

Manage untrusted Client Networks

StorageGRID

NetApp March 02, 2022

This PDF was generated from https://docs.netapp.com/us-en/storagegrid-116/admin/managing-untrusted-client-networks.html on March 02, 2022. Always check docs.netapp.com for the latest.

Table of Contents

| Manage untrusted Client Networks |
 |
1 |
|--|------|------|------|------|------|------|------|------|-------|
| Manage untrusted Client Networks: Overview |
 |
1 |
| Specify node's Client Network is untrusted |
 |
1 |

Manage untrusted Client Networks

Manage untrusted Client Networks: Overview

If you are using a Client Network, you can help secure StorageGRID from hostile attacks by accepting inbound client traffic only on explicitly configured endpoints.

By default, the Client Network on each grid node is *trusted*. That is, by default, StorageGRID trusts inbound connections to each grid node on all available external ports (see the information about external communications in the Networking guidelines).

You can reduce the threat of hostile attacks on your StorageGRID system by specifying that the Client Network on each node be *untrusted*. If a node's Client Network is untrusted, the node only accepts inbound connections on ports explicitly configured as load balancer endpoints. See Configure load balancer endpoints.

Example 1: Gateway Node only accepts HTTPS S3 requests

Suppose you want a Gateway Node to refuse all inbound traffic on the Client Network except for HTTPS S3 requests. You would perform these general steps:

- 1. From the Load Balancer Endpoints page, configure a load balancer endpoint for S3 over HTTPS on port 443.
- 2. From the Untrusted Client Networks page, specify that the Client Network on the Gateway Node is untrusted.

After you save your configuration, all inbound traffic on the Gateway Node's Client Network is dropped except for HTTPS S3 requests on port 443 and ICMP echo (ping) requests.

Example 2: Storage Node sends S3 platform services requests

Suppose you want to enable outbound S3 platform service traffic from a Storage Node, but you want to prevent any inbound connections to that Storage Node on the Client Network. You would perform this general step:

• From the Untrusted Client Networks page, indicate that the Client Network on the Storage Node is untrusted.

After you save your configuration, the Storage Node no longer accepts any incoming traffic on the Client Network, but it continues to allow outbound requests to Amazon Web Services.

Specify node's Client Network is untrusted

If you are using a Client Network, you can specify whether each node's Client Network is trusted or untrusted. You can also specify the default setting for new nodes added in an expansion.

What you'll need

- You are signed in to the Grid Manager using a supported web browser.
- You have the Root access permission.
- If you want an Admin Node or Gateway Node to accept inbound traffic only on explicitly configured

endpoints, you have defined the load balancer endpoints.



Existing client connections might fail if load balancer endpoints have not been configured.

Steps

1. Select CONFIGURATION > Security > Untrusted Client Networks.

The Untrusted Client Networks page lists all nodes in your StorageGRID system. The Unavailable Reason column includes an entry if the Client Network on the node must be trusted.

Untrusted Client Networks If you are using a Client Network, you can specify whether a node trusts inbound traffic from the Client Network. If the Client Network is untrusted, the node only accepts inbound traffic on ports configured as load balancer endpoints. Set New Node Default This setting applies to new nodes expanded into the grid. New Node Client Network Trusted Default Untrusted Select Untrusted Client Network Nodes Select nodes that should have untrusted Client Network enforcement. Node Name Unavailable Reason DC1-ADM1 DC1-G1 DC1-S1 DC1-S2 DC1-S3 DC1-S4 Client Network untrusted on 0 nodes.

Save

- 2. In the **Set New Node Default** section, specify what the default setting should be when new nodes are added to the grid in an expansion procedure.
 - Trusted: When a node is added in an expansion, its Client Network is trusted.
 - **Untrusted**: When a node is added in an expansion, its Client Network is untrusted. As required, you can return to this page to change the setting for a specific new node.



This setting does not affect the existing nodes in your StorageGRID system.

In the Select Untrusted Client Network Nodes section, select the nodes that should allow client connections only on explicitly configured load balancer endpoints.

You can select or unselect the check box in the title to select or unselect all nodes.

4. Select Save.

The new firewall rules are immediately added and enforced. Existing client connections might fail if load balancer endpoints have not been configured.

Copyright Information

Copyright © 2022 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.