



Supported networking changes

HCI

Michael Wallis
October 09, 2020

This PDF was generated from https://docs.netapp.com/us-en/hci/docs/task_nde_supported_net_changes.html on October 29, 2020. Always check docs.netapp.com for the latest.

Table of Contents

- Supported networking changes..... 1
 - H300E, H500E, H700E and H410C compute nodes..... 1
 - H610C compute nodes..... 2
 - H615C compute nodes..... 2
 - Find more information..... 2

Supported networking changes

After you deploy NetApp HCI, you can make limited changes to the default networking configuration. However, certain settings are required for smooth operation and proper network detection. Changing these settings will cause unexpected behavior, and might prevent you from expanding compute and storage resources.

After you deploy your system, you can make the following changes to the default network configuration in VMware vSphere as dictated by your network requirements:

- Change vSwitch names
- Change port group names
- Add and remove additional port groups
- Change the vmnic interface failover order for any additional port groups you have added

H300E, H500E, H700E and H410C compute nodes

NetApp HCI expects the following network configuration for H300E, H500E, H700E and H410C nodes.

The following is a six-interface configuration with VMware vSphere Distributed Switching (VDS). This configuration is only supported when used with VMware vSphere Distributed Switches, and requires VMware vSphere Enterprise Plus licensing.

| Network function | vmkernel | vmnic (physical interface) |
|------------------|----------|----------------------------------|
| Management | vmk0 | vmnic2 (Port A), vmnic3 (Port B) |
| iSCSI-A | vmk1 | vmnic5 (Port E) |
| iSCSI-B | vmk2 | vmnic1 (Port D) |
| vMotion | vmk3 | vmnic4 (Port C), vmnic0 (Port F) |

The following is a six-interface configuration with VMware vSphere Standard Switching (VSS). This configuration uses VMware vSphere Standard Switches (VSS).

| Network function | vmkernel | vmnic (physical interface) |
|------------------|----------|----------------------------------|
| Management | vmk0 | vmnic1 (Port D), vmnic5 (Port E) |
| iSCSI-A | vmk1 | vmnic1 (Port E) |
| iSCSI-B | vmk2 | vmnic5 (Port D) |
| vMotion | vmk3 | vmnic1 (Port C), vmnic5 (Port F) |

H610C compute nodes

NetApp HCI expects the following network configuration for H610C nodes.

This configuration is only supported when used with VMware vSphere Distributed Switches (VDS), and requires VMware vSphere Enterprise Plus licensing.



Ports A and B are unused on the H610C.

| Network function | vmkernel | vmnic (physical interface) |
|------------------|----------|----------------------------------|
| Management | vmk0 | vmnic2 (Port C), vmnic3 (Port D) |
| iSCSI-A | vmk1 | vmnic3 (Port D) |
| iSCSI-B | vmk2 | vmnic2 (Port C) |
| vMotion | vmk3 | vmnic2 (Port C), vmnic3 (Port D) |

H615C compute nodes

NetApp HCI expects the following network configuration for H615C nodes.

This configuration is only supported when used with VMware vSphere Distributed Switches (VDS), and requires VMware vSphere Enterprise Plus licensing.

| Network function | vmkernel | vmnic (physical interface) |
|------------------|----------|----------------------------------|
| Management | vmk0 | vmnic0 (Port A), vmnic1 (Port B) |
| iSCSI-A | vmk1 | vmnic0 (Port B) |
| iSCSI-B | vmk2 | vmnic1 (Port A) |
| vMotion | vmk3 | vmnic0 (Port A), vmnic1 (Port B) |

Find more information

- [NetApp HCI Documentation Center](#)
- [SolidFire and Element Software Documentation Center](#)

Copyright Information

Copyright © 2020 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.