

Start managing Kubernetes compute from Astra Control Service

Astra

Ben Cammett, Erika Barcott June 08, 2021

This PDF was generated from https://docs.netapp.com/us-en/astra/get-started/add-first-cluster.html on July 12, 2021. Always check docs.netapp.com for the latest.

Table of Contents

Start managing Kubernetes compute from Astra Control Service	 '
Create a Kubernetes cluster	 '
Start managing Kubernetes compute	 ′

Start managing Kubernetes compute from Astra Control Service

After you set up your environment, you're ready to create a Kubernetes cluster and then add it to Astra Control Service.

Create a Kubernetes cluster

If you don't have a cluster yet, create one that meets Astra Control Service requirements for Google Kubernetes Engine (GKE) or Astra Control Service requirements for Azure Kubernetes Service (AKS).

Start managing Kubernetes compute

After you log in to Astra Control Service, your first step is to start managing compute.

What you'll need

- For GKE, you should have the service account key file for a service account that has the required permissions. Learn how to set up a service account.
- For AKS, you should have the JSON file that contains the output from the Azure CLI when you created the service principal. Learn how to set up a service principal.

You'll also need your Azure subscription ID, if you didn't add it to the JSON file.

Steps

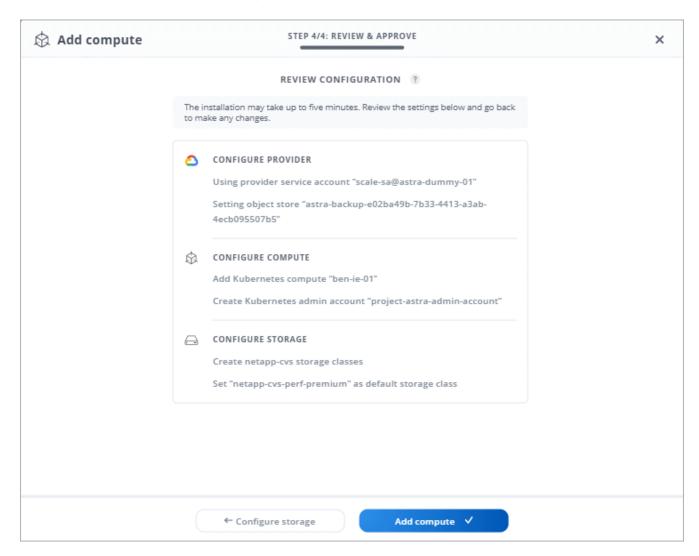
1. On the Dashboard, click Manage Kubernetes compute.

Follow the prompts to add the compute.

- 2. **Provider**: Select your cloud provider and then provide the required credentials.
 - a. **Microsoft Azure**: Provide details about your Azure service principal by uploading a JSON file or by pasting the contents of that JSON file from your clipboard.
 - The JSON file should contain the output from the Azure CLI when you created the service principal. It can also include your subscription ID so it's automatically added to Astra. Otherwise, you need to manually enter the ID after providing the JSON.
 - b. **Google Cloud Platform**: Provide the service account key file either by uploading the file or by pasting the contents from your clipboard.
 - Astra Control Service uses the service account to discover compute running in Google Kubernetes Engine.
- 3. Compute: Select the compute that you'd like to add.
 - Pay careful attention to the Eligible tab. If a warning appears, hover over the warning to determine if there's an issue with the compute. For example, it might identify that the cluster doesn't have a worker node.
- 4. **Storage**: Select the storage class that you'd like Kubernetes applications deployed to this compute to use by default.

Each storage class utilizes Cloud Volumes Service for Google Cloud or Azure NetApp Files.

- · Learn about storage classes for GKE clusters.
- · Learn about storage classes for AKS clusters.
- 5. Review & Approve: Review the configuration details and click Add compute.



The following video shows each of these steps for a GKE cluster.

https://docs.netapp.com/us-en/astra/media/get-started/video-manage-cluster.mp4 (video)

Result

Astra Control Service creates an object store for application backups, creates an admin account on the cluster, and sets the default storage class that you specified. This process can take up to 5 minutes.

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.