

How to Configure NAC for SSL VPN

<https://campus.barracuda.com/doc/48203178/>

SSL VPN Network Access Control (NAC) limits access to the web portals of the SSL VPN service according to a variety of factors based on attributes of the connecting device. Users who fail the NAC check are not allowed to log in until they have a conforming system. You can define exceptions for each category. Use exceptions to allow/block specific versions denied in the NAC block list. For example, to allow only Windows 7 to connect: Block all Windows operating systems in the NAC block list and then add an exception for Windows 7. NAC settings do not apply to clients connecting via CudaLaunch. The following parameters are evaluated by the SSL VPN service when the user logs in:

- Desktop operating systems
- Mobile operating systems
- Desktop Browser types and versions
- Browser Plugins
- Mobile Browser types and versions

Step 1. Configure NAC Block List

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, click **NAC.**
4. Set **Enable NAC** to **Yes.**

Network Access Control

Enable NAC Yes

5. For each parameter, select the versions that should be blocked. Select **none** to not block according to this criteria. If the version number is not in the dropdown, select **Other** and type in the version number.

Block Desktop Browsers

Chrome	<input type="checkbox"/> None	<input type="checkbox"/> Other
Firefox	<input checked="" type="checkbox"/> 32	<input checked="" type="checkbox"/> Other
Internet Explorer	<input checked="" type="checkbox"/> <= 8	<input type="checkbox"/> Other
Microsoft Edge	<input checked="" type="checkbox"/> All	<input type="checkbox"/> Other
Opera	<input type="checkbox"/> None	<input type="checkbox"/> Other
Safari	<input type="checkbox"/> None	<input type="checkbox"/> Other

6. Click **Send Changes** and **Activate.**





Step 2. (optional) Configure NAC Exceptions

To exempt some configurations from the restrictions defined above, define NAC Exceptions to block or deny an entire category. Exceptions will override the criteria configured in Step 1. For example, to allow only Windows 7 to connect: Block all Windows operating systems in the NAC block list and then add an exception for Windows 7.

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, click **NAC**.
4. Click **+** for each **NAC Exception**. The **Enter Name** window opens.
5. Enter a name.
6. Click **OK**. The **NAC Exceptions** window opens.
7. Select the **Access** policy.
8. Select the Exception **Type**.


Access	<input type="text" value="Block"/>	
Type	<input type="text" value="Mobile Browser"/>	

9. Click **OK**. The subtype for the selected **Type** is displayed. E.g., **Mobile Browser type** if you selected **Mobile Browser** as the **Exception Type**.
10. Select the subtype and **Version** for the Exception type you previously selected. Select **Other** to enter a version number that is not listed.


Access	<input type="text" value="Block"/>	
Type	<input type="text" value="Mobile Browser"/>	
Mobile Browser	<input type="text" value="Android Browser"/>	
Version	<input checked="" type="checkbox"/> <input type="text" value="All"/>	<input type="checkbox"/> Other 

11. Click **OK**.
12. Click **Send Changes** and **Activate**.

All users accessing the SSL VPN mobile and desktop portal must now conform to the requirements set in the NAC block list. When a user logs in with a device that fails one or more of the server-side NAC checks, the following block pages are displayed:


 **SSL VPN**

Log In




The administrator of this system has disabled access based on your device

[Return to log in page](#)

 **Barracuda**

Access Rejected

The administrator of this system has disabled access based on your device



Check the **sslvpn** log file to find out which NAC block rule caused the user to be rejected:

AWSVIRT1\AWVPN1\sslvpn <new Log>

Select Log File AWSVIRT1\AWVPN1\sslvpn Reload Log File Tree

Time	Type	TZ	Message
2015 06 10 08:42:09	Info	+02:00	sslvpn: listening on 127.0.0.9@443 for https
2015 06 10 08:42:10	Info	+02:00	sslvpn: ===== orenosp/1.2.4 up and ready
2015 06 10 08:42:11	Info	+02:00	sslvpn: Session created for client: OS: Windows 8, OS Version: 6.2, Browser: Firefox, Browser Version: 38.0
2015 06 10 08:42:11	Info	+02:00	sslvpn: Created user session with token: 389316315
2015 06 10 08:42:11	Info	+02:00	sslvpn: Blocking Rule: sdfsd: Block: OS: Windows (Desktop) all versions, Client device: OS: Windows (Desktop), Version: 6.2
2015 06 10 08:42:11	Info	+02:00	sslvpn: Session created for client: OS: Windows 8, OS Version: 6.2, Browser: Firefox, Browser Version: 38.0
2015 06 10 08:42:11	Info	+02:00	sslvpn: Created user session with token: 1824509943
2015 06 10 08:42:11	Info	+02:00	sslvpn: Blocking Rule: sdfsd: Block: OS: Windows (Desktop) all versions, Client device: OS: Windows (Desktop), Version: 6.2
2015 06 10 08:43:06	Info	+02:00	sslvpn: Use Use Client Certificates has length 0, using default no
2015 06 10 08:42:09	Info	+02:00	sslvpn: SSL_CTX_set_options: removing SSL_OP_DONT_INSERT_EMPTY_FRAGMENTS

Figures

1. NAC01.png
2. NAC02.png
3. NAC03.png
4. NAC04.png
5. NAC_block_mobile.png
6. NAC_block_desktop.png
7. NAC05.png

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