



Configure Fully Qualified Domain Name web UI access

Element Software

Dave Bagwell, Ann-Marie Grissino, Megan Bock
March 09, 2021

Table of Contents

Configure Fully Qualified Domain Name web UI access 1

Configure Fully Qualified Domain Name web UI access

NetApp HCI with NetApp Element software 12.2 or later enables you to access storage cluster web interfaces using the Fully Qualified Domain Name (FQDN). If you want to use the FQDN to access web user interfaces such as the Element web UI, per-node UI, or management node UI, you must first add a storage cluster setting to identify the FQDN used by the cluster.

This process enables the cluster to properly redirect a login session and improves integration with external services such as key managers and identity providers for multi-factor authentication.

What you'll need

- This feature requires Element 12.2 or later and management services version 2.15 or later.
- To use REST APIs, you must have deployed a management node running version 11.5 or later.

Steps

1. Ensure that the Element storage nodes and the mNode have DNS configured correctly for the network environment so that FQDNs in the environment can be resolved. To set DNS, go to the per-node UI for storage nodes and to the management node, then select **Network Settings > Management Network**.
 - a. Per-node UI for storage nodes: https://<storage_node_management_IP>:442
 - b. Per-node UI for the management node: https://<management_node_IP>:442
2. Access the Element API and create the following cluster interface preference using the [CreateClusterInterfacePreference](#) API method, inserting the cluster MVIP FQDN for the preference value:
 - Name: `mvip_fqdn`
 - Value: `Fully Qualified Domain Name for the Cluster MVIP`

In this example, FQDN=storagecluster.my.org:

```
https://<Cluster_MVIP>/json-rpc/12.2?
method=CreateClusterInterfacePreference&name=mvip_fqdn&value=storagec
luster.my.org
```

3. Change the management node settings using the REST API on the management node:
 - a. Access the REST API UI for the management node by entering the management node IP address followed by `/mnode/2/`

For example:

https://<management_node_IP>/mnode/2/
 - b. Click **Authorize** or any lock icon and enter the cluster user name and password.
 - c. Enter the client ID as `mnode-client`.
 - d. Click **Authorize** to begin the session and then close the window.

- e. From the server list, select `mnode2`.
- f. Click **GET /settings**.
- g. Click **Try it out**.
- h. Click **Execute**.
- i. Record any proxy settings reported in the response body.
- j. Click **PUT/settings**.
- k. Click **Try it out**.
- l. In the request body area, enter the management node FQDN as the value for the `mnode_fqdn` parameter.
- m. Enter any proxy setting values you recorded earlier in the remaining parameters in the request body. If you leave the proxy parameters empty or do not include them in the request body, existing proxy settings will be removed.
- n. Click **Execute**.

```
== Find more information
* https://www.netapp.com/data-
storage/solidfire/documentation[SolidFire and Element Resources
page^]
* https://docs.netapp.com/us-en/vcp/index.html[NetApp Element Plug-in
for vCenter Server^]
```

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.