

Barracuda NG Firewall Configuration

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Barracuda NG VPN configuration for SMS PASSCODE®

This guide outlines the process of configuring a Barracuda NG for Authentication with SMS PASSCODE®. In order to protect the Barracuda NG the Firmware must be at least version 5.2.3. (SSLVPN has been supported since version 5.2.2).

Authentication

Log on to the Barracuda NG administration console, go to authentication service and create a RADIUS Server.

The Radius Server Address must be set to the IP-address of the NPS server as the SMS PASSCODE radius authentication client. Ensure that the Radius Server Key match the Shared secret on the NPS server's radius client.

guration 📀	RADIUS Authentication Setting			
		\$		Activate Scheme
D Authentication	Activate Scheme	Yes	- 0	Enable Radius as external directory service.
	Activate scheme	165		Radius Server Address
D DC Client	Method	RADIUS	- 🗋	IP address of the Radius server
CHAP Authentication	B. C. C. Million	10.10.10.10	â	Radius Server Key
Authentication	Radius Server Address			Note: Do not use backslashes!
RADIUS Authentication	Radius Server Port	1812	â	Group Attribute
CS+ Authentication			-	Radius attribute used as user group
ACE Authentication	Radius Server Key	Current	Ô	Group Attribute Delimiter
Local Authentication		New		Delimiter used to separate groups
T Authentication		Confirm		Group Attribute Usage
				Define the used group information.
tional Schemes	Group Attribute	Login-LAT-Group	Û	All: Complete string.
cit Groups	Group Attribute Delimiter	📀 ; 🛛 🖾 🖉 Oth	er 🔒	First: Only the first group.
outs and Logging	Croup Autobate Delimiter	-	_	Last: Only the last group.
	Group Attribute Usage	📀 All 🔹	- 🗋	User Info Helper Scheme
guration Mode 📀 🗸	User Info Helper Scheme		- 6	Additional authentication scheme to determine additional group information.
	User Into Helper Scheme			NAS-ID
	NAS-ID		â	NAS identifier.
			-	NAS IP Address
	NAS IP Address		â	Some radius servers require NAS credentials to
	NAS IP Port		<u> </u>	be set.
			5	Define here the used IP address.
	Number of Processes	5		NAS IP Port
				Some radius servers require NAS credentials to be set.
	(1) This scheme is referred to as radius/F	IADIUS in this and other config parts.		Define here the used port number.
	_			Number of Processes



In Client VPN Go to External CA and press "Click here for options..." and make sure to check External Authentication and set the Authentication Scheme to radius

Status Config	Control	Firewall	VPN	SSL Proxy	Proxy	Logs	Statistics	Events	SSH		
🥠 🗮 Eu	ll nfig									II S	nfo Activate
Configurati server S1	on Overview / (Client VPN									Dis Im/Ex
Client VPN	Barracuda VPN (CA External	CA Mess	Group VPN Se		l 🕋 vo		8 FW			
SSL VPN	Group Policy		Commo	Change Gro		ettings					_
		ame EST	Secu No	-	Security Client Credent .ogin Matching		X509 Certificat			cation	Cert Policy/OID
				Server Authentica	tion Scheme		adius Ras Login pen	•]		
				Server Cert Server Prot]] Has Login per Use-Default- From-Server-Cer	•	a		
					Certificates Extraction Fi		Use-All-Known- NONE-	•			
			_	LDAP Attrib IP Attribute VPN Group	Name			•	virtual Clier	nt-IP from LDAP	
				Preauthent Preauthent	ication ication Scher	ne -	NONE-	·	Detail	s	
							ОК	Cancel			

Create a Group Policy with corresponding Group Policy Condition to allow access from the client.



Edit Group Policy							×
Name TEST	Disabled	Barracuda	IPSec				
Common Setting	gs TEST 💌 🔽	Barracuda	-		TES	ST	-
Statistic Name	TESTGP	Enable V		AC			
Network	TestNetwork 10.30.50.0 -	ENA	No	•	Split Tunne	ION	
DNS	10.5.0.6	Domain					
WINS		Firewall R	ules				
Network Routes	Network Boutes	VPN		$\overline{\mathbf{v}}$	Offline		Ψ.
	10.6.0.0/32	Message	Welcome	•	Bitmap		•
	10.0.0.0102	Registry		•	Firewall	Always ON	
		Кеу			Tunnel		
		Time Limit	10 mins	•	Probing	30 secs	•
Access Control	Access Control List	Traffic Limit	No Limit	•	Timeout	20 secs	•
List (ACL)		Accepted Ci	phers: 🔽 A			3DES 🔲 N DES	ull
Group Policy Co	ondition						
External Group	Client	×509 S	ubject	Cert Policy /	OID Peer		
	Barracuda , IPSec , Tr. Agent			/=			
						OK	Cancel

It is possible to limit to Group Pattern (Groups send in the Login-LAT-Group attribute)

Assigned VPN Gr	oup TEST
External Group Cond	tion (from external authentication)
Group Pattern	Lookup
example	e: memberOf: CN=group1,CN=Users,DC=smard,DC=test
	Pattern 1: "CN=Users > " substitutes for any zero or more characters
	Pattern 2: CN=group? > ? substitutes for any one character
X509 Certiticate Con	ditions
Subject	Edit/Show
Certificate Policy	(DID: 2.5.29.32)
Generic v3 OID	[610: 2.5:25:52]
aenenc v3 OID	•
	Content
Peer Condition	
Barracuda Client	Transparent Agent (SSL-VPN)
IPSec Client	
Peer Address/Netwo	rk
	Addr/Mask
Add Delete	
Mad Delete]

Configuration in SMS PASSCODE®

First, consult the SMS PASSCODE® Administrator Guide for configuration of the SMS PASSCODE Radius Client Protection.

Install the SMS PASSCODE radius protection and set side by side to Always in the SMS PASSCODE® configuration tool as illustrated below. You can configure this in the individual Connection Request Policy settings (1) or in the default settings (2).

SMS PASS	CODE® - Config			×	RADIUS Settings for "Barracuda" – – – ×
Database Backend Hosts Network End-user IP Password Reset RADIUS Client Protection Import/Export About Connection Request Policy SMS Protection Protection Using Default Settings Settings Baracuda Import / Export Ledt Netscaler NSProbeUser X Edt Use Windows authentication for all users Import X Edt					Authentication Authentization Miscellaneous Inherit default setting
Save	Edit default settings	2	Close		Default domains Add test 1 Remove test 1ocal Up Down Down

Open the Microsoft Windows Network Policy Server (NPS) and proceed to create a network policy. Once done, open the policy and choose the Windows group(s) that contains the users. Note the user must be a member of the group. For more details, please consult the SMS PASSCODE® Administrator Guide.

CP_V	PN Properties		×
Ove	erview Conditions Cons	traints Settings	
Ce	onfigure the conditions for t	his network policy.	
	-	ection request, NPS uses this policy to authorize the connection request. If conditions do not match the	
co	nnection request, NPS ski	ps this policy and evaluates other policies, if additional policies are configured.	
	Condition	Value	
•	Windows Groups	SMS\VPN	
	ndition description: ne Windows Groups condit	ion specifies that the connecting user or computer must belong to one of the selected groups.	
		Add Edit Remove	
_		OK Cancel Apply	



The Login-LAT-Group attribute can be used to send group name(s) to the Radius client.

CP_VPN Properties	×
Overview Conditions Constraints Settings	:
Configure the settings for this network policy. If conditions and constraints match the conne Settings: RADIUS Attributes Standard Vendor Specific Network Access Protection NAP Enforcement Extended State Routing and Remote Access Multiink and B andwidth Allocation Protocol (BAP) IP Filters Encryption P Settings	Attributes: Name Value FramedProtocol PPP Service-Type Framed Login-LAT-Group Group1; Group2; Group3
	OK Cancel Apply

This completes the setup of the integration.