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## How to Configure Client Certificate Authentication for the SSL VPN

<https://campus.barracuda.com/doc/48202675/>

The SSL VPN service supports authentication via client certificates either as the only authentication method, or in combination with user/password authentication. The client certificates must be installed on the client devices and can be used for the desktop and mobile portal as well as CudaLaunch on iOS and Android.

### Before You Begin

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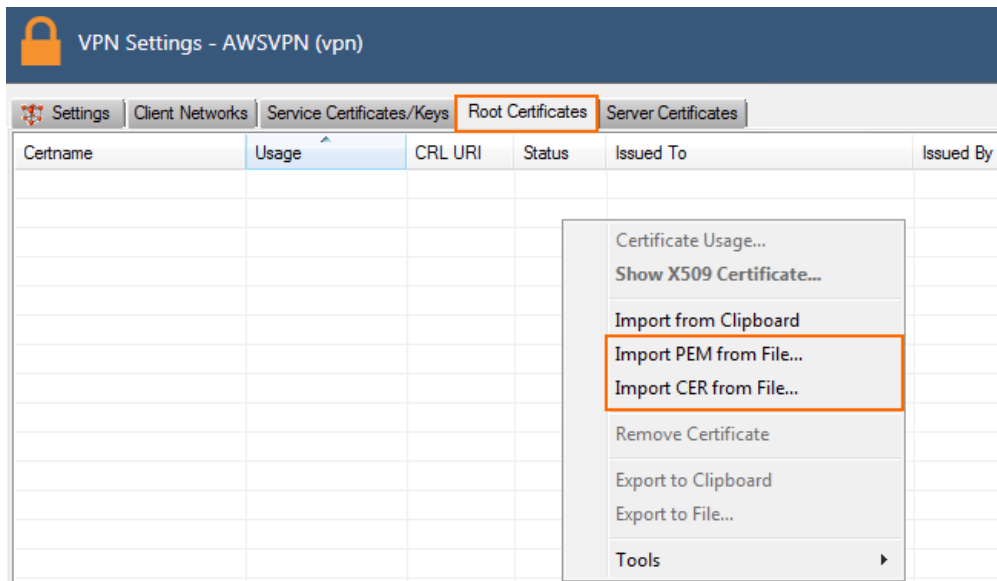
- Configure the SSL VPN service. For more information, see [How to Configure the SSL VPN Service](#).
- Create root and client certificates. For more information, see [How to Create Certificates for a Client-to-Site VPN](#).
- If you are using a mobile device, verify that client certificate authentication is supported. For more information, see [SSL VPN Supported Browsers and Mobile Devices](#)

### Step 1. Import Root certificate for VPN service

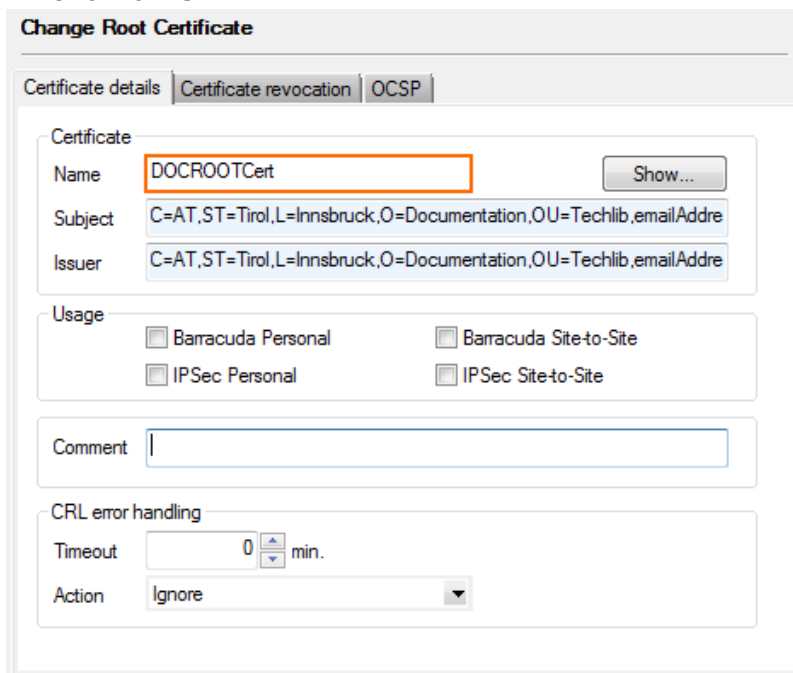
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Import the root certificate used to verify the client certificates. The certificate must be in PEM or CER format.

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > *your virtual server* > Assigned Services > VPN > VPN Settings**.
2. Click **Lock**.
3. Click on the **Root Certificates** tab.
4. Right-click in the list and select **Import PEM from File** or **Import CER from File** depending on the format of your certificate file.

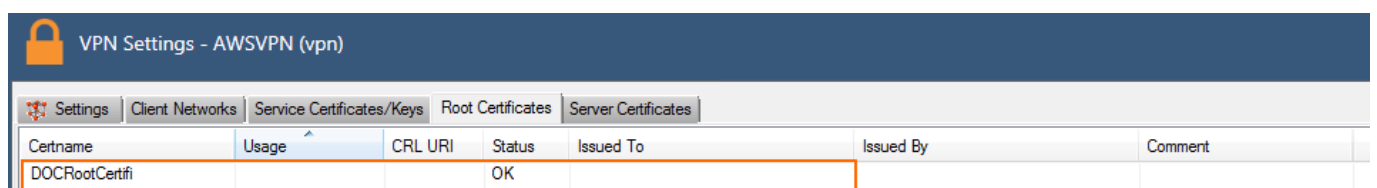


5. Select the certificate on your disk. The **Root Certificate** window opens.
6. Enter a **Name**.



7. Click **OK**.
8. Click **Send Changes** and **Activate**.

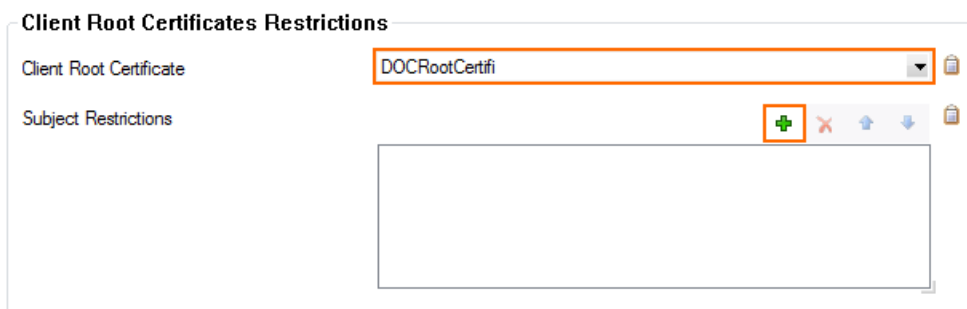
The root certificate is now listed in the **Root Certificates** tab.



## Step 2. Configure Client Authentication for SSL VPN

Configure the SSL VPN to use client certificate authentication.

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > your virtual server > Assigned Services > VPN > SSL VPN.**
2. Click **Lock.**
3. In the left menu, expand the **Configuration Mode** section and click **Switch to Advanced Mode.**
4. Set **Use Client Certificate Authentication:**
  - **yes** - Select to use client certificate authentication in addition to user/password authentication.
  - **cert-only** - Select to only use certificate authentication.
5. Click **+** to add an entry to the **Root Certificates** list. The **Root Certificates** window opens.
6. Enter a **Name** and click **OK.**
7. Select the root certificate you uploaded in Step 1 from the **Client Root Certificate** dropdown.
8. (optional) Add **Subject Restrictions** to allow only client certificates matching these patterns to connect.



9. Click **OK.**
10. Click **Send Changes** and **Activate.**

## Step 3. Restart the VPN Service

You must restart the VPN service for the changes to take effect.

1. Go to **CONTROL > Server.**
2. In the **Service Status** section select the VPN Service.
3. Click **Restart Service.**

| Service Status   |          |        |        |        |             |  |
|------------------|----------|--------|--------|--------|-------------|--|
| Server / Service | Num Proc | Num FD | Mem KB | Module | Info        |  |
| +                | box      |        |        |        |             |  |
| -                | AWSVIRT1 |        |        |        |             |  |
| -                | AWSFW    | 1      | 3      | 7540   | Firewall    |  |
| -                | AWSVPN   | 7      | 77     | 188468 | VPN-Service |  |

Block Service Start Service Stop Service **Restart Service**

You can now use client certificate authentication to log into the SSL VPN desktop and mobile portals as well as CudaLaunch.

## Next Steps

Install the client certificates on your client devices. When used in combination with CudaLaunch, see [How to Configure CudaLaunch for Mobile with Client Certificate Authentication](#).

## Figures

1. client\_cert\_auth01.png
2. client\_cert\_auth02.png
3. client\_cert\_auth03.png
4. client\_cert\_auth04.png
5. client\_cert\_auth05.png

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