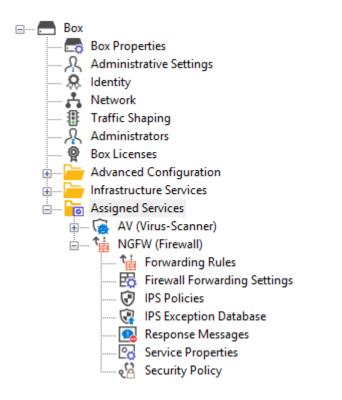


Migration of the Server Node to the Assigned Services Node (optional)

https://campus.barracuda.com/doc/91986262/

This article applies only to firewalls that are operating firmware 8.0.1, 8.0.2 or 8.0.3 and still display the old 3-layer architecture for server-service nodes in the configuration tree.

With the release of firmware version 8.0.2, you can now choose to transform the old 3-layer architecture to the new 2-layer architecture that was introduced with firmware version 8.0.1.



Choosing to do so is optional for firmware release 8.0.3 and will be enforced in the upcoming firmware versions.

The following table shows the different versions of how to migrate the server node to the new **Assigned Services** node:

Type of Firewall	Follow Migration Instructions
Stand-alone firewalls and CC (box-level only)	How to Migrate the Server Node to the Assigned Services Node for Stand-Alone Firewall and Control Centers (Box-Level only)
	How to Migrate the Server Node to the Assigned Services Node for CC-Managed Firewalls



ISTANG-AIGNA HA DAIRS	How to Migrate the Server Node to the Assigned Services Node for Stand-Alone HA Pairs
ICC-manaded HA hairs	How to Migrate the Server Node to the Assigned Services Node for CC-Managed HA Pairs

It is not possible to migrate boxes that have repositories linked to

- BOX/ Properties
- BOX/Network
- BOX/Infrastructure/Control

These nodes must be unlinked before starting the Assigned-Service-Migration process!

Known Issue after Box-Server Migration

After migrating the server node for CC-managed boxes, the status of the affected box will display the incorrect status **No** in the column **Has Service Container** in **CC > CONFIGURATION**:

CONTROL CONFIGURATION DATABASE	ADMINS	STATISTICS EVENTS	PKI	NET	WORK ACCESS CL	IENT FW A	UDIT	C
Configuration Tree			6	HA S	e - 📑	Activate 5	Undo	Not Disconnect
⊡— 🔂 Multi-Range	^	Open Nodes Boxes Server	Services V	/orkspace:	8			
1 (Central Europe)		Box	Cluster	Range	Box IP	Туре	Relea	Has Service Container
😥 🖬 2 (Western Europe)		Brussels () [VF1000]	Belgi	2	192.1	VF1000	8.0	No
3 (Southeastern Europe)		Espoo (RMT-MGMT) [VF100]	Finla	4	192.1	VF100	8.0	No
🛓 🗤 🔂 4 (Northern Europe)		Helsinki (RMT-MGMT) [VF100]	Finla	4	192.1	VF100	8.0	No
🛓 🗤 📷 Repository		Innsbruck () [VF1000]	Austria	1	192.1	VF1000	8.0	No
🖨 — 📷 Box		Nicosia () [VF500]	Cyprus	3	192.1	VF500	8.0	No
🛓 🔤 🥁 Administrative Settings		Tallinn () [VF1000]	Estonia	4	192.1	VF1000	8.0	No
🙀 Identity		Vienna () [VF1000]	Austria	1	192.1	VF1000	8.0	No
📄 ···· 🚘 Network								
autNW								

In addition, an incorrect status of the box is displayed in **CC > CONTROL**:

Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	▼ 5	▼ 5.	₹.	₹.	▼ 5.	▼ 5.	▼ 5.
Name	Description	Acc	Version	Country	Appliance	Serial	Server	S	N	U	A	R	V	C
4 th 2	Western Europe							5	*>	®	<i>₽</i> <u></u>	₩.	P.	Ë.
4 🛱 2/Belgium			8.0					5	+0	®	R.	1	P	Ê
🗖 Brussels		192.1	8.0.2-0119		VF1000	904646	Brussels	2	÷	%	2	÷	P.	Êò
4 th 3	Southeastern Europe							5	÷	®	ኤ	٣	Po	Ê
4 🛱 3/Bulgaria								5	**		R.	:	P	ŧ.

As a workaround, you can execute the command-line tool conftool r - rebuild_db which will update the database. As a result, the status of the migrated box will be displayed correctly.

Before You Begin

• Make sure you are familiar with the difference between the old 3-layer and the new 2-layer

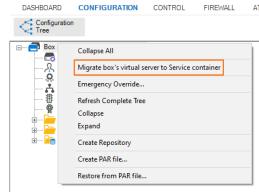


structure. For more information, see Understanding Assigned Services.

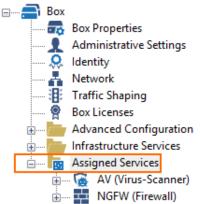
- The firewall/CC must have been upgraded from firmware version 7.x to 8.0.1 or 8.0.2 or 8.0.3.
- On a Control Center, the feature level for clusters must set to 8.0.
- The configuration tree must display the old 3-layer structure with a virtual server node.

How to Migrate the Server Node to the Assigned Services Node for Stand-Alone Firewalls and Control Centers (Box-Level Only)

- 1. Log into the firewall or Control Center on box level.
- 2. Right-click **Box**.
- 3. The window with the menu is displayed.



- 4. In the list, click Migrate box's virtual server to Service container.
- 5. The old 3-layer server-service node with the name **Virtual Servers** will be transformed into the new 2-layer service node with the name **Assigned Services**.
- 6. When the conversion is completed, the configuration tree will contain the node **Assigned Services**.



How to Migrate the Server Node to the Assigned Services Node for CC-Managed Firewalls



Before You Begin

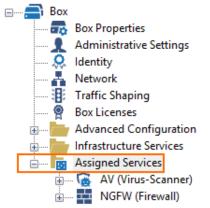
• On a Control Center, the feature level for the cluster the firewall lives in must be set to 8.0. For more information, see <u>How to Manage Ranges and Clusters</u>.

Migrating the Server Node

- 1. Log into the Control Center that manages the target firewall.
- 2. Go to CONFIGURATION > Configuration Tree > Multi Range > your range > your cluster > Boxes > your box.
- 3. Right-click Box.
- 4. The window with the menu is displayed.

DASHBOARD	CONFIGURATION CONTROL FIREWALL	
Configurat Tree	tion	
	Collapse All	
<u>Å</u>	Migrate box's virtual server to Service container	
	Emergency Override	
	Refresh Complete Tree	
¥	Collapse	
Ē Ē	Expand	_
÷ 🫅	Create Repository	
	Create PAR file	
	Restore from PAR file	

- 5. In the list, click Migrate box's virtual server to Service container.
- 6. When the conversion is completed, the configuration tree will contain the node **Assigned Services**.



How to Migrate the Server Node to the Assigned Services Node for Stand-Alone HA Pairs

Before You Begin

• This example assumes that you have an unmanaged/stand-alone pair of HA firewalls running.



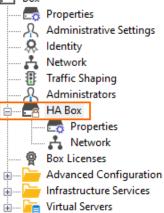
Migrating the Server Node

Step 1. Block the Server on the Secondary Firewall.

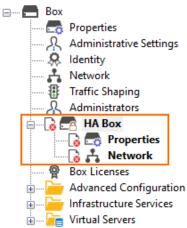
- 1. Log into the secondary firewall.
- 2. Go to CONTROL.
- 3. Click Block server.

Step 2. Remove the HA Box Node for the Secondary on the Primary Firewall.

- 1. Log into the primary firewall.
- 2. Go to **CONFIGURATION > Box > HA Box**.
- 3. Right-click **HA Box**.
- 4. In the list, click **Lock**.
- 🖃 🛶 🖪 Box



- 5. Right-click HA Box.
- 6. In the list, click **Remove**.
- 7. The node for HA box will be marked for deletion.

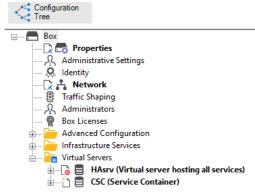


- 8. Click Send Changes.
- 9. Click Activate.

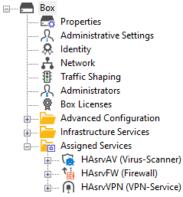
Step 3. Migrate the Virtual Server on the Primary Box.



- 1. Right-click **Box**.
- 2. In the list, click **Migrate box's virtual server to Service container**.
- 3. The window for Migrating Box's Server to Container Server is displayed.
- 4. Click **OK**.
- 5. The configuration tree will display the following:
 - 1. A new **Network** node.
 - 2. A new container for the services CSC(Service Container).
 - 3. A red deletion symbol on the old server node.



- 6. Click Activate.
- 7. After the server node has been migrated, the configuration tree will display the new **Assigned Services** node.



8. The names of the services will now consist of 'HAsrv' appended with the name of the service, e.g., HAsrvAV, HAsrvFW, HAsrvVPN.

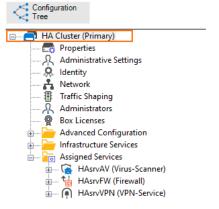
Step 4. Create the Secondary Box on the Primary Firewall.

- 1. Right-click Box.
- 2. In the list, click **Create Secondary Box**.
- 3. The **Network** window for entering the MIP for the secondary firewall is displayed.



Configuration	Device Name		
IP Configuration	Hostname	HA64br	in ~
nterfaces /irtual LANs /irtual Router	Management Network an		-
thernet Bundles outing	Interface	eth0 V	Other
DSL/DHCP	Primary Management IP		Ē~
Vireless WAN 7 Tunneling	Secondary Management IP	Ø	۳. ۲
tegrity Check	Associated Netmask	24-Bit	× .
ser Scripts	Responds to Ping	yes	✓
 Configuration Mode 	Use for NTPd	yes	✓
	Trust Level	Trusted (added to Trusted-LAN for Firewall)	✓ [‡]
	IMTU		Ēv
	Advertise Route	no	✓ [■]
	<) 🚌 Ē-

- 4. For **Secondary Management IP**, enter the IP address.
- 5. Click Send Changes.
- 6. Click **Activate**.
- 7. After the creation of the secondary box, the configuration tree on the primary firewall will display the name **HA Cluster (Primary)**.



Step 5. Reactivate the Network Configuration

- 1. Go to **CONTROL > Box**.
- 2. In the left navigation bar, click **Network**.
- 3. In the left navigation bar, click **Activate new network configuration**.

Step 6. Create the PAR File for the Secondary Firewall

The new configuration must be propagated to the primary firewall.

- 1. Go to **CONFIGURATION > Configuration > Box**.
- 2. Right-click **Box** and select **Create PAR file for secondary box...**
- 3. Save the PAR file for the secondary firewall.
- 4. Reconnect to the primary firewall to see the new **CONTROL** window.



Step 7. Import the PAR file into the Secondary Firewall

- 1. Log into the secondary firewall.
- 2. Go to **CONFIGURATION > Configuration Tree > Box**.
- 3. Right-click **Box** and select **Emergency Override**.
- 4. Right-click **Box** and select **Restore from PAR file**.
- 5. Click **OK**.
- 6. Click Activate.

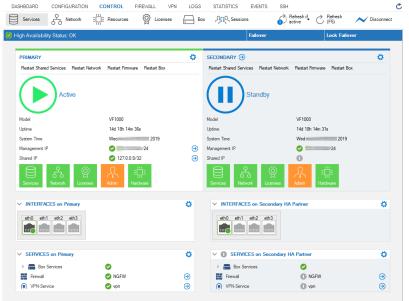
Step 8. Reactivate the Network Configuration

- 1. Go to **CONTROL > Box**.
- 2. In the left navigation bar, click **Network**.
- 3. In the left navigation bar, click Activate new network configuration.

Step 9. Reconnect to Both Firewalls to See the New CONTROL Window

Do the following steps on both the primary and secondary firewall:

- 1. Go to **CONFIGURATION**.
- 2. Click **Disconnect** on the right side of the ribbon bar.
- 3. The session to the firewall will be terminated.
- 4. Click **Connect** on the right side of the ribbon bar to reconnect to the firewall.
- 5. Go to CONFIGURATION > CONTROL.
- 6. The window now displays the new controls.



How to Migrate the Server Node to the Assigned Services Node for CC-Managed HA



Pairs

Before You Begin

• All repository links that refer to the Network node must be unlinked.

Step 1. Migrate the Primary Firewall

- 1. Right-click **Box**.
- 2. In the list, click Migrate box's virtual server to Service container.
- 3. A window is displayed that asks you if you want to keep the server or remove it.
- 4. Confirm which option is more important to you. In case you keep the server, it will stay in the configuration tree but will no longer have any function.
- 5. The window for **Migrating Box's Server to Container Server** is displayed.
- 6. Click **OK**.

Step 2. Delete the Secondary Firewall

The secondary firewall must be deleted in the configuration tree because it will be managed via the primary firewall.

- 1. Right-click **Box** of your secondary firewall.
- 2. In the list, click **Lock**.
- 3. Right-click **Box** of your secondary firewall.
- 4. In the list, click **Remove**.
- 5. Click **Activate**.

Step 3. Create the PAR File for the Secondary Firewall

On the primary firewall, right-click **Box**.

- 1. In the list, select **Create Secondary box**.
- 2. In the file selection window, provide a file name for the PAR file.
- 3. Go to Network.
- 4. Provide the IP address for the **Secondary Management IP**.



Configuration	Device Name		
IP Configuration	I Hostname	Vienna	Ē
Interfaces Virtual LANs	Management Natural	nd IDa	
Virtual Router	- Management Network a		_
Ethernet Bundles	Interface	eth0 🗸 🗌 Other	Ē
Layer2 Bridging Advanced Routing	Primary Management IP	192.168.10.10	Ē
xDSL/DHCP	Secondary Management IP	192.168.10.12	Ē
Wireless WAN IP Tunneling	Associated Netmask	24-Bit 🗸	Ē
Integrity Check	Responds to Ping	yes 🗸	Ē
User Scripts	Use for NTPd	yes 🗸	Ē
Configuration Mode	Trust Level	Trusted (added to Trusted-LAN for Firewall)	Ē
	∎мт∪	1500	Ē.
	Advertise Route	no 🗸	Ē
	Shared IPs in this Network	💉 + 🗙 🖻 🗐	Ē
		IP Address Alias for this IP Responds to	1
		< >	

- 5. Click Send Changes / Activate.
- 6. The node for the secondary firewall will disappear from the configuration tree. From now on, the secondary firewall will be configured via the primary firewall. Therefore, only the node for the primary firewall will be visible in the configuration tree.
- 7. Right-click **Box** for the primary firewall.
- 8. In the list, click Create PAR file for secondary.

Step 4. Import the PAR File on the Secondary Firewall

- 1. In the CC, click **Status Map**.
- 2. Locate the secondary firewall in the list of managed firewalls. The name of the new secondary firewall will now have the name of the box trailed by the appendix "-HA", e.g., MyBox-HA.
- 3. In the Status Map, double-click the entry of the secondary firewall.
- 4. On the secondary firewall, go to **CONFIGURATION**.
- 5. Right-click **Box**.
- 6. Click Emergency Override.
- 7. Right-click Box.
- 8. Click Restore from PAR File.
- 9. In the file selection window, select the PAR file to restore.
- 10. Click Activate.
- 11. Go to **CONTROL > Box**.
- 12. In the left navigation bar, click **Network** to expand the list.
- 13. In the list, click Activate new network configuration.
- 14. In the ribbon bar, click **Disconnect** to close the session to the secondary firewall.
- 15. In the ribbon bar, click **Connect** to re-establish a new session to the secondary firewall.
- 16. Go to **CONTROL** to see the new window contents.



igh Availability Status: OK				Failover	Lock Failover	
PRIMARY ()		0	SECONDARY (CONNECTED TO)			¢
Restart Shared Services 🔏 Restart Network 🛛 💀 Restart Firmware	C Restart Box		Restart Shared Services 🖧 Restart Network 📑	estart Rimware 👌 Restart Box		
Active			Standby			
Model	VF1000		Model	VF1000		
Uptime	3d 23h 54m 16s		Uptime	3d 23h 55m 49s		
System Time	Mon Dec. 9 14:52:55 2019		System Time	Mon Dec 9 14:52:54 2019		
Management IP	192.168.10.10/24		Management IP	192.168.10.12/24		
Shared IP	127.0.0.9/32		Shared IP	0		
Services Network Licenses Africe Hardware			Services Network Licenses Admin Har	ui ⊒ bware		
INTERFACES on		0	V INTERFACES on Secondary			
eth0 eth1			eth0 eth1			
SERVICES on		o	SERVICES on Secondary			
	9		Box Services	Ø		
A DHCP-Service		Э	DHCP-Service	WennaatDHCP		
🕍 Frewall		Э	🕍 Firewall	WennaatFW		
VPN-Service	S VernaatVPN	Э	VPN-Service	WennaatVPN		



Figures

- 1. assigned_services_tree.png
- 2. 7to8mig_wrong_status_display_01.png
- 3. 7to8mig_wrong_status_display_02.png
- 4. 7to8mig_boxlevel_standalone_CC_rmb_popup.png
- 5. 7to8mig_boxlevel_standalone_CC_mig_complete.png
- 6. 7to8mig_boxlevel_standalone_CC_rmb_popup.png
- 7. 7to8mig_boxlevel_standalone_CC_mig_complete.png
- 8. 7to8mig standalone HA pair lock HAbox.png
- 9. 7to8mig standalone HA pair remove HAbox.png
- 10. 7to8mig_standalone_HA_pair_transformed_server_node_HAbox.png
- 11. 7to8mig_standalone_HA_pair_server_node_transformation_complete_HAbox.png
- 12. 7to8mig standalone HA pair create secondary HAbox.png
- 13. 7to8mig_standalone_HA_pair_secondary_created_HAbox.png
- 14. HA_in_default_state.png
- 15. 7to8mig_provide_MIP_for_secondary.png
- 16. 7to8mig_new_CONTROL_window.png

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