WP-7337: Anthos on Bare Metal

NetApp Solutions

Dorian Henderson
April 16, 2021

This PDF was generated from https://docs.netapp.com/us-en/netapp-solutions/containers/bmanthos_introduction.html on August 18, 2021. Always check docs.netapp.com for the latest.

Table of Contents

WP-7337: Anthos on Bare Metal 1

WP-7337: Anthos on Bare Metal

Alan Cowles and Nikhil M Kulkarni, NetApp

NetApp and Google Cloud have had a strong relationship for several years now, with NetApp first introducing cloud data services for Google Cloud with Cloud Volumes ONTAP and the Cloud Volumes Service. This relationship was then expanded by validating the NetApp HCI platform for use with Google Cloud Anthos on-premises, a hypervisor-based hybrid multi-cloud Kubernetes solution deployed on VMware vSphere. NetApp then passed Anthos Ready qualification for NetApp Trident, ONTAP, and the NFS protocol to provide dynamic persistent storage for containers.

Anthos can now be directly install on bare metal servers in a customer's environment, which adds an additional option for customers to extend Google Cloud into their local data centers without a hypervisor. Additionally, by leveraging the capabilities of NetApp ONTAP storage operating system and NetApp Trident, you can extend your platform's capabilities by integrating persistent storage for containers.

This combination allows you to realize the full potential of your servers, storage, and networking combined with the support, service levels, monthly billing, and on-demand flexibility that Google Cloud provides. Because you are using your own hardware, network, and storage, you have direct control over application scale, security, and network latency, as well as having the benefit of managed and containerized applications with Anthos on bare metal.

Next: Solution overview.

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.