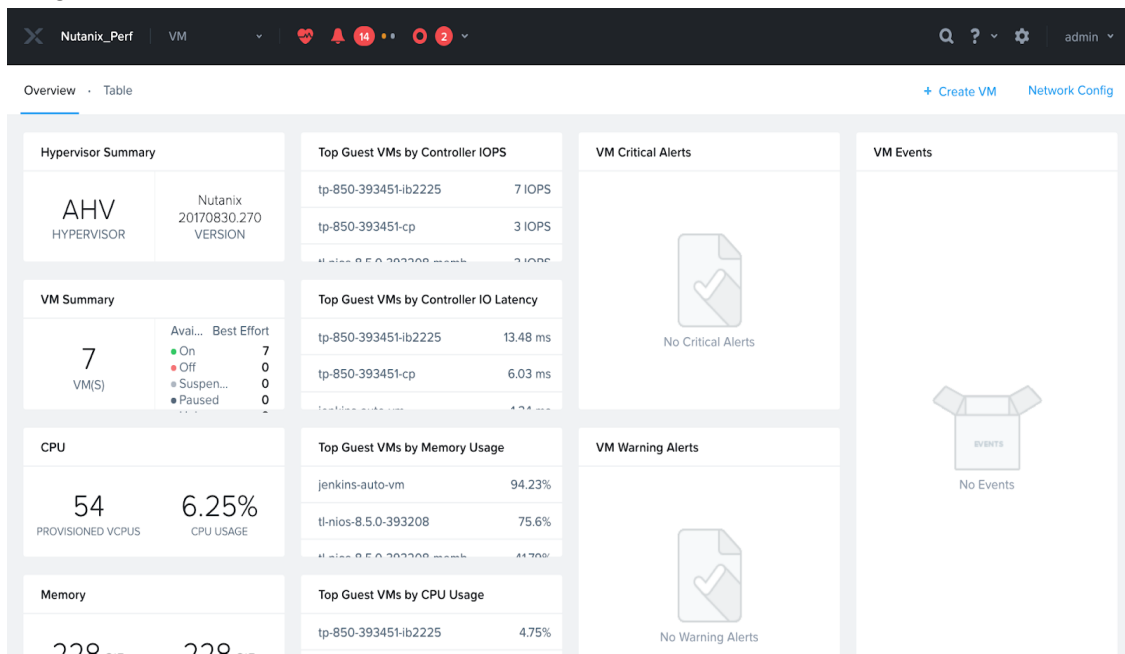
7. Click on Create VM. Enter name, description, timezone, vCPU, cores per vCPU.

Create VM

General Configuration

Name   VM name is already in use

NIOS 8.5 Grid master

Description

Grid Master Test

Timezone

(UTC - 08:00) America/Santa_Isabel

(UTC - 08:00) A

☐ Use this VM as an agent VM

Compute Details

vCPU(s)

1

Number Of Cores Per vCPU

2

Cancel   Save

8. Scroll down and enter memory.

Memory ⑦

| 250 | GiB |

9. Add a disk. Type is disk. From the **Operation** drop-down list, select **Clone from Image Service**. From the **Bus Type** drop-down list, select **SCSI**.From the **Image** drop-down list, select the image that you uploaded when deploying the virtual appliance. Click Add.

Add Disk   ?   ✕

Type

| DISK | ⌄ |

Operation

| Clone from Image Service | ⌄ |

Bus Type

| SCSI | ⌄ |

Image ⑦

| tl-nios-85-test-image | ⌄ |

Size (GiB) ⑦

| 60 |

Please note that changing the size of an image is not allowed.

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| Next Available | ⌄ |

Cancel   Add

10. Select Legacy BIOS and then set the boot priority.

11. Add the NICs (network interface cards). You can add up to 4 NICs. The NICs represent the following VLANs in this order:
    a. NIC 1: MGMT
    b. NIC 2: LAN1
    c. NIC 3: HA
    d. NIC 4: LAN2

12. You must assign the VLANs in this order. Click Add.

13. Repeat this command for the MGMT and LAN1 interfaces.
14. Start a command prompt and run the following commands from the Nutanix controller VM:
    1. Run the acli vm.list command and note the VM name and VM user ID.
    2. If you have enabled the custom script, create a serial port by using the following command:
       acli vm.serial_port_create <VM name> index=0 type=kServer
    3. For the VM to function properly, turn off the VM branding using the following command:
       acli vm.update <VM uuid> disable_branding=true.
15. Click Save.
16. In the Prism web console, select the new VM in the *VM* table, and then click the **Power On** button to start the VM.
17. If there are no Nutanix errors, refresh the screen and then launch the console.

Configuration of Grid Master and Grid Members

1. In the console, you will need to do the following:
    a. Execute command set temp_license to set the model number using the NIOS license selection. Once this is done the VM will reboot.

      b.   Execute command set temp_license to set DNSOne license. This selection sets the Grid Master for DNS, DHCP, and Grid.

      c.   Execute command set network to set the IP address of the Grid Master or Grid Member. Once this is done, the VM will reboot.

2. From your workstation, try to ping the VM that was created. If successful, then you use your browser to connect to the grid master. The syntax is https://<IP address>.

3. Refer to the NIOS Administrators Guide for information on grid deployment and feature integrations.