



# Expansion overview

## HCI

Ann-Marie Grissino, Michael Wallis, amitha  
July 08, 2020

This PDF was generated from [https://docs.netapp.com/us-en/hci/docs/concept\\_hcc\\_expandoverview.html](https://docs.netapp.com/us-en/hci/docs/concept_hcc_expandoverview.html) on July 15, 2020. Always check docs.netapp.com for the latest.

# Table of Contents

Expansion overview..... 1

# Expansion overview

You can expand your NetApp HCI system by using NetApp Hybrid Cloud Control. You can expand storage or compute resources separately or expand them at the same time.



New and spare H610S storage nodes might have additional installation requirements based on the existing Element software version of the storage cluster. Contact NetApp Support for more information.

After installing the node in the NetApp HCI chassis, you use NetApp Hybrid Cloud Control to configure NetApp HCI to use the new resources. NetApp HCI detects the existing network configuration and offers you configuration options within the existing networks and VLANs, if any.



If you recently expanded your installation and the new assets were not added automatically to your configuration, you might need to add the assets manually. See [Management node overview](#).

NetApp HCI uses VMware Enhanced vMotion Compatibility (EVC) to ensure vMotion functionality when there are compute nodes with different CPU generations in the vSphere cluster. When EVC is required for expansion, NetApp HCI enables it automatically whenever possible.

In the following situations, you might need to manually change EVC settings in the vSphere client to complete expansion:

- The existing compute nodes have a newer CPU generation than the compute nodes you are trying to add.
- The controlling vCenter instance does not support the required EVC level.
- The compute nodes you are trying to add have an older CPU generation than the EVC setting of the controlling vCenter instance.



When expanding NetApp HCI compute or storage resources in the NetApp Deployment Engine, you should connect to the vCenter instance that manages your existing NetApp HCI compute nodes.

## Find more information

- [Expand NetApp HCI compute resources](#)
- [Expand NetApp HCI storage resources](#)
- [Expand NetApp HCI storage and compute resources at the same time](#)
- [NetApp HCI Resources page](#)

- [NetApp HCI 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.