



Managing untrusted Client Networks

StorageGRID

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Managing untrusted Client Networks

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 network 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.

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.

Related information

[Network guidelines](#)

[Configuring load balancer endpoints](#)

Specifying a 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 must be signed in to the Grid Manager using a supported browser.
- You must 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 > Network Settings > Untrusted Client Network**.

The Untrusted Client Networks page appears.

This 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 Default ☒ Trusted ☐ Untrusted

Select Untrusted Client Network Nodes

Select nodes that should have untrusted Client Network enforcement.

<input type="checkbox"/>	Node Name	Unavailable Reason
<input type="checkbox"/>	DC1-ADM1	
<input type="checkbox"/>	DC1-G1	
<input type="checkbox"/>	DC1-S1	
<input type="checkbox"/>	DC1-S2	
<input type="checkbox"/>	DC1-S3	
<input type="checkbox"/>	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.

3. 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. Click **Save**.

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

Related information

[Configuring load balancer endpoints](#)

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