



Improve Rancher VM resiliency

HCI

Michael Wallis
January 06, 2021

This PDF was generated from https://docs.netapp.com/us-en/hci/docs/task_rancher_config_anti_affinity.html on February 24, 2021. Always check docs.netapp.com for the latest.

Table of Contents

Improve Rancher VM resiliency 1

Improve Rancher VM resiliency

After you deploy Rancher on NetApp HCI, your vSphere environment will contain three new nodes as virtual machines to host the Rancher environment. The Rancher web UI is available from each of these nodes. For full resiliency, each of the three virtual machines along with the corresponding virtual disks should reside on a different physical host after events like power cycles and failovers.

To ensure that each VM and its resources remain on a different physical host, you can create VMware vSphere Distributed Resource Scheduler (DRS) anti-affinity rules. This is not automated as part of Rancher on NetApp HCI deployment.

For instructions on how to configure DRS anti-affinity rules, see the following VMware documentation resources:

[Create VM Anti-Affinity Rules](#)

[vSphere HA and DRS Affinity Rules](#)

Find more information

- [Rancher documentation about architecture](#)
- [Kubernetes terminology for Rancher](#)
- [NetApp Element Plug-in for vCenter Server](#)
- [NetApp HCI Resources page](#)

Copyright Information

Copyright © 2021 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.