

FSC VPN

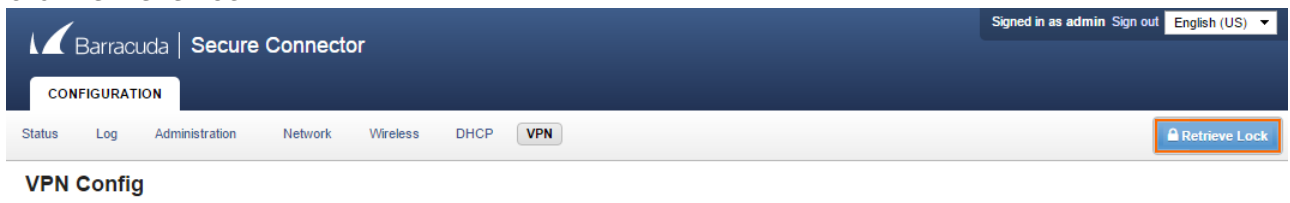
The Barracuda NextGen FSC-Series devices use a single site-to-site VPN tunnel to connect to the Secure Access Concentrator (FSAC). The VPN tunnel is used for both user and management traffic and runs on ports TCP/UDP 692. To be able to have both managed NextGen F-Series Firewalls and FSC-Series devices connect to an Access Concentrator and Control Center behind the same border firewall, you must use either two public IP addresses or configure the VPN connection to use another, free port. The VPN service can be configured in two modes:

- **Operational Mode** – Standard, certificate authenticated VPN tunnel.
- **Deployment Mode** – Passphrase authenticated VPN tunnel. Only use deployment mode to transfer the certificates, or to deploy remote FSC-Series devices. For more information, see [FSC-Series Deployment](#).

Configure VPN in Operational Mode using the FSC Web Interface

You can use the web interface of the FSC to configure the VPN in override mode.

1. Log into the web interface.
2. Go to the **CONFIGURATION > VPN** page.
3. Click **Retrieve Lock**.



4. Select **Enabled**.
5. Enter the **Box Unique Identifier**. Use the following format: *RANGENUMBER-CLUSTERNAME-FSCNAME*
E.g., 3-myScCluster-SC1.
6. Set the **Server Mode** to **Operative-Mode**.
7. Enter the **Virtual IP**. The IP address must be the first IP address of the subnet assigned to the FSC by the Control Center.
8. Enter the **Entry Point Address**. Typically this is the public IP of your FSAC, or the public IP address of the border firewall in front of your FSAC.
9. Enter 692 as the **Entry Point Port**.
10. (optional) Select the **Tunnel Mode**.
11. (optional) Select the **Encryption**.

The screenshot shows the 'VPN CONFIG' form with the following fields and values:

Field	Value
Enabled	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Box Unique Identifier	3-S-SeriesCluster-SC1
Server Mode	<input checked="" type="radio"/> Operative-Mode <input type="radio"/> Deployment-Mode
Virtual IP	10.33.0.1
Entry Point Address	88.116.13.171
Entry Point Port	692
Tunnel Mode	<input checked="" type="radio"/> TCP <input type="radio"/> UDP
Encryption	AES



12. Click **Save Changes**.
13. On the top of the page, click **Activate Configs**.
14. Click **Release Lock**.

The FSC connects via VPN to the FSAC and authenticates using the deployment password. Once connected, the Control Center pushes the configuration stored for the device to the FSC, and the VPN is switched to operational mode.

Configure VPN in Operational Mode in the Secure Connector Editor

To configure the VPN settings to connect to the FSAC in operational mode, you must use the Secure Connector Editor.

1. Go to **your cluster > Cluster Settings > Secure Connector Editor**.
2. Click **Lock**.
3. Double-click to edit the device or FSC template.
4. In the left menu, click **VPN Settings**.
5. From the **VPN Mode** drop-down list, select **Operative-Mode**.
6. Select the **VPN enabled** check box.
7. Click **New Key** to create a new **Private Key**.
8. Click **Edit** and create a new **Certificate**.

Secure Connector VPN Settings

VPN Mode	Operative-Mode		
VPN enabled	<input checked="" type="checkbox"/>		
Deployment Password			
Private Key	New Key...	Ex/Import	Hash: VCAYVS 2048 Bits
Certificate	Show	Edit...	Pub Hash: VCAYVS 2048 Bits
Virtual IP			
Virtual IP Mask	single-host		

9. Click **+** and enter the **Remote Networks** you want to route through the VPN tunnel. Enter **0.0.0.0/0** to send all traffic through the VPN tunnel and to allow the devices behind the FSC to access the Internet.
10. From the **Tunnel Mode** drop-down list, select **TCP** or **UDP**. Use UDP for response-optimized tunnels; use TCP for greater stability when using unstable Internet connections.
11. From the **Encryption** drop-down list, select one of the encryption algorithms: **DES**, **3DES**, **CAST**, **Blowfish**, **AES**, or **AES256**.



VPN Access Concentrator Settings

Remote Networks 📄 ✖️ + ✖️ ⬆️ ⬇️ 📄

0.0.0.0/0

Server Entry Point 📄 ✖️ + ⬆️ ⬇️ 📄

VPN Access Concentrator Public Key Ex/Import ▾ No key present 📄

Server Port 692 📄

Tunnel Mode TCP ▾ 📄

Encryption AES ▾ 📄

12. Click **OK** and **Activate**.

