TECHNICAL NOTE
STORMSHIELD NETWORK SECURITY

SETTING UP A FILTERING RULE

Product concerned: SNS 3.x, SNS 4.x

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Reference: sns-en-setting_up_filtering_rule_Technical_Note

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Getting started

In this example, you wish to authorize HTTP access from a workstation on the internal network to an intranet server (located in a DMZ for example) through your Stormshield Network firewall.

> **NOTE**
> For connections to another type of application server, such as a database server for example, the procedure is the same except for the value of the destination port(s).

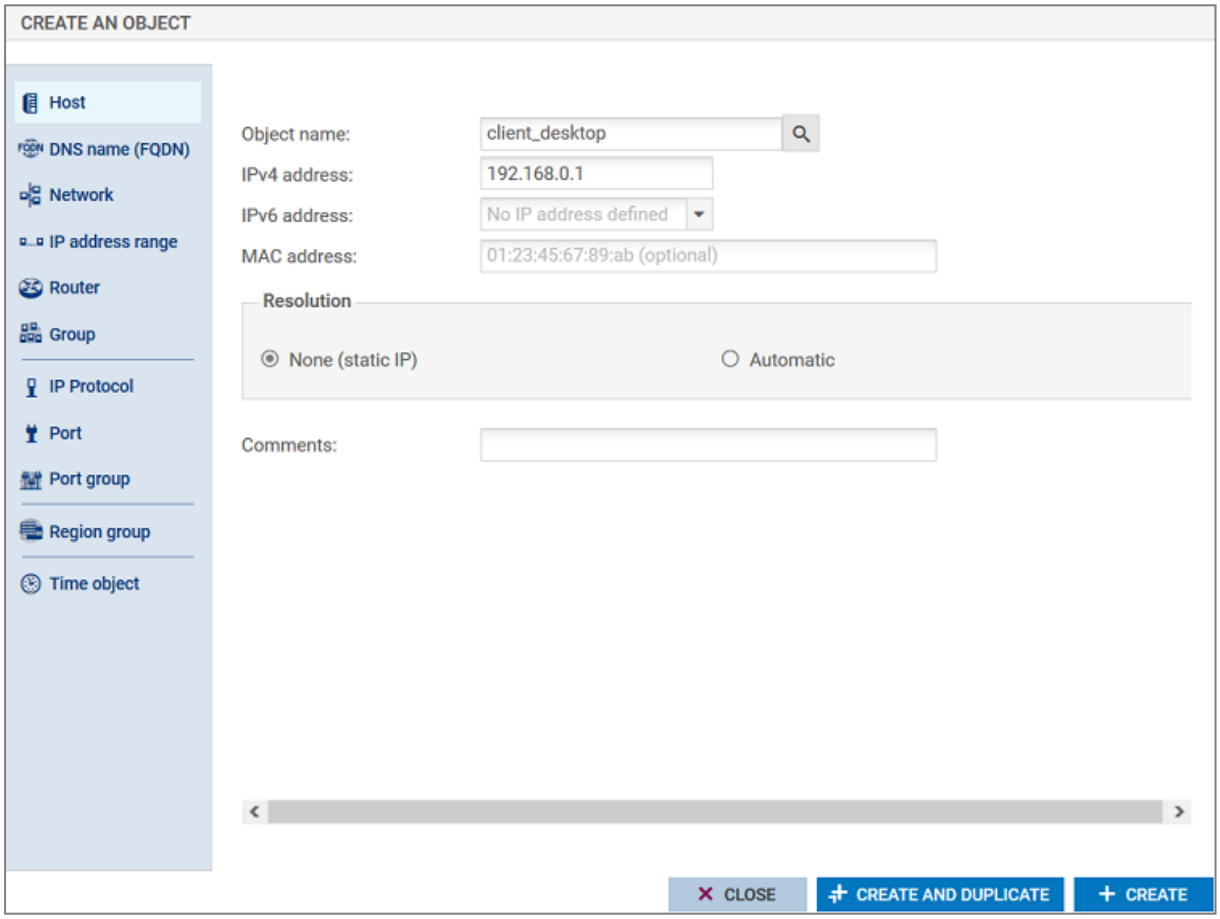
Requirements

The client workstation and intranet server must be able to dialogue:

- Either by using the Firewall as the default gateway,
- Or by using a static route via the Firewall.

Creating network objects

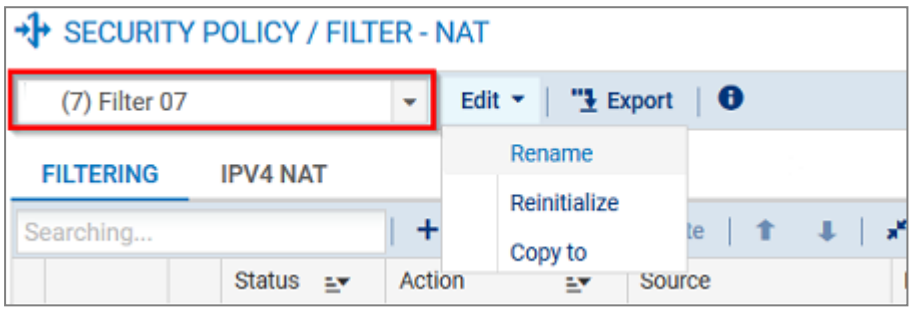
1. Click on **Configuration** > **Objects** > **Network objects**, then on **Add.**
2. In the wizard, ensure that the **Host** tab has been selected.
3. Fill in the **Object name** and **IP address** fields for the client workstation (**client_desktop** object).
4. Validate by clicking on **Create and duplicate** to continue creating the object **intranet_server** on the same model.
5. Once the last object has been defined, end the operation by clicking on **Create**.
   Network objects can also be created during the construction of the filter policy (during the stages of selecting sources and destinations).



Selecting a filtering policy

In the **Configuration** menu:

1. Click on **Security policy** > **Filter – NAT**.
2. Select the filtering policy to modify.
3. You can rename this policy by clicking on **Edit** > **Rename**.



Adding a filtering rule

1. In the **Filtering** tab, click on **New rule** > **Standard rule**.
2. A new rule, which is disabled by default, is created.

State

1. Double-click on the value **off** in the **Status** column.
2. The status of the rule will change to **on**.

Action

1. Double-click on the value **Block** in the **Action** column:
2. In the **Action** field, select **pass**,
3. In the **Log level** field, select **log** if you want traffic matching this rule to be reflected in the Firewall's filter logs.

Source

1. Double-click on the value **Any** in the **Source** column.
2. In the **Source hosts** field, select the network object **client_desktop**.

> **NOTE**
> You can refine your filter rule by indicating in the **Incoming interface** field an interface on which your client workstation's network is connected.

Destination

1. Double-click on the value **Any** in the **Destination** column.
2. In the **Destination hosts** field, select your network object **intranet_server.**

> **NOTE**
> You can refine your filter rule by indicating in the **Outgoing interface** (**Advanced properties** tab) field the network interface to which the intranet server is connected.

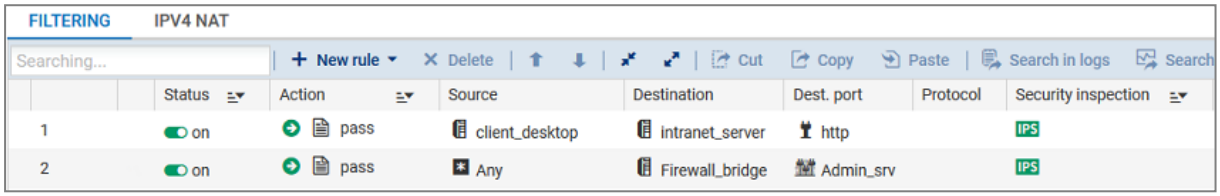
Destination port

1. Double-click on the value **Any** in the **Destination port** column.
2. In this case for the **Destination port** field, select **HTTP**.

Rule for administering the Firewall

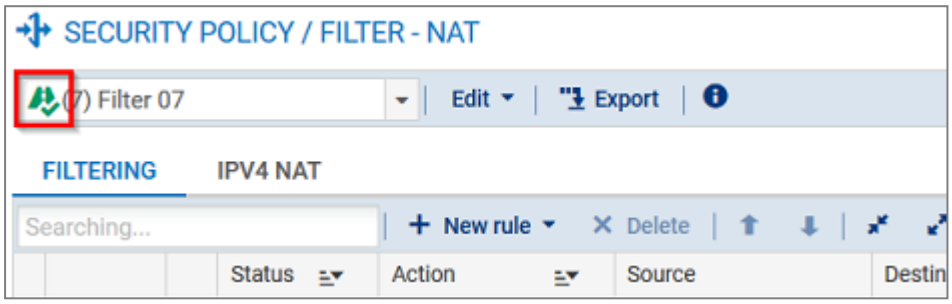
Following the method described above, add a rule allowing the Firewall to be administered (rule 2):

- Source: **Any** (or a group of authorized hosts)
- Destination: **Firewall_Bridge** object
- Port: **Admin_Srv** object



Activating the filtering policy

1. At the bottom of the *Filter-NAT* window, click on **Save and apply**.
2. Confirm by clicking on **Yes, activate the policy**.
3. The active policy is recognizable by an icon.



Testing the Filter / NAT policy

You have reached the end of the procedure, and your intranet must be accessible from your client workstation. In a web browser, type the server's URL, for example, "http://intranet_server_IP_address".

If the intranet server's home page does not appear, check the following points:

- Have you activated your filter/NAT policy and the rules associated with it?
- Has routing between the client workstation and the server been defined (static routes, default gateway to the Firewall)?
- Is the web service running on the server?
- Is there a firewall blocking the connection on the workstation or the server?

Further reading

Additional information and responses to questions you may have are available in the Stormshield knowledge base (authentication required).

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