Getting started

ONTAP Select

NetApp
April 21, 2020

This PDF was generated from https://docs.netapp.com/us-en/ontap-select/concept_vpi_overview.html on April 21, 2020. Always check docs.netapp.com for the latest.

Table of Contents

Getting started 1
Overview of the Deploy vCenter plug-in 1
Plug-in architecture 3
Planning to use the Deploy vCenter plug-in 3

Getting started

Overview of the Deploy vCenter plug-in

The VMware vCenter plug-in for ONTAP Select Deploy is designed for ONTAP Select administrators working in the VMware environment. It provides an alternative to the native Deploy user interface.

Packaged with Deploy

The Deploy vCenter plug-in is packaged with the Deploy administration utility. After using the Deploy user interface to install the plug-in to the vCenter server, you can access the plug-in through the vSphere web interface.

Integration with VMware

For many businesses, VMware vCenter is a central platform for administering virtualized data center and cloud resources. Because the Deploy plug-in is tightly integrated with vCenter, administrators can quickly move between the ONTAP Select and vCenter domains to leverage the relationships among the various resources.

Functionality provided by the Deploy vCenter plug-in

After installing the Deploy vCenter plug-in, there are two primary options available through vSphere in the **Global Inventory Lists** pane.

ONTAP Select Clusters

The ONTAP Select Clusters option is roughly equivalent to the **Clusters** tab in the native Deploy web user interface. It provides the functionality described in the following table.

You perform this operation ...	By doing this ...
Deploy an ONTAP Select cluster	Click New ONTAP Select.
View cluster details	Select a cluster, click Summary, and then click Details.
View cluster event messages	Select a cluster, click Summary, and then click Events.
Move a cluster online or offline, or delete a cluster	Select a cluster, click Actions, and then click the desired action.
Launch System Manager	Select a cluster, click Summary, click Details, and then click Launch System Manager.

You perform this operation …	By doing this …
View the ESXi hosts used by a cluster	Select a cluster, click More Objects, and then click Hosts. Select a host for more details and further actions.
View the ONTAP VMs used by a cluster	Select a cluster, click More Objects, and then click ONTAP VMs. Select a VM for more details and further actions.
View the datastores used by a cluster	Select a cluster, click More Objects, and then click Datastores. Select a datastore for more details and further actions.
View the networks used by a cluster	Select a cluster, click More Objects, and then click Networks. Select a network for more details and further actions.

ONTAP Select Deploy

The ONTAP Select Deploy option is roughly equivalent to the **Hypervisor Hosts** and **Administration** tabs in the native Deploy web user interface. It provides functionality through three tabs at the top of the page as described in the following table.

Tab	Description
Summary	Describes the characteristics of the Deploy instance, including the host name and IP address.
Host	Displays information about the ESXi hosts registered with ONTAP Select Deploy. You can add or remove hosts.
Administration	Allows you to perform administrative tasks through the Deploy utility. This functionality is equivalent to the ONTAP Select Deploy native user interface, except that the **Credentials** and **Plugins** options are not available with the plug-in.

Comparing the vCenter plug-in to the native Deploy user interface

The functionality provided with the vCenter plug-in through vSphere is equivalent to the native Deploy user interface. However, there are a few features that are not provided with the plug-in and are only available with the Deploy user interface.

Managing the vCenter plug-in

You cannot install, update, remove, or verify the vCenter plug-in using the vCenter plug-in. You must perform these management tasks through the native Deploy user interface.

Managing vCenter credentials

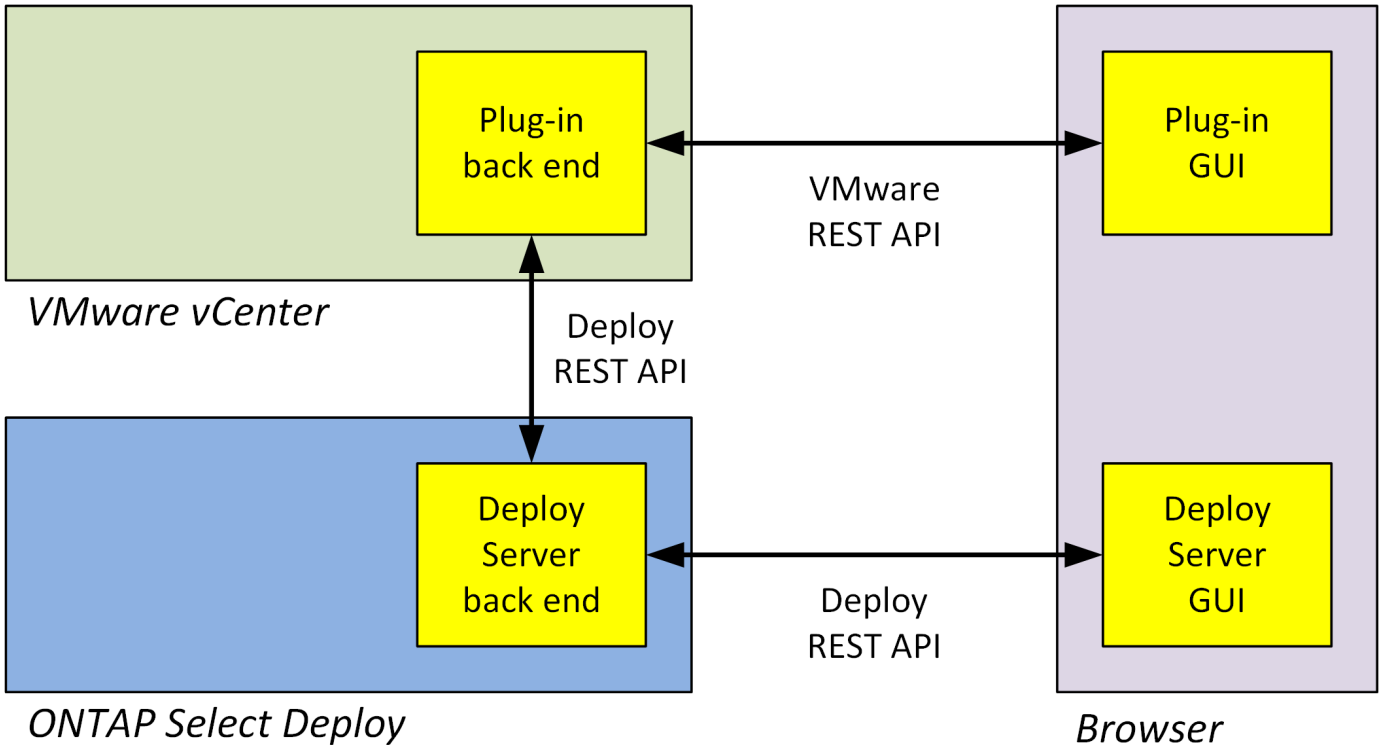
Before installing the vCenter plug-in, you must add the necessary vCenter credentials to Deploy using the native Deploy user interface.

ONTAP Select clusters must be controlled by the same vCenter server

You can only deploy and support the ONTAP Select clusters managed by the single vCenter server where the plug-in is installed. You cannot use the plug-in to access ONTAP Select clusters managed by other vCenter servers or clusters running on standalone ESXi or KVM hosts.

Plug-in architecture

The Deploy vCenter plug-in is tightly integrated with ONTAP Select Deploy and VMware vCenter. There are two paths to access the Deploy administration utility through the plug-in using the vSphere interface.



Planning to use the Deploy vCenter plug-in

Before installing and using the Deploy vCenter plug-in, you should prepare to assure success.

Software requirements

There are several software requirements you should consider as described in the following table.

Software	Supported version
ONTAP Select Deploy utility	2.11.2 or later

Software	Supported version
VMware vSphere	6.5 GA or later
VMware vSphere user interface	HTML5 (Flash-based version is not supported)
ESXi	6.5U2 or later

Cluster size restrictions

There are several restrictions related to the cluster size that you should consider as described in the following table.

Item	Maximum supported
ONTAP Select Deploy clusters	100
Nodes (virtual machines)	1000
Hosts	800

RBAC privileges for the vCenter user accounts

Several different vCenter privileges are required to manage and access the plug-in. These privileges correspond to the actions in the following three categories:

- Managing the plug-in through Deploy:
  - Install
  - Upgrade
  - Remove
- Accessing the plug-in through the vSphere client
- Validating user access to the plug-in through vSphere

See Preparing the vCenter server accounts for more information.

AutoSupport limitations

The Deploy vCenter plug-in provides a minimum amount of usage information in the Deploy administration utility (including the plug-in URL). However, AutoSupport does include a table of the installed plug-ins that can be displayed through the AutoSupport viewer.

You cannot download an AutoSupport package through the vSphere web client using the Deploy plug-in. You must use the native Deploy interface to download AutoSupport packages.

Additional restrictions

There are several additional restrictions that you should consider before installing and using the Deploy vCenter plug-in:

- Each instance of the vCenter plug-in supports only one vCenter server.
- vCenter servers that are configured in linked mode are not supported.
- The Deploy plug-in GUI in vSphere only displays clusters with ONTAP Select virtual machines managed by the same vCenter server. ONTAP Select clusters running on standalone ESXi and KVM hosts are not included.

Copyright Information

Copyright © 2019–2020 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.