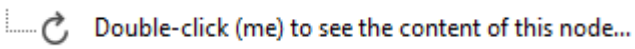
How to Enable Dynamic Loading for Large Configuration Trees

https://campus.barracuda.com/doc/96021409/

To display any number of appliances in your Control Center, Firewall Admin builds up the configuration tree for all managed instances. If you manage several hundred appliances, however, it will not only require much more time to create the configuration tree, but administrators will also need more time to locate the appliance in question if its related node is located somewhere at a deeper level in the hierarchy of ranges and clusters.

Starting with firmware release 8.2.1, Barracuda Firewall Admin offers an option to speed up navigation times when accessing a specific node in very large configuration trees.

Depending on which level (Multi-Range, Range, or Cluster) you want the content of the configuration tree to be dynamically loaded, all subordinated nodes will be displayed with their subnodes. All nodes inside of a box will be displayed as a single node, thereby informing the user that its content will only be loaded on request:



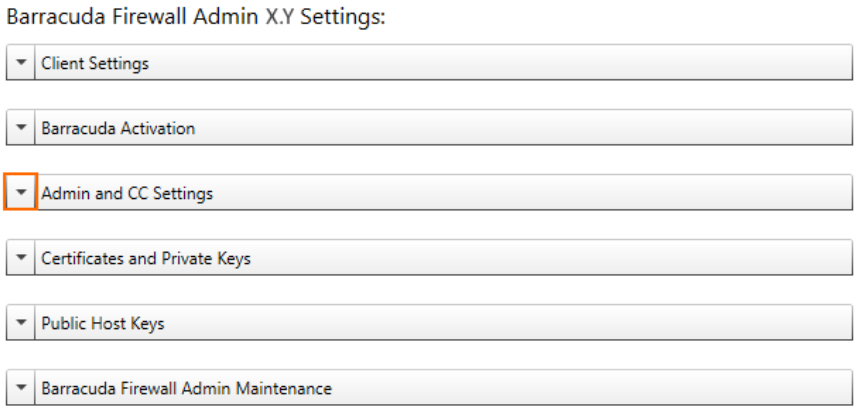
Before You Begin

Ensure you are using Barracuda Firewall Admin release 8.2.1-60 or higher.

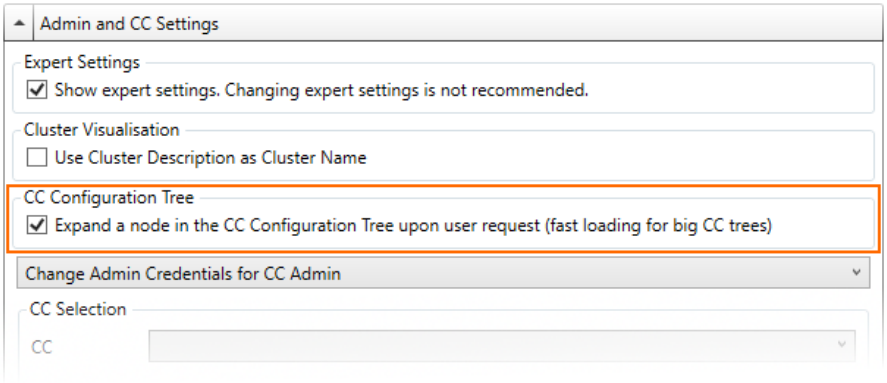
How to Enable Dynamic Loading for Large Configuration Trees

Step 1. Enable Dynamic Loading in Barracuda Firewall Admin.

1. Start **Firewall Admin**.
2. In the upper-left corner of Firewall Admin, click the left-most icon, which displays three horizontal lines.
3. Click **Settings**.
4. The view for **Barracuda Firewall Admin Settings** is displayed.
5. Click the small triangle icon to the left of **Admin and CC Settings**.



6. The view for **Admin and CC Settings** is displayed.
7. In the section **CC Configuration Tree**, select the check box for **Expand a node in the CC Configuration Tree upon user request (fast loading for big CC trees)**.



8. If Firewall Admin is already connected to a Control Center, press the F5 key on your keyboard to refresh the view for the configuration tree.

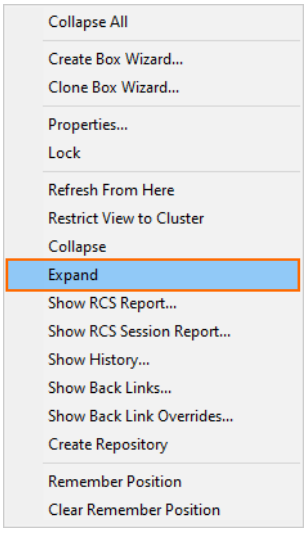
Step 2. Verify that Dynamic Loading Is Working

Example 1: Expand all clusters inside of a range with dynamic loading.

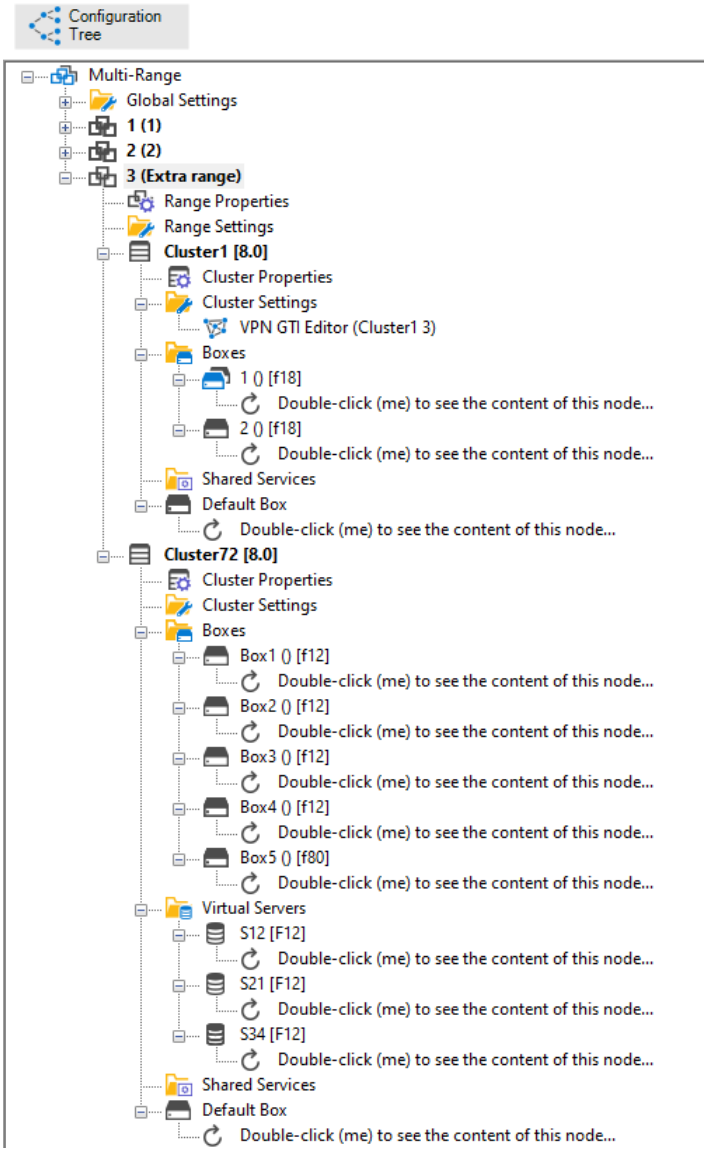
1. After refreshing the configuration tree, it will be displayed and all nodes will be collapsed.



2. Right-click a range, i.e., 3 (Extra range)
3. In the list, select **Expand**.

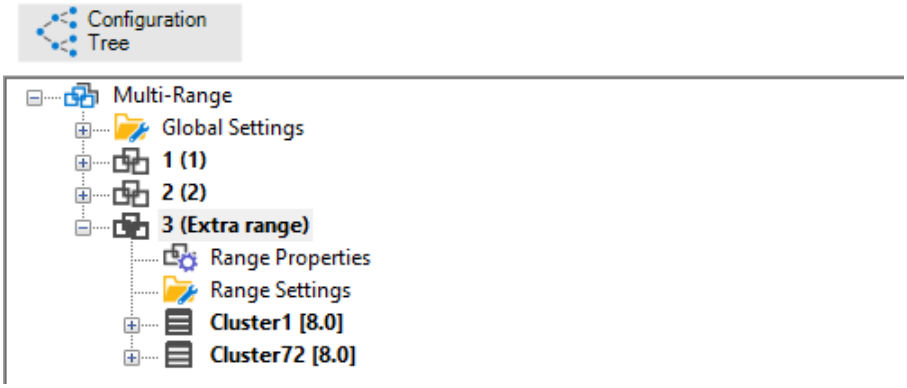


4. The configuration tree now displays all clusters and hides all included boxes.

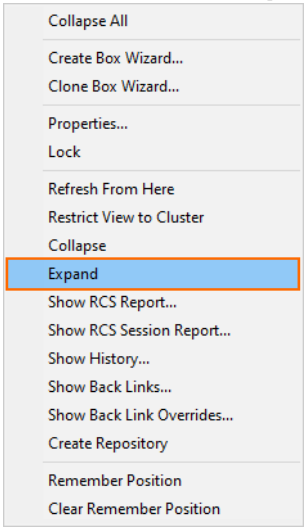


Example 2: Expand a single cluster inside of a range with dynamic loading.

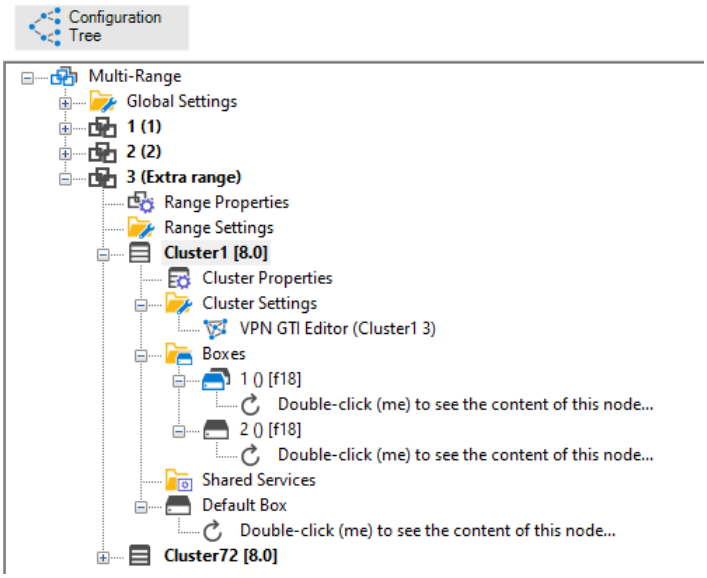
1. After refreshing the configuration tree, it will be displayed and all nodes will be collapsed.



2. Right-click a range, i.e., Cluster 1.
3. In the list, select **Expand**.

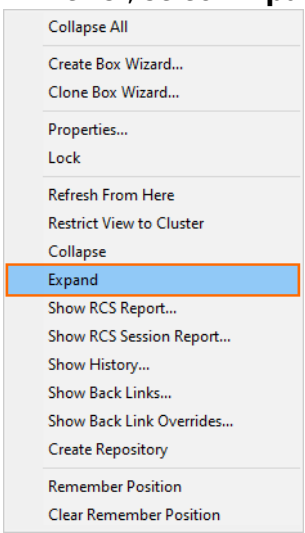


4. The configuration tree now displays the content of the cluster and hides all included boxes. All other ranges remain untouched.

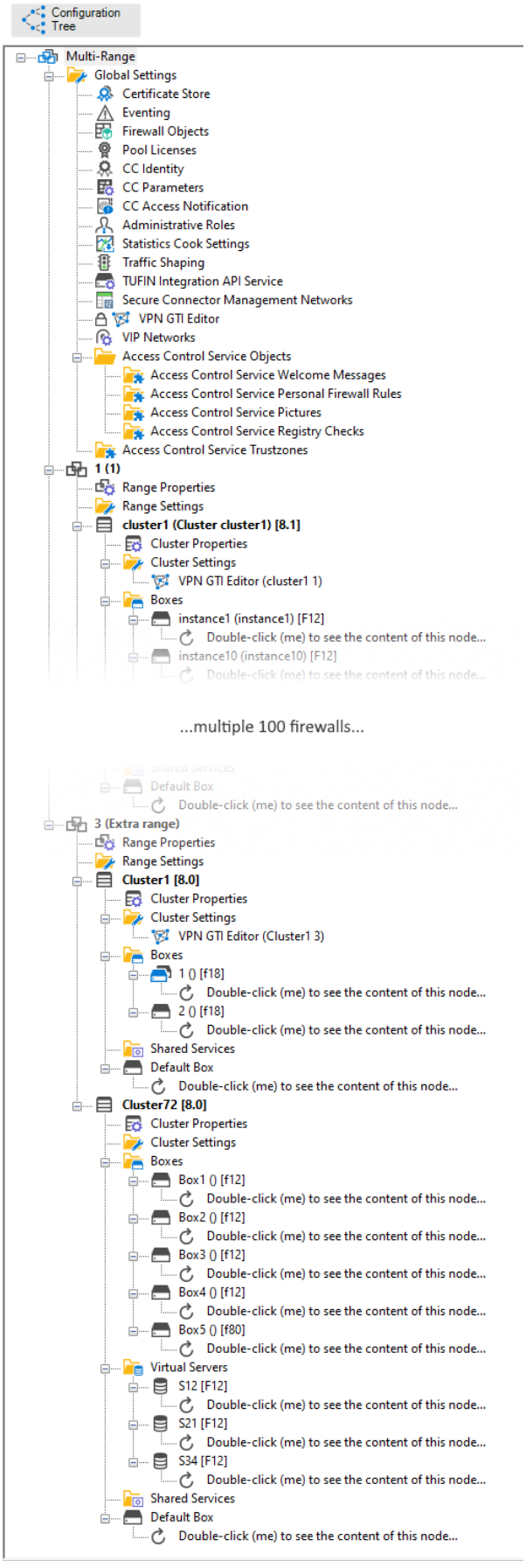


Example 3: Expand all ranges and clusters with dynamic loading.

1. Right-click **Multi-Range**.
2. In the list, select **Expand**.



3. Except for the contained box nodes, all range and cluster nodes are displayed expanded with dynamic loading:


Configuration Tree
Multi-Range
Global Settings
Certificate Store
Eventing
Firewall Objects
Pool Licenses
CC Identity
CC Parameters
CC Access Notification
Administrative Roles
Statistics Cook Settings
Traffic Shaping
TUFIN Integration API Service
Secure Connector Management Networks
VPN GTI Editor
VIP Networks
Access Control Service Objects
Access Control Service Welcome Messages
Access Control Service Personal Firewall Rules
Access Control Service Pictures
Access Control Service Registry Checks
Access Control Service Trustzones
1 (1)
Range Properties
Range Settings
cluster1 (Cluster cluster1) [8.1]
Cluster Properties
Cluster Settings
VPN GTI Editor (cluster1 1)
Boxes
instance1 (instance1) [F12]
Double-click (me) to see the content of this node...
instance10 (instance10) [F12]
...multiple 100 firewalls...
Default Box
Double-click (me) to see the content of this node...
3 (Extra range)
Range Properties
Range Settings
Cluster1 [8.0]
Cluster Properties
Cluster Settings
VPN GTI Editor (Cluster1 3)
Boxes
1 () [f18]
Double-click (me) to see the content of this node...
2 () [f18]
Double-click (me) to see the content of this node...
Shared Services
Default Box
Double-click (me) to see the content of this node...
Cluster72 [8.0]
Cluster Properties
Cluster Settings
Boxes
Box1 () [f12]
Double-click (me) to see the content of this node...
Box2 () [f12]
Double-click (me) to see the content of this node...
Box3 () [f12]
Double-click (me) to see the content of this node...
Box4 () [f12]
Double-click (me) to see the content of this node...
Box5 () [f80]
Double-click (me) to see the content of this node...
Virtual Servers
S12 [F12]
Double-click (me) to see the content of this node...
S21 [F12]
Double-click (me) to see the content of this node...
S34 [F12]
Double-click (me) to see the content of this node...
Shared Services
Default Box
Double-click (me) to see the content of this node...

Figures

1. cc_central_management_fast_loading_node.png
2. cc_central_management_fwadmin_admin_and_cc_settings.png
3. cc_central_management_cc_configuration_tree_settings.png
4. cc_central_management_cc_all_nodes_collapsed.png
5. cc_list_expand_node.png
6. cc_central_management_range_expanded.png
7. cc_central_management_cc_all_nodes_collapsed_2.png
8. cc_list_expand_node.png
9. cc_central_management_cluster_expanded.png
10. cc_list_expand_node.png
11. cc_central_management_config_tree_completely_expanded.png

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