



# **Configure SolidFire system options after deployment**

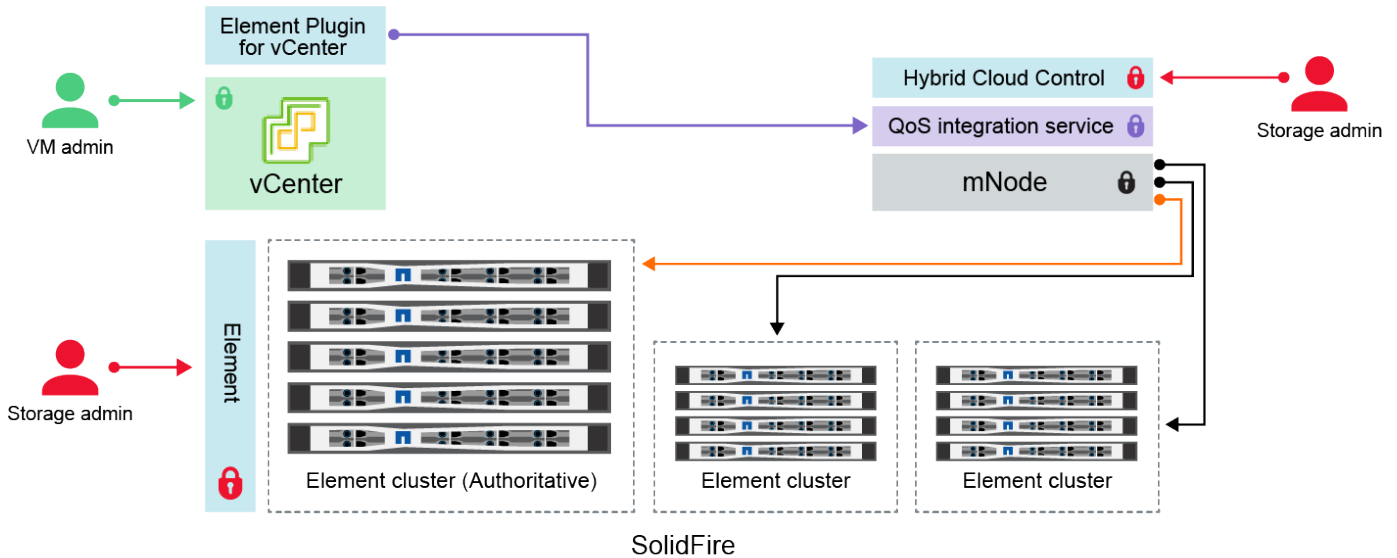
Element Software

NetApp  
June 11, 2021


# Table of Contents




- Configure SolidFire system options after deployment ..... 1
- Find more information ..... 1
- Change credentials in NetApp HCI and NetApp SolidFire ..... 1
- Change the Element software default SSL certificate ..... 5
- Change default IPMI password for nodes ..... 5








- Administrator uses administrative Element storage credentials to log into Element UI and Hybrid Cloud Control
- Element Plugin for VMware vCenter uses password to communicate with QoS service on mNode
- mNode and services use Element certificates to communicate with authoritative storage cluster
- mNode and services use Element administrative credentials for additional storage clusters
- Administrators use VMware vSphere Single Sign-on credentials to log into vCenter

Credenti al Type and Icon	Usage by Admin	See these instructions
Element credential s  	<p><b>Applies to:</b> NetApp HCI and SolidFire</p> <p>Admins use these credentials to log into:</p> <ul style="list-style-type: none"> <li>• Element user interface on the Element storage cluster</li> <li>• Hybrid Cloud Control on the management node (mnode)</li> </ul> <p>When Hybrid Cloud Control manages multiple storage clusters, it accepts only the admin credentials for the storage clusters, known as the <i>authoritative cluster</i> that the mnode was initially set up for. For storage clusters later added to Hybrid Cloud Control, the mnode securely stores admin credentials. If credentials for subsequently added storage clusters are changed, the credentials must also be updated in the mnode using the mnode API.</p>	<ul style="list-style-type: none"> <li>• <a href="#">Update the storage cluster admin passwords.</a></li> <li>• Update the storage cluster admin credentials in the mnode using the <a href="#">modifyclusteradmin API</a>.</li> </ul>

Credential Type and Icon	Usage by Admin	See these instructions
vSphere Single Sign-on credentials 	<p><b>Applies to:</b> NetApp HCI only</p> <p>Admins use these credentials to log into the VMware vSphere Client. When vCenter is part of the NetApp HCI installation, credentials are configured in the NetApp Deployment Engine as the following:</p> <ul style="list-style-type: none"> <li>• <a href="#">username@vsphere.local</a> with the specified password, and</li> <li>• <a href="#">administrator@vsphere.local</a> with the specified password. When an existing vCenter is used to deploy NetApp HCI, the vSphere Single Sign-on credentials are managed by the IT VMware admins.</li> </ul>	<p><a href="#">Update vCenter and ESXi credentials.</a></p>
Baseboard management controller (BMC) credentials 	<p><b>Applies to:</b> NetApp HCI only</p> <p>Administrators use these credentials to log in to the BMC of the NetApp compute nodes in a NetApp HCI deployment. The BMC provides basic hardware monitoring and virtual console capabilities.</p> <p>BMC (sometimes referred to as <i>IPMI</i>) credentials for each NetApp compute node are stored securely on the mnode in NetApp HCI deployments. NetApp Hybrid Cloud Control uses BMC credentials in a service account capacity to communicate with the BMC in the compute nodes during compute node firmware upgrades.</p> <p>When the BMC credentials are changed, the credentials for the respective compute nodes must be updated also on the mnode to retain all Hybrid Cloud Control functionality.</p>	<ul style="list-style-type: none"> <li>• <a href="#">Configure IPMI for each node on NetApp HCI.</a></li> <li>• For H410C, H610C, and H615C nodes, <a href="#">change default IPMI password.</a></li> <li>• For H410S and H610S nodes, <a href="#">change default IPM password.</a></li> <li>• <a href="#">Change BMC credentials on the management node.</a></li> </ul>
ESXi credentials 	<p><b>Applies to:</b> NetApp HCI only</p> <p>Admins can log into ESXi hosts using either SSH or the local DCUI with a local root account. In NetApp HCI deployments, the username is 'root' and the password was specified during the initial installation of that compute node in NetApp Deployment Engine.</p> <p>ESXi root credentials for each NetApp compute node are stored securely on the mnode in NetApp HCI deployments. NetApp Hybrid Cloud Control uses the credentials in a service account capacity to communicate with ESXi hosts directly during compute node firmware upgrades and health checks.</p> <p>When the ESXi root credentials are changed by a VMware admin, the credentials for the respective compute nodes must be updated on the mnode to retain Hybrid Cloud Control functionality.</p>	<p><a href="#">Update credentials for vCenter and ESXi hosts.</a></p>

Credential Type and Icon	Usage by Admin	See these instructions
<p>QoS integration password</p> 	<p><b>Applies to:</b> NetApp HCI and optional in SolidFire</p> <p>Not used for interactive logins by admins.</p> <p>The QoS integration between VMware vSphere and Element Software is enabled via:</p> <ul style="list-style-type: none"> <li>• Element Plug-in for vCenter Server, and</li> <li>• QoS service on the mnode.</li> </ul> <p>For authentication, the QoS service uses a password that is exclusively used in this context. The QoS password is specified during the initial installation of the Element Plug-in for vCenter Server, or auto-generated during NetApp HCI deployment.</p> <p>No impact on other components.</p>	<p><a href="#">Update QoSSIOC credentials in the NetApp Element Plug-in for vCenter Server.</a></p> <p>The VCP SIOC password is also known as the <i>QoSS/OC password</i>.</p> <p>Review the <a href="#">Element Plug-in for vCenter Server KB article</a>.</p>
<p>vCenter Service Appliance credentials</p> 	<p><b>Applies to:</b> NetApp HCI only if set up by NetApp Deployment Engine</p> <p>Admins can log into the vCenter Server appliance virtual machines. In NetApp HCI deployments, the username is 'root' and the password was specified during the initial installation of that compute node in the NetApp Deployment Engine. Depending on the VMware vSphere version deployed, certain admins in the vSphere Single Sign-on domain can also log in to the appliance.</p> <p>No impact on other components.</p>	<p>No changes needed.</p>
<p>NetApp Management Node admin credentials</p> 	<p><b>Applies to:</b> NetApp HCI and optional in SolidFire</p> <p>Admins can log into the NetApp management node virtual machines for advanced configuration and troubleshooting. Depending on the management node version deployed, login via SSH is not enabled by default.</p> <p>In NetApp HCI deployments, the username and password was specified by the user during the initial installation of that compute node in NetApp Deployment Engine.</p> <p>No impact on other components.</p>	<p>No changes needed.</p>

## Find more information

- [Change the Element software default SSL certificate](#)
- [Change the IPMI password for nodes](#)

- [Enable multi-factor authentication](#)
- [Get started with external key management](#)
- [Create a cluster supporting FIPS drives](#)

## Change the Element software default SSL certificate

You can change the default SSL certificate and private key of the storage node in the cluster using the NetAppElement API.

When a NetApp Element software cluster is created, the cluster creates a unique self-signed Secure Sockets Layer (SSL) certificate and private key that is used for all HTTPS communication via the Element UI, per-node UI, or APIs. Element software supports self-signed certificates as well as certificates that are issued and verified by a trusted Certificate Authority (CA).

You can use the following API methods to get more information about the default SSL certificate and make changes.

For information about each method, see the [NetApp Element Software API Reference](#).

- **GetSSLCertificate**

You can use this method to retrieve information about the currently installed SSL certificate including all certificate details.

- **SetSSLCertificate**

You can use this method to set the cluster and per-node SSL certificates to the certificate and private key you supply. The system validates the certificate and private key to prevent an invalid certificate from being applied.

- **RemoveSSLCertificate**

This method removes the currently installed SSL certificate and private key. The cluster then generates a new self-signed certificate and private key.



The cluster SSL certificate is automatically applied to all new nodes added to the cluster. Any node removed from the cluster reverts to a self-signed certificate and all user-defined certificate and key information is removed from the node.

### Find more information

- [SolidFire and Element Resources page](#)
- [NetApp Element Plug-in for vCenter Server](#)

## Change default IPMI password for nodes

You can change the default Intelligent Platform Management Interface (IPMI) administrator password as soon as you have remote IPMI access to the node. You might want to do this if there were any installation updates.

For details about configuring IPM access for nodes, see [Configure IPMI for each node](#).

You can change the IPM password for these nodes:

- H410S nodes
- H610S nodes

## Change the default IPMI password for H410S nodes

You should change the default password for the IPMI administrator account on each storage node as soon as you configure the IPMI network port.

### What you'll need

You should have configured the IPMI IP address for each storage node.

### Steps

1. Open a web browser on a computer that can reach the IPMI network and browse to the IPMI IP address for the node.
2. Enter the user name `ADMIN` and password `ADMIN` in the login prompt.
3. Upon logging in, click the **Configuration** tab.
4. Click **Users**.
5. Select the `ADMIN` user and click **Modify User**.
6. Select the **Change Password** check box.
7. Enter a new password in the **Password** and **Confirm Password** fields.
8. Click **Modify**, and then click **OK**.
9. Repeat this procedure for any other H410S nodes with default IPMI passwords.

## Change the default IPMI password for H610S nodes

You should change the default password for the IPMI administrator account on each storage node as soon as you configure the IPMI network port.

### What you'll need

You should have configured the IPMI IP address for each storage node.

### Steps

1. Open a web browser on a computer that can reach the IPMI network and browse to the IPMI IP address for the node.
2. Enter the user name `root` and password `calvin` in the login prompt.
3. Upon logging in, click the menu navigation icon at the top left of the page to open the sidebar drawer.
4. Click **Settings**.
5. Click **User Management**.
6. Select the **Administrator** user from the list.
7. Enable the **Change Password** check box.
8. Enter a new, strong password in the **Password** and **Confirm Password** fields.



9. Click **Save** at the bottom of the page.
10. Repeat this procedure for any other H610S nodes with default IPMI passwords.

## Find more information

- [SolidFire and Element Resources page](#)
- [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.