## WatchGuard XTM and Firebox IPSec 2FA

logintc.com/docs/connectors/watchguard-ipsec



The LoginTC RADIUS Connector is a complete two-factor authentication virtual machine packaged to run within your corporate network. The LoginTC RADIUS Connector enables the WatchGuard XTM and Firebox VPN (e.g. **Mobile VPN with SSL or IPSec**) to use <u>LoginTC</u> for the most secure two-factor authentication. For instructions using direct authentication then you may be interested in: <u>Two factor authentication for WatchGuard XTM</u> and Firebox IPSec Alternative.

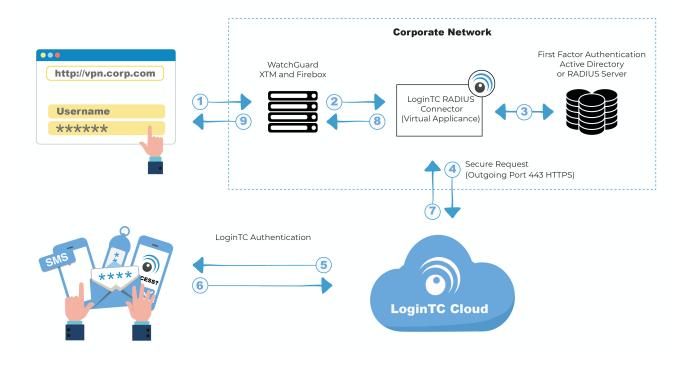
#### **User Experience**

After entering the username and password into the Mobile VPN client, the user is presented with an Authentication Message. The user may enter '1' to receive a push notification to their device to approve or enter a valid One-Time Password (OTP).

### **Video Instructions**

Watch Video At: https://youtu.be/mDQ9HdCqYK8

### Architecture



### Authentication Flow

- 1. A user attempts access with their existing WatchGuard client with username / password
- 2. A RADIUS authentication request is sent to the LoginTC RADIUS Connector
- 3. The username / password is verified against an existing first factor directory (LDAP, Active Directory or RADIUS)
- 4. An authentication request is made to LoginTC Cloud Services
- 5. Secure push notification request sent to the user's mobile or desktop device
- 6. User response (approval or denial of request) sent to LoginTC Cloud Services
- 7. The LoginTC RADIUS Connector polls until the user responds or a timeout is reached
- 8. RADIUS Access-Accept sent back to WatchGuard
- 9. User is granted access to WatchGuard

### Compatibility

WatchGuard appliance compatibility:

- WatchGuard Firebox T10 Series
- WatchGuard XTM 2 Series
- WatchGuard XTM 3 Series
- WatchGuard XTM 5 Series
- WatchGuard Unified Threat Management (UTM)
- WatchGuard Next-Generation Firewall (NGFW)
- WatchGuard appliance supporting RADIUS authentication

### Appliance not listed?

We probably support it. <u>Contact us</u> if you have any questions.

### Compatibility Guide

WatchGuard XTM, Firebox and any other appliance which have configurable RADIUS authentication supported.

### Prerequisites

Before proceeding, please ensure you have the following:

- LoginTC Admin Panel account
- Computer virtualization software such as <u>VMware ESXi</u>, <u>VirtualBox</u>, or <u>Hyper-V</u>
- Virtual Machine requirements:
  - 2048 MB RAM
  - 8 GB disk size

### **Create Application**

Start by creating a LoginTC Application for your deployment. An Application represents a service (e.g. An application is a service (e.g., VPN or web application) that you want to protect. e) that you want to protect with LoginTC.

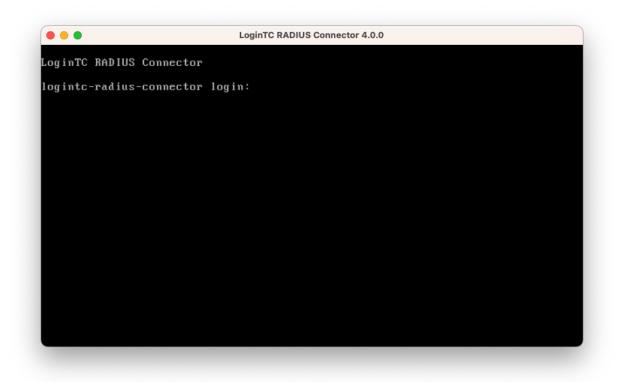
Create a LoginTC Application in LoginTC Admin Panel, follow Create Application Steps.

If you have already created a LoginTC Application for your deployment, then you may skip this section and proceed to <u>Installation</u>.

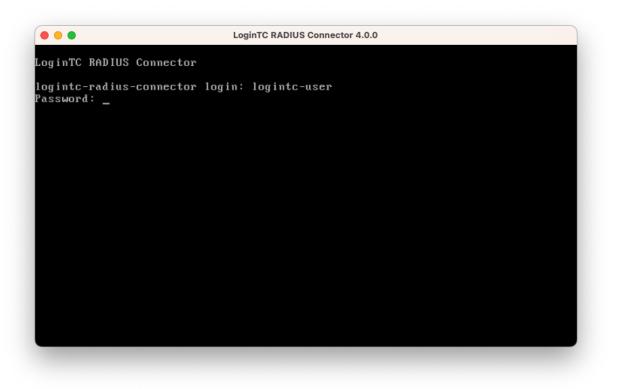
### Installation

- 1. Import the virtual appliance your computer virtualization software Instructions for Hyper-V
- 2. Ensure that LoginTC RADIUS CONNECTOR has a virtual network card
- 3. Start the virtual appliance

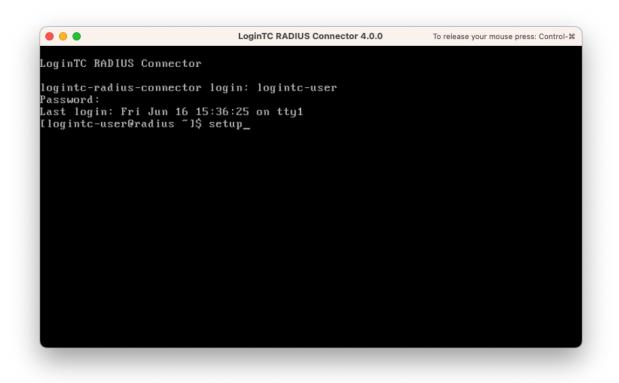
4. You will be with a console prompt:



5. Login using the username **logintc-user** and default password **logintcradius**:



6. Once logged in type **setup**:



7. Follow the on-screen prompt to setup a new password for logintc-user:

LoginTC RADIUS Connector 4.0.0
I
***** Welcome to LoginTC RADIUS Connector *****
Start by setting the logintc-user password. Press enter to continue

8. By default the appliance network is not configured. Manually configure the network by typing **1** and hit enter:



9. Follow the on-screen prompts to setup the network. When done, type **1** and enter to confirm the settings:

	LoginTC RADIUS Connector 4.0.0	
	uses default value shown in []. e to exit the wizard.	
	0.0]: 172.20.221.1	
Network configuration	summary:	
Subnet Mask: Gateway IP Address:		
Is this correct?		
1) Yes 2) No, start over 3) Exit without savin	a	
Enter an option: _		

10. You will be presented with the network configuration which includes the URL to connect to the appliance from a web browser (example https://172.20.221.105:8443):

CoginTC RADIUS Connector 4.0.0		
	_I \I	
dministration Panel URL: P Address: ubnet Mask: ateway IP Address: NS 1: NS 2:	https://172.20.221.105:8443 172.20.221.105 255.255.255.0 172.20.221.1 172.20.221.1 172.20.221.1	
) Configure Network ) Reset logintc-user pass ) Exit	word	
nter an option:		

11. Navigate to the URL shown in the console dashboard (example: https://172.20.221.105:8443):

# S Login**TC**

	LoginTC RADIUS Connector	
Username		
Password		
	Log in	

Version 0.1.0-SNAPSHOT

12. Login using the username **logintc-user** and the password that was set in the initial setup:



LoginTC RADIUS Connector				
Username				
logintc-user				
Password				
	Log in			

Version 0.1.0-SNAPSHOT

13. Link to your existing LoginTC organization. The 64-character Organization API Key is found on the LoginTC Admin Panel under **Settings** >page **API** >page **Click to view**, also see <u>Organization API Key</u>:

S Login <b>TC</b>
Welcome to LoginTC RADIUS Connector!
Organization API Key
The 64-character organization API key is found on the LoginTC Admin Panel Settings page.
Change LoginTC API Host
HTTP Proxy O Enabled O Disabled
Next
Log out

14. Confirm the LoginTC organization name and click **Continue to LoginTC RADIUS Connector**:



Organization Found:

Example Inc.

Continue to LoginTC RADIUS Connector

Log out

15. If you have an existing LoginTC RADIUS Connector your wish to import configurations then click **Yes, import configurations from an existing LoginTC RADIUS Connector**, otherwise click **No, continue to the adminsitration panel**:

🔊 Login <b>TC</b>
Import configuration from an existing LoginTC RADIUS Connector?
If you have already deployed an older version of the LoginTC RADIUS Connector then you can attempt to import the configurations. The criteria for a successful import are:
Network Connectivity
Valid account credentials
LoginTC RADIUS Connector v2.7.1 - v3.0.7
Configurations using Applications (not Domains)
Yes, import configurations from an existing LoginTC RADIUS Connector
No. continue to the administration panel
No, continue to the administration panel

Log out

### NOTE

These instructions assume a new environment. For a complete 2.X / 3.X to 4.X upgrade guide: LoginTC RADIUS Connector Upgrade Guide

16. Now you are ready to use the LoginTC RADIUS Connector:

SLoginTC LoginT	C RADIUS Connector		🤳 Support 🛛 🗘 Log out
GENERAL	♥ Endpoints		+ Create Endpoint
🕌 User Directories	Endpoints are application and net	work boundaries where users authenticate	
E Logs			
🕐 Status			
APPLIANCE			
🍫 Settings		You haven't created any endpoints yet.	
SETUP		+ Create your first endpoint	
🏘 Settings		or	
🕜 Upgrade		- Import from an existing LoginTC RADIUS Connector	
Version 0.1.0-SNAPSHOT			

The LoginTC RADIUS Connector runs Linux with <u>SELinux</u>. A firewall runs with the following open ports:

Port	Protocol	Purpose
1812	UDP	RADIUS authentication
443	TCP	API traffic
8443	TCP	Web interface
123	UDP	NTP, Clock synchronization (outgoing)

**Note: Username and Password** logintc-user is used for SSH and web access. The default password is logintcradius. You will be asked to change the default password on first boot of the appliance.

### Configuration

Endpoints describe how the appliance will authenticate your <u>RADIUS</u>-speaking device with an optional first factor and LoginTC as a second factor. Each endpoint has **4 Sections**:

### 1. LoginTC Settings

This section describes how the appliance itself authenticates against <u>LoginTC Admin</u> <u>Panel</u> with your LoginTC <u>Application</u>. Only users that are part of your organization and added to the domain configured will be able to authenticate.

### 2. User Directory

This section describes how the appliance will conduct an optional first factor. Either against an existing LDAP, Active Directory or RADIUS server. If no first factor is selected, then only LoginTC will be used for authentication.

### 3. Challenge Strategy / Passthrough

This section describes whether the appliance will perform a LoginTC challenge for an authenticating user. The default is to challenge all users. However with either a static list or Active Directory / LDAP Group you can control whom gets challenged to facilitate seamless testing and rollout.

### 4. Client Settings

This section describes which <u>RADIUS</u>-speaking device will be connecting to the appliance and whether to encrypt API Key, password and secret parameters.

The **web interface** makes setting up an endpoint simple and straightforward. Each section has a **Test** feature, which validates each input value and reports all potential errors. Section specific validation simplifies troubleshooting and gets your infrastructure protected correctly faster.

### First Endpoint

Close the console and navigate to your appliance **web interface** URL. Use username logintc-user and the password you set upon initial launch of the appliance. You will now configure the LoginTC RADIUS Connector.

Create a new endpoint file by clicking + Create your first endpoint:

ခါ Login <b>TC</b> Login	TC RADIUS Connector	🤳 Support 🕻 🗘 Log out
GENERAL	♥ Endpoints	+ Create Endpoint
Endpoints User Directories	Endpoints are application and network boundaries where users authenticate	
Logs		
🕐 Status		
* Settings	You haven't created any endpoints yet.	
SETUP	+ Create your first endpoint	
🍫 Settings	or	
O Upgrade	- Import from an existing LoginTC RADIUS Connector	
Version 4.0.0		

### LoginTC Settings

A list of available Applications will be displayed from your LoginTC organization. Select which LoginTC **Application** to use:

ginTC RADIUS Connector		J Support 〔→ Log out
Create / Lo	oginTC Application	Step 1 of 4 Cancel
Select an application from you	ir LoginTC organization. Applications dictate which domain and po	olicies are used.
	Cisco ASA SSL VPN	
CISCO.	Cisco ASA SSL VPN 🎄 Example Inc. Secure Access	
	Fortinet FortiGate SSL VPN	
	■ Fortinet FortiGate SSL VPN 🎄 Example Inc. Secure Access	
	Conoria AD ES	
AD FS	Generic AD FS 🎄 Example Inc. Secure Access	
Generic	Generic RADIUS	
	📰 Generic RADIUS  🚓 Example Inc. Secure Access	
	Microsoft OWA	
	Endpoints / Create / Lo          Select an application from you         .1))         CISCO.         F::RTINET.         Generic         AD FS	<ul> <li>♥ Endpoints / Create / LoginTC Application</li> <li>Select an application from your LoginTC organization. Applications dictate which domain and point of the second se</li></ul>

Configure the application:

SLogin <b>TC</b> LoginT	C RADIUS Connector		🤳 Support 🕻 🕈 Log out
GENERAL	Create / Lo	oginTC Application	Step 1 of 4 Back Cancel
<ul> <li>Endpoints</li> <li>User Directories</li> <li>Logs</li> <li>Status</li> </ul>	Generic RADIUS	Generic RADIUS A Example Inc. Secure Access	
APPLIANCE *& Settings SETUP * Settings © Upgrade	LoginTC Application	Application ID         3682ec813e2fd280032ad0cf57ec140923405391         The 40-character Application ID is found on the LoginTC Adr         Application API Key         79EPAK5OgrVEk1p5D3po4n7mtCD23JdAqaAGPKLKcPHsLM         The 64-character Application API key is found on the LoginTC	/Hne2KRrDvdDl24D9V1
Version 4.0.0	The 64-character Application API key is found on the LoginTC Admin Panel Ap		
	IP Address The IP Address will be shown to the end user prior to approving the request. The corresponding LoginTC domain will need to be configured with an IP Address domain attribute.	O No, do not send IP Address of originating request RADIUS Attribute Name Calling-Station-Id	

### Configuration values:

Property	Explanation
Application ID	The 40-character Application ID, retrieve Application ID
Application API Key	The 64-character Application API Key, <u>retrieve Application API Key</u>
Request Timeout	Number of seconds that the RADIUS connector will wait for

The Application ID and Application API Key are found on the LoginTC Admin Panel.

### **Request Timeout**

Make a note of what you set the Request Timeout to as you will need to use a larger timeout value in your RADIUS client. We recommend setting the Request Timeout value to 60 seconds in the LoginTC RADIUS Connector and setting the RADIUS authentication server timeout to 70 seconds in RADIUS Client. For more information see: <u>Recommended settings</u> for an optimal user experience for VPN access

J Support 🕻 🗘 Log out Endpoints / Create / LoginTC Application GENERAL Step 1 of 4 Back Cancel Endpoints Ser Directories Generic RADIUS Generic RADIUS 🚼 Generic RADIUS 🛛 🚓 Example Inc. Secure Access Logs Status LoginTC Application Application ID APPLIANCE 3682ec813e2fd280032ad0cf57ec140923405391 \* Settings The 40-character Application ID is found on the LoginTC Admin Panel Application page. SETUP Application API Key ♣ Settings 79EPAK5OgrVEk1p5D3po4n7mtCD23JdAqaAGPKLKcPHsLMHne2KRrDvdDl24D9V1 O Upgrade The 64-character Application API key is found on the LoginTC Admin Panel Application page. Version 4.0.0 **Request Timeout** Request Timeout 60 The amount of time in seconds the LoginTC RADIUS Connector should poll for a user to respond. The value should be 10 seconds shorter than the timeout in your RADIUS client (e.g. VPN). For example if the VPN timeout is 90 seconds, this value should be no longer than 80 seconds. IP Address Yes, send IP Address of the originating request when available The IP Address will be shown O No, do not send IP Address of originating request to the end user prior to approving the request. The **RADIUS Attribute Name** corresponding LoginTC domain will need to be Calling-Station-Id configured with an IP Address The RADIUS attribute used by the VPN client to send the client IP Address. domain attribute. 🗬 Test Test successful, click Next to continue

Click Test to validate the values and then click Next:

### User Directory

Configure the user directory to be used for first authentication factor in conjunction with LoginTC. You may use Active Directory / LDAP or an existing RADIUS server. You may also opt not to use a first factor, in which case LoginTC will be the only authentication factor.

SLogin <b>TC</b> LoginTC	RADIUS Connector	J Support	〔→ Log out
GENERAL	Create / User Directory	Step 2 of 4 Ba	ck Cancel
<ul> <li>Endpoints</li> <li>User Directories</li> </ul>	Select a user directory to leverage for username and password authentication		
Logs  Status  APPLIANCE	Active Directory Leverage your Active Directory.		
¢⇔ Settings SETUP ¢⇔ Settings	Generic LDAP Leverage your LDAP server.		
<ul> <li>Upgrade</li> <li>Version 4.0.0</li> </ul>	R Generic RADIUS Leverage your RADIUS server.		
	or		
	Continue without a User Directory Users will not be challenged with password authentication. (Can be changed at a	any time)	

### Active Directory / Generic LDAP Option

Select **Active Directory** if you have an AD Server. For all other LDAP-speaking directory services, such as OpenDJ or OpenLDAP, select **Generic LDAP**:

SLogin <b>TC</b> LoginTC	C RADIUS Connector		🤳 Su	pport	〔◆ Log out
GENERAL	😫 User Directories / Cre	eate / Configure Active Directory Server	Step 2 of 2	Back	Cancel
C Endpoints	Connection Details	Name (optional)			
<ul> <li>User Directories</li> <li>Logs</li> </ul>		Active Directory Server			
🕐 Status		Name of the Active Directory server. IP Address or Host Name			
APPLIANCE					
<b>≉₽</b> Settings		The IP address or host name of the Active Directory Server.			
SETUP		Port (optional) 389			
✿ Settings ⓓ Upgrade		The default is 389 for LDAP and 636 for LDAPS (LDAP + SSL).			
Version 4.0.0		● No connection encryption ○ SSL ○ STARTTLS			
	Bind Details	• Bind with credentials O Anonymous			
	How to authenticate against Active Directory to verify a username and password.	Bind DN			
		DN of an account with read access to the directory. Example:	: cn=admin,dc=e	example,	dc=com.
		Bind Password			
		The password for the above Bind DN account.			
	Query Details	Base DN			
	Where and how to find relevant user entries.				
		The top-level DN that usernames will be queried from. Exam	ple: dc=exampl	e,dc=con	л.

### Configuration values:

Property	Explanation	Examples
host	Host or IP address of the LDAP server	ldap.example.com <b>or</b> 192.168.1.42
port (optional)	Port if LDAP server uses non-standard (i.e., 389/636)	4000
bind_dn	DN of a user with read access to the directory	<pre>cn=admin,dc=example,dc=com</pre>
bind_password	The password for the above bind_dn account	password
base_dn	The top-level DN that you wish to query from	dc=example,dc=com

Explanation	Examples
The attribute containing the user's username	sAMAccountName <b>or</b> uid
The attribute containing the user's real name	displayName or cn
The attribute containing the user's email address	mail or email
The name of the LDAP group to be sent back to the authenticating server.	SSLVPN-Users
Encryption mechanism	ssl <b>or</b> startTLS
CA certificate file (PEM format)	/opt/logintc/cacert.pem
	The attribute containing the user's username The attribute containing the user's real name The attribute containing the user's email address The name of the LDAP group to be sent back to the authenticating server. Encryption mechanism CA certificate file (PEM

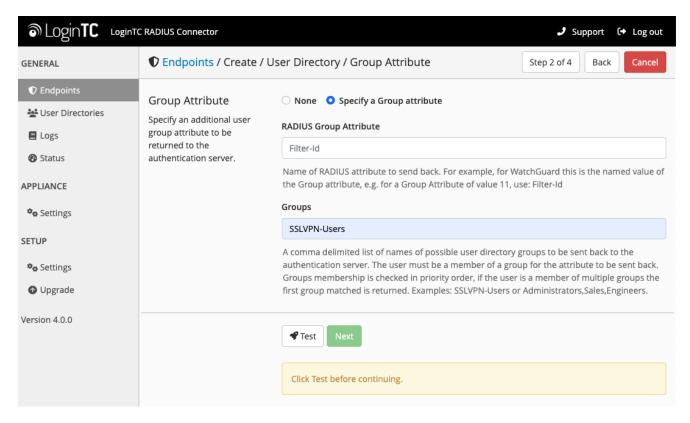
Click **Test** to validate the values and then click **Next**.

#### Group Attribute and Access Control

In order to use Mobile VPN with SSL or IPSec, you must properly configure the **Group Attribute** in your RADIUS Connector. WatchGuard devices use the Group Attribute value to set the attribute that carries the User Group information. This information is used for access control.

To match WatchGuard's default values, set RADIUS Group Attribute to Filter-Id and LDAP Group to SSLVPN-Users

**LDAP Group / AD Group** : The name of a group in the LDAP Directory that all authenticating users belong to. The group name must also be added to WatchGuard's list of groups authorized to authenticate using SSL. By default this is only the SSLVPN-Users group, but other groups can be added manually from the WatchGuard Web UI.



Click Test to validate the values and then click Next.

### **Existing RADIUS Server Option**

If you want to use your existing RADIUS server, select RADIUS:

SLogin <b>TC</b> LoginTC	C RADIUS Connector		🤳 Sup	oport	〔→ Log out
GENERAL	😫 User Directories / Cre	ate / Configure RADIUS Server	Step 2 of 2	Back	Cancel
♥ Endpoints	RADIUS Server Details	Name (optional)			
🛬 User Directories		Generic RADIUS Server			
E Logs		Name of the RADIUS server.			
🕐 Status		IP Address or Host Name			
APPLIANCE					
🍫 Settings		The IP address or host name of the RADIUS Server.			
SETUP		Authentication Port			
🍫 Settings		1812			
🚯 Upgrade		The authentication port of the RADIUS server.			
Version 4.0.0		Shared Secret			
		The RADIUS shared secret.			
		וופ ההטוטי אוומופע צפנופנ.			
		Test Create			
		Click Test before continuing.			

#### Configuration values:

Property	Explanation	Examples
IP Address or Host Name	Host or IP address of the RADIUS server	radius.example.com <b>or</b> 192.168.1.43
Authentication Port (optional)	Port if the RADIUS server uses non-standard (i.e., 1812)	1812
Shared Secret	The secret shared between the RADIUS server and the LoginTC RADIUS Connector	testing123

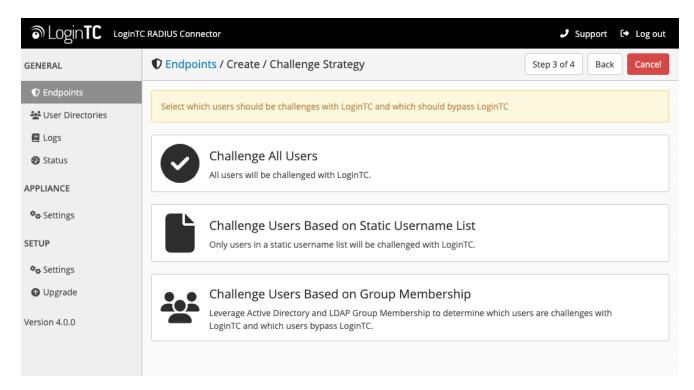
### **RADIUS Vendor-Specific Attributes**

Common Vendor-Specific Attributes (VSAs) returned by the RADIUS server will be relayed.

Click **Test** to validate the values and then click **Next**.

### Challenge Strategy / Passthrough

Configure which users will be challenged with LoginTC. This allows you to control how LoginTC will be phased in for your users. This flexibility allows for seamless testing and roll out.



For example, with smaller or proof of concept deployments select the <u>Static List</u> option. Users on the static list will be challenged with LoginTC, while those not on the list will only be challenged with the configured <u>First Authentication Factor</u>. That means you will be able to test LoginTC without affecting existing users accessing your VPN.

For larger deployments you can elect to use the <u>Active Directory or LDAP Group</u> option. Only users part of a particular LDAP or Active Directory Group will be challenged with LoginTC. As your users are migrating to LoginTC your LDAP and Active Directory group policy will ensure that they will be challenged with LoginTC. Users not part of the group will only be challenged with the configured <u>First Authentication Factor</u>.

### Challenge All Users

Select this option if you wish every user to be challenged with LoginTC.

### Challenge Users Based on Static Username List

Select this option if you wish to have a static list of users that will be challenged with LoginTC. Good for small number of users.

SLOginTC LoginTC	C RADIUS Connector		🤳 Support 🛛 🕞 Log out
GENERAL	Create / Challenge Strategy		Step 3 of 4 Back Cancel
<ul> <li>Endpoints</li> <li>User Directories</li> <li>Logs</li> <li>Status</li> <li>APPLIANCE</li> <li>Settings</li> <li>SETUP</li> <li>Settings</li> <li>Upgrade</li> </ul>	Static Username List Only users in a static username list will be challenged with LoginTC.	Challenge Users  Enter a newline separated list of usernames that will be chalthis list will bypass LoginTC. Example:  jane.doe jane.smith john.doe john.smith	llenged with LoginTC. Users not in
Version 4.0.0		Test Next Click Test before continuing.	

LoginTC challenge users: a new line separated list of usernames. For example:

jane.doe jane.smith john.doe john.smith

### Challenge Users Based on Group Membership

Select this option if you wish to have only users part of a particular Active Directory or LDAP group to be challenged with LoginTC. Good for medium and large number of users.

SLOginTC LoginTC	CRADIUS Connector		🤳 Support 🕻 🗘 Log out
GENERAL	Create / Create / Ch	nallenge Strategy	Step 3 of 4 Back Cancel
<ul> <li>Endpoints</li> <li>Endpoints</li> <li>User Directories</li> <li>Logs</li> <li>Status</li> <li>APPLIANCE</li> <li>Settings</li> <li>SETUP</li> <li>Settings</li> <li>Upgrade</li> <li>Version 4.0.0</li> </ul>	Group Membership Precedence is always given to bypass groups when both challenge and bypass groups are specified.	Challenge Groups Comma separated list of groups whose users will be challen Users Bypass Groups Comma separated list of groups whose users will always by Test Next Click Test before continuing.	iged with LoginTC. Example: 2FA

### Configuration values:

Property	Explanation	Examples
Challenge Groups (Optional)	Comma separated list of groups for which users will be challenged with LoginTC	SSLVPN- Users <b>or</b> two- factor-users
Challenge Groups (Optional)	Comma separated list of groups for which users will always bypass LoginTC	NOMFA-Users

Click **Test** to validate the values and then click **Next**.

### Client Settings

Configure RADIUS client (e.g. your RADIUS-speaking VPN):

SLogin <b>TC</b> LoginTC	C RADIUS Connector		🤳 Support 🕻 🗘 Log out
GENERAL	Create / C	lient Settings	Step 4 of 4 Back Cancel
Endpoints	Generic RADIUS	Name (optional)	
🚔 User Directories	Details	Generic RADIUS	
E Logs		Name for the endpoint.	
🕐 Status		IP Address	
APPLIANCE			+
🍫 Settings		The IP Address or IPv4 CIDR Block of the Generic RADIUS. Fo	r example 192.168.0.1 or
SETUP		192.168.0.0/16.	
<b>¢</b> ₽ Settings		Shared Secret	
Upgrade			
•		The RADIUS shared secret.	
Version 4.0.0	Authentication Mode		
		• Direct Iframe Challenge Challenge Intera	ictive
	How the LoginTC authentication is performed	Send authentication request directly and automatically.	

Client configuration values:

Property	Explanation	Examples
name	A unique identifier of your RADIUS client	CorporateVPN
IP Addresss	The IP address of your RADIUS client (e.g. your RADIUS- speaking VPN). Add additional IP Addresses by clicking <b>plus</b> .	192.168.1.44
Shared Secret	The secret shared between the LoginTC RADIUS Connector and its client	bigsecret

Under Authentication Mode select Challenge

SLogin <b>TC</b> LoginTC	C RADIUS Connector		🤳 Su	pport (	🕩 Log out			
GENERAL	Create / Client Settings			Back	Cancel			
Endpoints	Generic RADIUS	Name (optional)						
🚔 User Directories	Details	Generic RADIUS						
E Logs		Name for the endpoint.						
🕐 Status		IP Address						
APPLIANCE					+			
🍫 Settings		The IP Address or IPv4 CIDR Block of the Generic RADIUS. Fo	r example 192.1	68.0.1 or				
SETUP		192.168.0.0/16. Shared Secret						
🍫 Settings								
O Upgrade								
Version 4.0.0		The RADIUS shared secret.						
Version 4.0.0	Authentication Mode	O Direct O Iframe O Challenge O Challenge Intera	ctive					
	How the LoginTCThe user will be prompted on how they wish to proceed with second-factor authentication (e LoginTC Push, OTP, bypass code). Your RADIUS client must support RADIUS challenges to use this. Challenging the user will often result in a better user experience.							
		Challenge Message						
	Press 1 to authenticate with the LoginTC app or enter an OTP or bypass code. The message that will appear to the user for the challenge. Note that the user must enter a LoginTC Push, or must enter an OTP or bypass code.							

The user will be prompted on how they wish to proceed with second-factor authentication (e.g. LoginTC Push, OTP, bypass code). Your RADIUS client must support RADIUS challenges to use this. Challenging the user will often result in a better user experience. See <u>User Experience</u> for more information.

Click **Test** to validate the values and then click **Save**.

ခါ Login <b>TC</b> Login	C RADIUS Connector J Support [+ Log out
GENERAL	Endpoints     + Create Endpoint
Endpoints	Endpoints are application and network boundaries where users authenticate
💒 User Directories	Endpoints are application and network boundaries where users authenticate
E Logs	Successfully created endpoint.
🕐 Status	
APPLIANCE	
🍫 Settings	Generic RADIUS Generic RADIUS (11.1.1.1) Generic RADIUS & Example Inc. Secure Access
SETUP	
🍫 Settings	
🚯 Upgrade	
Version 4.0.0	

### Testing

When you are ready to test your configuration, create a LoginTC user (if you haven't already done so). The username should match your existing user. Provision a token by following the steps:

- 1. In a new tab / window log into the LoginTC Admin Panel
- 2. Click **Domains**
- 3. Click on your domain
- 4. Click on Members

စာ Login <b>TC</b> ေနာ	mple Inc. Business		Docs	📞 Support	🌡 administra	ator@example.com
GENERAL	🚠 Domains / Exam	ole Inc. Secure Acce	ess	+ Create Mem	iber 🔮 Mer	nbers 🕏 Setting
A Dashboard						
💄 Users	Members					
Applications		Example Inc. See	cure Access has 88	member(s)		
Policies		+ Create Me	mber 🛛 😤 View M	embers		
📽 Groups						
Bypass Codes	Attributes					
Devices	Examp	le Inc. Secure Access does	n't have any domai	n attributes yet.	Learn more.	
Phones			ate Domain Attribut			
🖨 Hardware Tokens		TCIE		e		
User Logs	Latest Actions					
ETUP						
📥 Domains	Action	User Dev	vice/Phone Doma	in	Group	Date
& Administrators	APPROVE_REQUEST_TEST	john.doe IOS	-4f6aa853 Examp	ole Inc. Secure Ac	cess	4 seconds ago
Admin Logs	CREATE_REQUEST	john.doe IOS	-4f6aa853 Examp	ole Inc. Secure Ac	cess	15 seconds ago

5. Click **Issue Token** button beside your user:

စာ Login <b>TC</b> Exar	nple Inc. Business	🗐 Docs 🔍 S	upport 🏾 🌡 administrator@example.com 🕇
GENERAL	🚠 Domains / Example Inc. Secu	re Access / Members	+ Create Member Settings
🖀 Dashboard	Canta Ann Tiltan		Court I among a Court
🛔 Users	State Any - TFilter		Search keywords Q Search
Applications	🔁 Issue New Token 🗸 🖨 Revoke Token	Remove from Domain	
Policies	Perform bulk action on <b>0</b> selected users		
🚰 Groups	Username	State Activation (	Code Actions
Bypass Codes	john.doe	Inactive	+ Issue Token +
Devices	Johnade	mactive	
S Phones			
🖨 Hardware Tokens			
🗐 User Logs			
SETUP			
🊓 Domains			
administrators			
Admin Logs			

6. A 10-character alphanumeric activation code will appear beside the user:

ခါ Login <b>TC</b> Exam	ple Inc. Business	🗐 Docs 🔍 Suppo	rt 🏼 🌡 administrator@example.com 🗸
GENERAL	🚠 Domains / Example Inc. S	Secure Access / Members	+ Create Member Settings
🕷 Dashboard			
👗 Users	State Any - TFilter		Search keywords Q Search
Applications	O Issue New Token ▼	en 🛛 🛽 Remove from Domain	
Policies	Perform bulk action on 0 selected users		
🖀 Groups	Username	State Activation Code	Actions
Bypass Codes	john.doe	Pending HURRMUGUVH	* Revoke Token
Devices	Johndoe		
📞 Phones			
🖨 Hardware Tokens			
User Logs			
SETUP			
📥 Domains			
administrators			
Admin Logs			

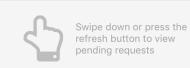
7. Open the LoginTC mobile app.

8. Enter the 10-character alphanumeric activation code:

No SIN	1 🗟		2	:28 PI	М		٩	* 💷
Cano	cel		Ado	d Tol	ken			Next
Step 1 of 3: Enter Activation Code								
	HURRMUGUVH							
is pro	The 10-character alphanumeric activation code is supplied by your LoginTC-enabled service provider. If you don't already have an activation code, ask your administrator to issue you one.							
Q	N E	E	2	Γ	<u>ر</u> ا	J		Ρ
Α	S	D	F	G	Η	J	К	L
	Ζ	X	С	V	В	Ν	Μ	$\langle \times \rangle$
123		Ŷ		spa	ice		N	ext

9. Load the token to complete the process





When you have loaded a token for your new user and domain, navigate to your appliance **web interface** URL:

ခာ Login <b>TC</b> LoginTC	RADIUS Connector		J Support	〔→ Log out
GENERAL	CENTRAL Endpoints / Generic RA	DIUS	Test Endpoint	Delete
♥ Endpoints ★ User Directories	Read the Generic RADIUS Docu	mentation to integrate your Generic RADIUS application with Login	rc.	
Logs Status	Endpoint			
APPLIANCE	Endpoint Name	Generic RADIUS		
♥ Settings		Edit		
SETUP	LoginTC Application			
O Upgrade	Application Name	Generic RADIUS 💛 arrays		
Version 4.0.0	Application ID	3682ec813e2fd280032ad0cf57ec140923405391		
	Domain	Example Inc. Secure Access 🛛 🖗		
	Request Timeout	<ul><li>60</li><li>• Yes, send IP Address of the originating request when available</li></ul>		
	IP Address	○ No, do not send IP Address of originating request		
		Edit		

Click Test Configuration:

ک Login <b>TC</b>	LoginTC RADIUS Connector	Suppol	rt (+	Log out
GENERAL	Test Endpoint	X	oint	Delete
C Endpoints	Test actual simulated request for the Endpoint. All LoginTC authentication is identical to what a user would receive a live authentication scenario. Passthrough configuration also applies.	in		
💒 User Directories	Username			
E Logs				
🕐 Status	Password			
APPLIANCE				
🏘 Settings				
SETUP	Close Test Endpoi	nt		
✿ Settings	LoginTC Application			
Opgrade	Application Name Generic RADIUS 👽 🚟			
Version 4.0.0	Application ID         3682ec813e2fd280032ad0cf57ec140923405391			
	Domain Example Inc. Secure Access			
	Request Timeout 60			
	Yes, send IP Address of the originating request when available     No, do not send IP Address of originating request			
	Edit			

Enter a valid username and password; if there is no password leave it blank. A simulated authentication request will be sent to the mobile or desktop device with the user token loaded. Approve the request to continue:

ک Login <b>TC</b>	LoginTC RADIUS Connector	ort 🕞	Log out
GENERAL	Test Endpoint X	point	Delete
Endpoints			
💒 User Directories			
E Logs	The test with john.doe APPROVED See logs		
🕐 Status			
APPLIANCE	Try Again Close		
🍫 Settings	Edit		
SETUP			
🍫 Settings	LoginTC Application		
Opgrade	Application Name Generic RADIUS 📢 📾		
Version 4.0.0			
	Application ID         3682ec813e2fd280032ad0cf57ec140923405391		

Congratulations! Your appliance can successfully broker first and second factor authentication. The only remaining step is to configure your RADIUS device!

Login <b>TC</b>	LoginTC RADIUS Connector	t
GENERAL	Test Endpoint × point Delete	
Endpoints	×	
😤 User Directories		J
E Logs	The test with john.doe FAILED See logs	
😵 Status		
APPLIANCE	Try Again Close	
🍫 Settings	Edit	
SETUP		
🍫 Settings	LoginTC Application	
O Upgrade	Application Name Generic RADIUS 👽 🚟	
Version 4.0.0	Application ID 3682ec813e2fd280032ad0cf57ec140923405391	

If there was an error during testing, the following will appear:

In this case, click **See logs** (or click the **Logs** section):

ခါ Login <b>TC</b> LoginT	CRADIUS Connector Support 🗘 Log ou	Jt
GENERAL	E Logs	
Endpoints		
💒 User Directories	authentication.log ~ Ownload 2 Refresh	
🚍 Logs	2023-06-23T18:35:52.014Z [73e3aa80] INFO Simulating a RADIUS request for user john.doe for endpoint	
🕐 Status	Generic RADIUS 2023-06-23718:35:52.020Z [73e3aa80] INFO Processing authentication for user john.doe in iframe	
APPLIANCE	authentication mode 2023-06-23T18:35:52.026Z [73e3aa80] DEBUG Not performing password authentication	
🍫 Settings	2023-06-23T18:35:52.027Z [73e3aa80] DEBUG Starting iframe authentication 2023-06-23T18:35:52.167Z [73e3aa80] INFO Challenging user john.doe	
SETUP	2023-06-23T18:36:29.894Z [cb7036a0] INFO Simulating a RADIUS request for user john.doe for endpoint Generic RADIUS 2023-06-23T18:36:29.895Z [cb7036a0] INFO Processing authentication for user john.doe in challenge	
🍫 p Settings	interactive authentication mode 2023-06-23T18:36:29.898Z [cb7036a0] DEBUG Not performing password authentication 2023-06-23T18:36:30.034Z [cb7036a0] INFO Challenging user john.doe with primary challenge	
Opgrade	2023-00-23110:30:30:00-0342 [CD/05030] INFO Chartenging user joint.doe with primary chartenge 2023-06-23118:36:49.355Z [b17b1ac8] INFO Simulating a RADIUS request for user john.doe for endpoint Generic RADIUS	
Version 4.0.0	2023-06-23T18:36:49.356Z [b17b1ac8] INFO Processing authentication for user john.doe in iframe authentication mode	
	2023-06-23T18:36:49.357Z [b17b1ac8] DEBUG Not performing password authentication 2023-06-23T18:36:49.357Z [b17b1ac8] DEBUG Starting iframe authentication	
	2023-06-23T18:36:49.511Z [b17b1ac8] INFO Challenging user john.doe 2023-06-23T18:37:00.687Z [ab4d8546] INFO Simulating a RADIUS request for user john.doe for endpoint	
	Generic RADIUS 2023-06-23T18:37:00.687Z [ab4d8546] INFO Processing authentication for user john.doe in iframe	

### WatchGuard – Quick Config Guide

Once you are satisfied with your setup, configure your WatchGuard to use the LoginTC RADIUS Connector.

For your reference, the appliance web in	nterface Settings	page displays	the appliance IP
address and RADIUS ports:			

		🧈 Support 🕻 🗘 Log out
GENERAL	🍫 Settings	
Endpoints User Directories	RADIUS Details	
E Logs	IP Address	172.20.221.85
🕐 Status	RADIUS Authentication	1812
APPLIANCE	Port	
✿ <b>p</b> Settings	NTP Server	
SETUP		
🍫 Settings	Enabled	Ves O No
🕜 Upgrade		NTP is not enabled.
Version 4.0.0		Edit

The following are quick steps to get VPN access protected with LoginTC. The instructions can be used for existing setups as well. Although these were performed on WatchGuard Fireware XTM Web UI, the same is true for other devices in the XTM series.

#### Mobile VPN with IPsec

1. Log in to your WatchGuard (Fireware XTM Web UI)

WatchGuard Firewa	re XTM Web Ul
	Username admin Password
	Log in

## 2. Click Authentication:

DASHBOARD Front Panel Subscription Services	Front Panel				C
FireWatch Interfaces	Top Clients				System
Traffic Monitor Gateway Wireless Controller	Name	Rate 😓	Bytes	Hits	Name XTMv
SYSTEM STATUS	10.0.1.5	150 Kbps	341 КВ 🔛	17	Model XTMv
NETWORK	10.0.10.178	13 Kbps	1 KB	1	Version 11.8.B432340 Serial Number V1C5000000000
FIREWALL SUBSCRIPTION SERVICES	Top Destination	S			System Time 12:48 US/Eastern System Date 2013-12-13
AUTHENTICATION	Name	Rate 🌲	Bytes	Hits	Uptime 0 days 00:14
VPN	23.60.247.88	109 Kbps	142 КВ 🔛	6	Log Server Disabled
SYSTEM	173.194.43.111	19 Kbps 🚪	113 КВ 📕	1	Reboot
	10.0.10.183	13 Kbps	1 KB	1	
	23.61.177.207	7 Kbps	9 КВ	1	
	184.150.152.18	6 Kbps	52 KB	2	Last 20 Minutes \$
	63.140.54.90	3 Kbps	ЗКВ	1	External Bandwidth

3. Under Authentication click Servers:

WatchGuard Firewar	e XTM Web UI				User: admin   Help   Logout
DASHBOARD Front Panel Subscription Services FireWatch	Front Panel				C
Interfaces	Top Clients				System
Traffic Monitor Gateway Wireless Controller	Name	Rate 😓	Bytes	Hits	Name XTMv
SYSTEM STATUS	10.0.10.178	13 Kbps	1 KB	1	Model XTMv
NETWORK	10.0.1.5	4 Kbps	58 КВ	3 📕	Version 11.8.8432340 Serial Number V1C5000000000
FIREWALL		1			System Time 12:50 US/Eastern
SUBSCRIPTION SERVICES	Top Destination	S			System Date 2013-12-13
AUTHENTICATION	Name	Rate 🜩	Bytes	Hits	Uptime 0 days 00:16
Hotspot Servers	10.0.10.183	13 Kbps	1 KB	1	Log Server Disabled
Settings	184.150.152.18	2 Kbps 🗧	48 КВ	1	Reboot
Users and Groups Web Server Certificate	66.196.113.5	1 Kbps	4 КВ	1	
Single Sign-On	173.192.82.194	208 bps	6 КВ	1	Last 00 Minutes
Terminal Services					Last 20 Minutes \$
VPN	Top Policies				External Bandwidth
SYSTEM	Name	Rate 🚖	Bytes	Hits	External pandwidth

4. Under Authentication Servers click RADIUS:

	ware XTM Web UI		User: admin   Help   Logout
DASHBOARD SYSTEM STATUS NETWORK	Servers		
FIREWALL SUBSCRIPTION SERVICES	Authentication Servers Server	Status	
AUTHENTICATION Hotspot	Firebox	0 Users	0 Groups
Servers Settings	RADIUS	Primary	Disabled
Users and Groups Web Server Certificate	w.	Secondary	Disabled
Single Sign-On Terminal Services VPN SYSTEM	SecurID	Primary	Disabled
		Secondary	Disabled
	LDAP	Primary	Disabled
		Secondary	Disabled
	Active Directory	0 domains	

5. Under Primary Server Settings click Enable RADIUS Server:

WatchGuard Firewa	are XTM Web UI		User: admin   Help   Logout
DASHBOARD SYSTEM STATUS NETWORK	Servers / RADIUS		
NETWORK FIREWALL SUBSCRIPTION SERVICES	Before you configure your XTM de successfully accept and process f Primary Server Settings		on server, make sure the server can
AUTHENTICATION Hotspot Servers Settings	Enable RADIUS Server		
Users and Groups Web Server Certificate Single Sign-On Terminal Services	Port	1812	٢
VPN SYSTEM	Passphrase Confirm		
	Timeout	5	(t) seconds
	Retries	3	٢

### 6. Complete **Primary Server Settings** form:

FIREWALL SUBSCRIPTION SERVICES AUTHENTICATION Hotspot	successfully accept and process F Primary Server Settings Server Settings	RADIUS authentication requests.	
Servers Settings Users and Groups	IP Address	10.0.10.130	
Web Server Certificate Single Sign-On Terminal Services	Port	1812	١
VPN SYSTEM	Passphrase		
	Confirm		
	Timeout	60	e seconds
	Retries Group Attribute	1	•
	Group Attribute	10 (‡) Minutes (\$	٢
	Secondary Server Settings		

Property	Explanation	Example
IP Address	Address of LoginTC RADIUS Connector	10.0.10.130
Port	RADIUS authentication port. Must be 1812.	1812
Passphrase	The secret shared between the LoginTC RADIUS Connector and its client	bigsecret
Confirm	The secret shared between the LoginTC RADIUS Connector and its client	bigsecret
Timeout	Amount of time in seconds to wait. At least 90s.	90
Retries	Amount of times to retry authentication. Must be 1.	1
Group Attribute	RADIUS Attribute to be populated with user group info. Must be 11 when using SSL.	11
Dead Time	Amount of time an unresponsive RADIUS server is marked as inactive	0

### Group Attribute and Access Control

WatchGuard devices can use the **Group Attribute** value to set the attribute that carries the User Group information. This information is used for access control by certain VPN protocols.

If you are using multiple VPN protocols (such as SSL) then you may need to set the value to match their requirements.

7. Click VPN:

WatchGuard Firew	vare XTM Web UI		User: admin   Help   Logout
DASHBOARD SYSTEM STATUS NETWORK FIREWALL	Servers Authentication Servers		
SUBSCRIPTION SERVICES	Server	Status	
AUTHENTICATION Hotspot	Firebox	0 Users	0 Groups
Servers Settings	RADIUS	Primary	10.0.10.130
Users and Groups Web Server Certificate		Secondary	Disabled
Single Sign-On Terminal Services	SecurID	Primary	Disabled
SYSTEM		Secondary	Disabled
	LDAP	Primary	Disabled
		Secondary	Disabled
	Active Directory	0 domains	

8. Under VPN click Mobile VPN with IPsec

	ware XTM Web UI		User: admin   Help   Logout
DASHBOARD SYSTEM STATUS	Servers		
NETWORK	Authentication Servers		
SUBSCRIPTION SERVICES	Server	Status	
AUTHENTICATION VPN	Firebox	0 Users	2 Groups
Branch Office VPN BOVPN Virtual Interfaces	RADIUS	Primary	10.0.10.83
Phase2 Proposals <u>Mobile VPN with IPSec</u> Mobile VPN with PPTP Mobile VPN with SSL Mobile VPN with L2TP Global Settings SYSTEM		Secondary	Disabled
	SecurID	Primary	Disabled
		Secondary	Disabled
	LDAP	Primary	Disabled
		Secondary	Disabled

9. Click **Add** to create a new group. Note that the name of the group does not have to match any of the groups names in the LDAP Directory

DASHBOARD SYSTEM STATUS	Mobile VPN with IPSec
NETWORK FIREWALL	Groups
SUBSCRIPTION SERVICES	Name  Authentication Serv Allowed Access Virtual IP Pool IPSec Settings
AUTHENTICATION	Add Edit Remove
/PN Branch Office VPN BOVPN Virtual Interfaces Phase2 Proposals Mobile VPN with IPSec Mobile VPN with PPTP Mobile VPN with SSL Mobile VPN with L2TP Global Settings	Configuration File Generation To generate a mobile VPN client configuration file, select a mobile user group from the list above, then select a VPN client and click Generate. The Shrew Soft VPN client does not support all WatchGuard Mobile VPN with IPSec configuration settings. For a list of settings not supported by the Shrew Soft VPN client, click Help. Client WatchGuard Mobile VPN Client WatchGuard WatchGuard WatchGuard WatchGuard WatchGuard Wa

Make security policies read-only in the WatchGuard Mobile VPN client

10. In **General Settings**, complete the form and select **RADIUS** as the authentication server.

WatchGuard Firew	are XTM Web UI User: admin   Help   Logout
DASHBOARD SYSTEM STATUS	Mobile VPN with IPSec / Add
NETWORK FIREWALL	Name Office VPN
SUBSCRIPTION SERVICES AUTHENTICATION	General IPSec Tunnel Resources Advanced
VPN Branch Office VPN BOVPN Virtual Interfaces	General Settings
Phase2 Proposals Mobile VPN with IPSec	Authentication Server RADIUS
Mobile VPN with PPTP Mobile VPN with SSL Mobile VPN with L2TP Global Settings SYSTEM	Passphrase Passphrase Confirm
	Firebox IP Addresses

Property	Explanation	Example
Name	A unique name for this group configuration. This name must match exactly the LDAP / AD group name configured in First Factor authentication Group Attribute (advanced).	Office VPN
Authentication Server	The type of device that users of this group will be authenticated with.	Radius
Passphrase	The secret shared between the Mobile VPN client and the RADIUS server. The secret must be provided to all IPsec users.	sharedsecret
Confirm	The secret shared between the Mobile VPN client and the RADIUS server.	sharedsecret
Primary	Primary IP address or domain name Firebox users connect to.	10.0.10.130
Backup (optional)	Secondary IP address or domain name Firebox users connect to.	10.0.10.131

# Mobile VPN with IPSec group profile name

In order to use Mobile VPN with IPSec, the Mobile VPN with IPSec group profile name must match exactly the LDAP / AD group name configured in First Factor authentication Group Attribute (advanced).

11. Fill out the forms under the **IPsec Tunnel**, **Resources**, and **Advanced** tabs to match the settings of your client. For more information about IPsec client configurations, check the <u>WatchGuard Documentation</u>

WatchGuard Firew	are XTM Web UI	User: admin   Help   Logout
DASHBOARD SYSTEM STATUS	Mobile VPN with IPSec / Add	
NETWORK	Name Office VPN	
SUBSCRIPTION SERVICES	General IPSec Tunnel Resources Advanced	
VPN Branch Office VPN BOVPN Virtual Interfaces Phase2 Proposals	General Settings	
Mobile VPN with IPSec Mobile VPN with PPTP Mobile VPN with SSL	Passphrase	
Mobile VPN with L2TP Global Settings SYSTEM	Passphrase	
STOTEM	Confirm	

### 12. Click Save

#### Timeouts

If the session and idle timeouts are configured on your authentication server, they will take precedence over these settings

Session Timeout	480	minutes
Idle Timeout	30	minutes
Save Cancel		

You are now ready to test your configuration.

To test IPsec connections, use an IPsec VPN client such as the WatchGuard Mobile Application.

#### **User Management**

There are several options for managing your users within LoginTC:

- Individual users can be added manually in LoginTC Admin Panel
- Bulk operations using <u>CSV Import</u>

- Programmatically manage user lifecycle with the <u>REST API</u>
- One-way user synchronization of users to LoginTC Admin is performed using <u>User</u> <u>Sync Tool</u>.

### Failover

WatchGuard devices have built-in settings that make it easy to configure a secondary RADIUS server to provide failover.

After three authentication attempts fail, Fireware XTM uses the secondary RADIUS server for the next authentication attempt. If the secondary server also fails to respond after three authentication attempts, Fireware XTM waits for the **Dead Time** interval (10 minutes by default) to elapse. After the Dead Time interval has elapsed, Fireware XTM tries to use the primary RADIUS server again.

— <u>WatchGuard System Manager Help</u>

To set up another RADIUS server, deploy the downloaded LoginTC Connector again (you can deploy it multiple times) and configure it using the same settings as the first one. <u>Click here</u> to review the Connector configuration process. Afterwards, login to your **WatchGuard Web UI** and make the following changes:

WatchGuard Firew	are XTM Web	UI			User: admir	n   Help   Logout
DASHBOARD SYSTEM STATUS NETWORK	Front Panel					M <sup>2</sup>
FIREWALL	Top Clients				System	
SUBSCRIPTION SERVICES	Name	Rate 🔶	Bytes	Hits	Name	XTM_2_Series-W
	10.0.88.100	531 Kbps	21 MB	21	Model	XTM26-W
VPN SYSTEM	10.0.88.104	211 Kbps 📒	9 МВ	14	Version Serial Number	11.9.5.B470931 70A70CDC3D640
STSTEM	10.0.88.102	29 Kbps	9 МВ	13	System Time	14:42 US/Eastern
	Top Destinatio	ns			System Date Uptime	2015-06-17 2 days 01:55

1. Select Authentication from the left-hand navigation bar

### 2. Click Servers

WatchGuard Firewa	are XTM Web U	I			User: admin	Help   Logout
DASHBOARD SYSTEM STATUS NETWORK	Front Panel					C
FIREWALL	Top Clients				System	
SUBSCRIPTION SERVICES	Name	Rate ≑	Bytes	Hits	Name	XTM_2_Series-W
AUTHENTICATION Hotspot	10.0.88.100	151 Kbps	3 MB	22	Model	XTM26-W 11.9.5.B470931
Servers Settings	10.0.88.104	105 Kbps 🔜	8 MB	118	Serial Number	70A70CDC3D640
Setters and Groups	10.0.88.102	28 Kbps	9 MB	14	System Time	14:43 US/Eastern
Web Server Certificate Single Sign-On	Top Destination	\$			System Date Uptime	2015-06-17 2 days 01:56
Terminal Services Authentication Portal	Name	Rate 🔤	Bytes	Hits	Log Server	Disabled
VPN	184.150.152.14	126 Kbps 📒	2 MB	1	Reboot	
SYSTEM	74.125.29.101	20 Kbps	646 КВ	1		
	136.146.210.32	19 Kbps	177 КВ	2	Loot 20 Min	urton A
	184 150 152 18	18 Khos	137 KB		Last 20 Min	utes 🛊

### 3. Select **RADIUS**

WatchGuard Firev	vare XTM Web UI		User: admin   Help   Logout
DASHBOARD SYSTEM STATUS NETWORK	Servers Authentication Servers		
FIREWALL SUBSCRIPTION SERVICES AUTHENTICATION	Server	Status	
Hotspot Servers Settings	Firebox RADIUS	0 Users Primary	2 Groups 10.0.10.83
Users and Groups Web Server Certificate Single Sign-On Terminal Services	SecurID	Secondary Primary	Disabled
Authentication Portal VPN		Secondary	Disabled
SYSTEM	LDAP	Primary Secondary	Disabled

## 4. Check the box to Enable Secondary RADIUS Server

Dead Time	24	Hours	\$
Secondary Server Settings			
Call Enable Secondary RADIUS	Server		
IP Address			
Port	1812		]
Passphrase			 ]
Confirm			]
Timeout	5		seconds
Retries	3		]

5. Complete the Secondary Server Settings Form using the same settings as the primary one

Secondary Server Settings		
Enable Secondary RADIUS S	erver	
IP Address	10.0.10.131	
Port	1812	)
Passphrase		]
Confirm		)
Timeout	120	seconds
Retries	1	]
Group Attribute	11	
Dead Time	10 Minutes \$	
Save		

Property	Explanation	Example
IP Address	Address of Secondary LoginTC RADIUS Connector	10.0.10.131
Port	RADIUS authentication port. Must be 1812.	1812
Passphrase	The secret shared between the LoginTC RADIUS Connector and its client	newsecret
Confirm	The secret shared between the LoginTC RADIUS Connector and its client	newsecret
Timeout	Amount of time in seconds to wait. Must be at least 10 seconds longer than the LoginTC Request Timeout.	70
Retries	Amount of times to retry authentication. Must be 1.	1
Group Attribute	RADIUS Attribute to be populated with user group info. Must be 11.	11
Dead Time	Amount of time an unresponsive RADIUS server is marked as inactive before the WatchGuard device attempts to connect to it again	10

### 6. Click Save

Retries	1
Group Attribute	11
Dead Time	10 Minutes \$
Save	

## Logging

Logs can be found on the **Logs** tab:

ခာ Login <b>TC</b> ၊၀gin	aTC RADIUS Connector J Support C+ Log
GENERAL	E Logs
Endpoints	
🚢 User Directories	authentication.log ~ Oownload 2 Refresh
🚍 Logs	2023-06-23T18:35:52.014Z [73e3aa80] INFO Simulating a RADIUS request for user john.doe for endpoint
🕐 Status	Generic RADIUS 2023-06-23T18:35:52.020Z [73e3aa80] INFO Processing authentication for user john.doe in iframe
APPLIANCE	authentication mode 2023-06-23T18:35:52.026Z [73e3aa80] DEBUG Not performing password authentication
🍫 Settings	2023-06-23T18:35:52.027Z [73e3aa80] DEBUG Starting iframe authentication 2023-06-23T18:35:52.167Z [73e3aa80] INFO Challenging user john.doe 2023-06-23T18:36:29.894Z [cb7036a0] INFO Simulating a RADIUS request for user john.doe for endpoint
ETUP	Generic RADIUS 2023-06-23T18:36:29.895Z [cb7036a0] INFO Processing authentication for user john.doe in challenge interactive authentication mode
🍫 Settings	2023-06-23T18:36:29.898Z [cb7036a0] DEBUG Not performing password authentication
O Upgrade	2023-06-23T18:36:30.034Z [cb7036a0] INFO Challenging user john.doe with primary challenge 2023-06-23T18:36:49.355Z [b17b1ac8] INFO Simulating a RADIUS request for user john.doe for endpoint
/ersion 4.0.0	Generic RADIUS 2023-06-23T18:36:49.356Z [b17b1ac8] INFO Processing authentication for user john.doe in iframe authentication mode
	2023-06-23T18:36:49.357Z [b17b1ac8] DEBUG Not performing password authentication
	2023-06-23T18:36:49.357Z [b17b1ac8] DEBUG Starting iframe authentication
	2023-06-23T18:36:49.511Z [b17b1ac8] INFO Challenging user john.doe 2023-06-23T18:37:00.687Z [ab4d8546] INFO Simulating a RADIUS request for user john.doe for endpoint Generic RADIUS
	2023-06-23T18:37:00.687Z [ab4d8546] INFO Processing authentication for user john.doe in iframe

### Troubleshooting

### User Receives Multiple LoginTC Requests

See the Knowledge Base articles:

#### Authentication times out

See the Knowledge Base articles:

#### **No Network Connection**

1. First ensure that your LoginTC RADIUS Connector is configured to have a virtual network adapter on eth0

- 2. Ensure that the virtual network adapter MAC address matches the one in the file /etc/sysconfig/network-scripts/ifcfg-eth0
- 3. Restart the networking service:

service network restart

4. If you notice the error that etho is not enabled, then check driver messages for more information:

dmesg | grep eth

5. It's possible that the virtualization software renamed the network adapter to eth1. If this is the case, rename /etc/sysconfig/network-scripts/ifcfg-eth0 to ifcfg-eth1.

```
mv /etc/sysconfig/network-scripts/ifcfg-eth0 /etc/sysconfig/network-
scripts/ifcfg-eth1
```

Open the file and update the DEVICE="eth0" line to DEVICE="eth1"

#### **Not Authenticating**

If you are unable to authenticate, navigate to your appliance **web interface** URL and click **Status**:

SLOgin <b>TC</b> LoginTC	CRADIUS Connector	🤳 Support 🛛 🕞 Log out
GENERAL	🛿 Status	
Endpoints User Directories	All status checks have passed	
<ul><li>Logs</li><li>Status</li></ul>	Connectivity to cloud.logintc.com	Passed
APPLIANCE	CPU Usage	Passed
🏘 Settings		
SETUP	RAM Usage	Passed
🎭 Settings	Disk Space	Passed
O Upgrade		
Version 4.0.0		

Ensure that all the status checks pass. For additional troubleshooting, click Logs:

ခာ Login <b>TC</b> ၊ogi	nTC RADIUS Connector J Support 🗘 Log out
GENERAL	E Logs
Endpoints	
💒 User Directories	authentication.log ~ Obwnload 2 Refresh
🚍 Logs	2023-06-23T18:35:52.014Z [73e3aa80] INFO Simulating a RADIUS request for user john.doe for endpoint
🕐 Status	Generic RADIUS 2023-06-23T18:35:52.020Z [73e3aa80] INFO Processing authentication for user john.doe in iframe
APPLIANCE	authentication mode 2023-06-23118:35:52.026Z [73e3aa80] DEBUG Not performing password authentication
🍫 Settings	2023-06-23T18:35:52.027Z [73e3aa80] DEBUG Starting iframe authentication 2023-06-23T18:35:52.167Z [73e3aa80] INFO Challenging user john.doe 2023-06-23T18:36:29.894Z [cb7036a0] INFO Simulating a RADIUS request for user john.doe for endpoint
SETUP	Generic RADIUS 2023-06-23T18:36:29.895Z [cb7036a0] INFO Processing authentication for user john.doe in challenge interactive authentication mode
🍫 Settings	2023-06-23T18:36:29.898Z [cb7036a0] DEBUG Not performing password authentication
Upgrade	2023-06-23T18:36:30.034Z [cb7036a0] INFO Challenging user john.doe with primary challenge 2023-06-23T18:36:49.355Z [b17b1ac8] INFO Simulating a RADIUS request for user john.doe for endpoint Generic RADIUS
Version 4.0.0	2023-06-23T18:36:49.356Z [b17b1ac8] INFO Processing authentication for user john.doe in iframe authentication mode
	2023-06-23T18:36:49.357Z [b17b1ac8] DEBUG Not performing password authentication
	2023-06-23T18:36:49.357Z [b17b1ac8] DEBUG Starting iframe authentication 2023-06-23T18:36:49.511Z [b17b1ac8] INFO Challenging user john.doe
	2023-06-23118:37:00.687Z [ab4d8546] INFO Chattenging user john.doe 2023-06-23T18:37:00.687Z [ab4d8546] INFO Simulating a RADIUS request for user john.doe for endpoint Generic RADIUS
	2023-06-23T18:37:00.687Z [ab4d8546] INFO Processing authentication for user john.doe in iframe

Unsuccessful authentication may be caused by premature timeouts

If you have activated Mobile VPN with SSL, check that your <u>Group Attributes</u> are configured correctly.

### **Email Support**

For any additional help please email support@cyphercor.com. Expect a speedy reply.

### Incorrect Group Settings

If you are using a Mobile VPN protocol such as SSL and are unable to authenticate, check that your Group Attributes are configured correctly. Navigate to your **WatchGuard Web UI** and click **Dashboard** in the left-hand navigation bar:

WatchGuard Firew	are XTM Web	UI			User: admir	n   Help   Logout
DASHBOARD 🖑 🕅 SYSTEM STATUS NETWORK	Front Panel					C
FIREWALL	Top Clients				System	
SUBSCRIPTION SERVICES	Name	Rate 😓	Bytes	Hits	Name	XTM_2_Series-W
AUTHENTICATION	10.0.88.104	166 Kbps	11 MB	64	Model	XTM26-W
/PN	10.0.88.100	107 Kbps	720 KB	37	Version	11.9.5.B470931
SYSTEM	10.0.88.102	73 Kbps	9 MB	17	Serial Number System Time	70A70CDC3D640 14:52 US/Eastern
					System Date	2015-06-17
	Top Destination	ons			Uptime	2 days 02:05
					Log Server	Disabled

### Click on Traffic Monitor:

WatchGuard Firewa	are XTM Web L	II			User: admir	n   Help   Logo
DASHBOARD Front Panel Subscription Services	Front Panel					C
FireWatch Interfaces	Top Clients				System	
Traffic Monitor Gatew Wireless Controller	Name	Rate ≑	Bytes	Hits	Name	XTM_2_Series-W
SYSTEM STATUS	10.0.88.104	138 Kbps	11 MB	57	Model	XTM26-W
NETWORK	10.0.88.100	61 Kbps 📒	873 KB	36	Version Serial Number	11.9.5.B470931 70A70CDC3D640
FIREWALL	10.0.88.102	35 Kbps	10 MB	14	System Time	14:53 US/Eastern
SUBSCRIPTION SERVICES					System Date	2015-06-17
AUTHENTICATION	Top Destination	S			Uptime	2 days 02:06
VPN	Name	Rate 🜩	Bytes	Hits	Log Server	Disabled
SYSTEM	184.150.152.15	65 Kbps 📒	1 MB	3	Reboot	
	74.125.22.139	53 Kbps 📒	2 MB	1		
	10.0.10.164	14 Kbps	11 MB	2		

Select **Diagnostic** from the table header options:

WatchGuard Firew	vare XTM Web UI	User: admin   Help   Logout
DASHBOARD		
Front Panel	Traffic Monitor	
Subscription Services		
FireWatch		
Interfaces	📋 😤 🐱 👿 🗶 🔲 🚍	Q
Traffic Monitor	2015-06-17 15:03:23 sessiond sessiond: sessiond WGAPI call	
Gateway Wireless Controller	2015-06-17 15:03:23 sessiond sessiond: wgapi: rcved cmd=1 '/toSessio	nd/updateActivity' fromIPC=-612
SYSTEM STATUS	2015-06-17 15:03:23 sessiond sessiond: get into sess_prcs_status(): xp	ath=/toSessiond/updateActivity
IT WORK	2015-06-17 15:03:23 sessiond OK! sess update oK, sessId=28	
NETWORK	2015-06-17 15:03:26 Deny 10.0.10.176 10.0.10.255 netbios-ns/udp 137	
FIREWALL	2015-06-17 15:03:32 hostapd ath1: STA 7c:d1:c3:7b:ff:62 IEEE 802.11: 2015-06-17 15:03:32 hostapd ath1: STA 7c:d1:c3:7b:ff:62 IEEE 802.11:	
SUBSCRIPTION SERVICES	2015-06-17 15:03:32 hostapd ath1: STA 7c:d1:c3:7b:ff:62 WPA: pairwis	
		o noj nanaonano completea (ne
AUTHENTICATION	2015-06-17 15:03:37 Deny 10.0.88.100 255.255.255.255 17500/udp 17	500 17500 1-WG-Wireless-Acces
	2015-06-17 15:03:37 Deny 10.0.88.100 255.255.255.255 17500/udp 17 2015-06-17 15:03:39 Deny 10.0.20.30 10.0.10.1 dns/udp 58082 53 0-Ex	
VPN	2015-06-17 15:03:39 Deny 10.0.20.30 10.0.10.1 dns/udp 58082 53 0-Ex 2015-06-17 15:03:39 Deny 10.0.20.30 10.0.10.1 dns/udp 51650 53 0-Ex	kternal Firebox Denied 51 63 (Un kternal Firebox Denied 65 63 (Un
	2015-06-17 15:03:39 Deny 10.0.20.30 10.0.10.1 dns/udp 58082 53 0-Ex 2015-06-17 15:03:39 Deny 10.0.20.30 10.0.10.1 dns/udp 51650 53 0-Ex 2015-06-17 15:03:43 iked ******** RECV message on fd_server(7) ******	kternal Firebox Denied 51 63 (Un kternal Firebox Denied 65 63 (Un
	2015-06-17 15:03:39 Deny 10.0.20.30 10.0.10.1 dns/udp 58082 53 0-Ex 2015-06-17 15:03:39 Deny 10.0.20.30 10.0.10.1 dns/udp 51650 53 0-Ex 2015-06-17 15:03:43 iked ******** RECV message on fd_server(7) ****** 2015-06-17 15:03:43 iked recv CMD XPATH(/ping), need to process it	kternal Firebox Denied 51 63 (Un kternal Firebox Denied 65 63 (Un
VPN SYSTEM	2015-06-17 15:03:39 Deny 10.0.20.30 10.0.10.1 dns/udp 58082 53 0-Ex 2015-06-17 15:03:39 Deny 10.0.20.30 10.0.10.1 dns/udp 51650 53 0-Ex 2015-06-17 15:03:43 iked ******** RECV message on fd_server(7) ******	kternal Firebox Denied 51 63 (Un kternal Firebox Denied 65 63 (Un

If you can find the following error message then there is a problem with your Group Attribute settings:

2015-XX-XX 16:52:41 admd Authentication failed: user username@RADIUS isn't in the authorized SSLVPN group/user list!

#### Search for the following error message:

2015-XX-XX 16:59:52 admd RADIUS: no attribute-value pair is retrieved

from packet

If found, it means that the RADIUS Connector is not sending back any Group Attribute information. Navigate to your appliance **web interface** and click **Configurations**. Select the endpoint you're having problems with:

GENERAL       Image: Create Endpoints         Image: Create Directories       Endpoints are application and network boundaries where users authenticate         Image: Create Directories       Endpoints are application and network boundaries where users authenticate         Image: Create Directories       Endpoints are application and network boundaries where users authenticate         Image: Create Directories       Endpoints are application and network boundaries where users authenticate         Image: Create Directories       Endpoints are application and network boundaries where users authenticate         Image: Create Directories       Endpoints are application and network boundaries where users authenticate         Image: Create Directories       Endpoints are application and network boundaries where users authenticate         Image: Create Directories       Endpoints are application and network boundaries where users authenticate         Image: Create Directories       Endpoints are application and network boundaries where users authenticate         Image: Create Directories       Endpoints are application and network boundaries where users authenticate         Image: Create Directories       Endpoints         Image: Create Direc	ခါ Login <b>TC</b> LoginTC	C RADIUS Connector 2 S	upport	〔◆ Log out	
<ul> <li>Endpoints are application and network boundaries where users authenticate</li> <li>Logs</li> <li>Status</li> <li>Generic RADIUS (192.168.0.1)</li> </ul>	GENERAL	€ Endpoints	+ Creat	e Endpoint	
APPLIANCE * Settings SETUP * Settings © Upgrade Version 4.0.0	<ul> <li>Endpoints</li> <li>User Directories</li> <li>Logs</li> <li>Status</li> <li>APPLIANCE</li> <li>Settings</li> <li>SETUP</li> <li>Settings</li> <li>Upgrade</li> </ul>	Endpoints are application and network boundaries where users authenticate Generic Generic RADIUS (192.168.0.1)			

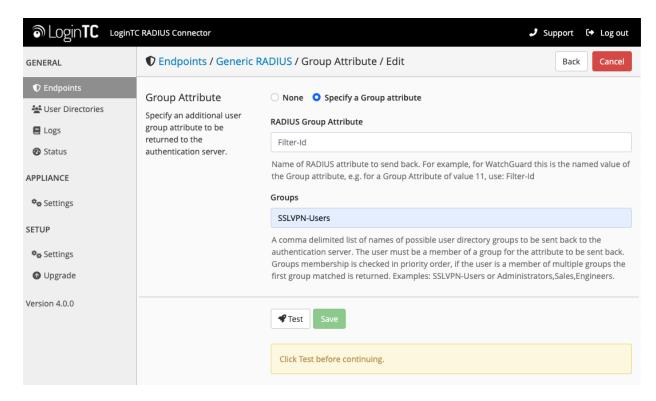
Scroll down to the User Directory section and next to Group Attribute click Edit:

LoginTC Login	TC RADIUS Connector		🤳 Support 🕞 Log out
GENERAL	<b>Endpoints</b> / Generic RA	DIUS	Test Endpoint Delete
Endpoints		C . Let en unseren i . Lineness et eußingenB redacss	
🐮 User Directories		Edit	
Logs			
🕐 Status	User Directory		
APPLIANCE			
🍫 Settings	User Directory	AD (172.20.100.10)	Edit
SETUP	Group Attribute	None O Specify a Group Attribute	Edit
🍫 Settings			
Opgrade	Challenge Strategy		
Version 4.0.0	Challenge Strategy	Challenge all users	Edit
	Client Settings		

1. If "None" is selected, change it to "Specify a group attribute". <u>Click here</u> to review how to configure the Group Attribute for SSL

SLOgin <b>TC</b> LoginTC	C RADIUS Connector		J Support 🕞 Log out
GENERAL	CENTRO Endpoints / Generic	RADIUS / Group Attribute / Edit	Back Cancel
<ul> <li>Endpoints</li> <li>User Directories</li> <li>Logs</li> <li>Status</li> </ul>	Group Attribute Specify an additional user group attribute to be returned to the authentication server.	• None O Specify a Group attribute Do not send additional Group Attribute information.	
APPLIANCE		Save	
SETUP			
🍫 Settings			
Opgrade			
Version 4.0.0			

2. Otherwise, check that your user is a member of the specified group in the LDAP Directory. If they are not, it will cause RADIUS to return a blank attribute.



If you find a log message similar to this:

2015-XX-XX 16:52:41 admd RADIUS: finished parsing attribute-value

2015-XX-XX 16:52:41 admd RADIUS: group 1, type=11 value=L2TP-Users 2015-XX-XX 16:52:41 admd RADIUS: retrieve VP:Filter-Id(11) int=10

Then the RADIUS server is sending back a Group Attribute, but it may not be the correct one.

Check that the **value** is the name of the group that has been added to list of groups authorized to authenticate with SSL. Log into the **WatchGuard Web UI** and select **VPN** from the left-hand navigation bar. Click on **Mobile VPN with SSL** :

WatchGuard Fire	ware XTM Web UI	out
DASHBOARD SYSTEM STATUS NETWORK	Traffic Monitor	
FIREWALL		۹
SUBSCRIPTION SERVICES AUTHENTICATION	2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)******** RECV an IKE packet at 10.0.10.8:500(so 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)ike_match_if_name: Match pcy [RandomR_mu] 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)ike_match_if_name: Match pcy [L2TP-IPSec_12]	dev
VPN Branch Office VPN BOVPN Virtual Interfaces Phase2 Proposals Mobile VPN with IPSec Mobile VPN with PPTP <u>Mobile VPN with SSL</u> Mobile VPN with L2TP Global Settings	2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)Found IKE Policy [RandomR_mu, dev=anyE] for 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)IkeNotifyPayloadNtoH : SPI Size 16 first4(0x95b 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)Process Notify Payload : NOTIFY-TYPE : 36136 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)Process ISAKMP Notify : from peer 0x0a000a8c 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)Received DPD R_U_THERE message from 10.0 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)Received DPD R_U_THERE message from 10.0 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)IkeInNotifyProcess: gateway is UP (peerIp=10.0 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)ike_p1_status_chg: ikePcyName=RandomR_mu 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)ikeMultiWanVpnFailBack:> 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)IkeNotifyPayloadHtoN : net order spi(0x95 0x55 2015-06-17 15:04:23 iked (10.0.10.8<->10.0.10.140)Received DPD R_U_THERE ACK message to 11	r pee 5255 c prof 0.10.1 0.10.1 u, sta e=Ra 0x25
SYSTEM	2015-06-17 15:04:43 iked ******** RECV message on fd_server(7) ******* 2015-06-17 15:04:43 iked recv CMD XPATH(/ping), need to process it	

### Click on the Authentication tab:

pairs

WatchGuard Firew	are XTM Web UI	admin   Help	Logout
DASHBOARD SYSTEM STATUS NETWORK FIREWALL SUBSCRIPTION SERVICES AUTHENTICATION	Mobile VPN with SSL When you activate Mobile VPN with SSL, the "SSLVPN-Users" group and the policy are created to allow Mobile VPN with SSL connections from the Internet Activate Mobile VPN with SSL		
VPN Branch Office VPN BOVPN Virtual Interfaces Phase2 Proposals Mobile VPN with IPSec Mobile VPN with PPTP Mobile VPN with SSL	General       Authentication       Advanced         Firebox IP Addresses or Domain Names       Firebox IP or domain name for SSL VPN users to connect to.         Primary       10.0.10.83		
Mobile VPN with L2TP Global Settings SYSTEM	Secondary Networking and IP address pool		

55/61

The bottom table contains the list of groups that are authorized to connect with SSL. If the group returned by the RADIUS server is not part of it, it must be added. Click the **Add** button:

Define users and groups to authenticate with Mobile VPN with SSL. The users and groups you define are automatically included in the "SSLVPN-Users" group.

 Name
 Type
 Authentication Server

 SSLVPN-Users
 Group
 Any

 Add
 Remove

Type in the group name and select **RADIUS** as the Authentication Server:

Mobile VPN with Global Settings	RADIUS (De	fault)			
SYSTEM	Add User or Grou	q		×	
	Туре	<ul> <li>Group</li> <li>User</li> </ul>			
	Name	GroupName		is you	u define are
	Authentication Server	RADIUS	¢	ion S	erver
			ОК	Cancel	

#### **Authentication Timing Out**

If authentication is failing, it is possible that the authentication requests are timing out too quickly. By default, LoginTC push requests will timeout after 90 seconds. Another timeout value is defined by the RADIUS server configuration. If it is set too low, it will cause requests to prematurely timeout. To check, login to your **WatchGuard Web UI** 

WatchGuard Firew	vare XTM Web	UI			User: admir	n   Help   Logout
DASHBOARD SYSTEM STATUS NETWORK	Front Panel					m
FIREWALL	Top Clients				System	
SUBSCRIPTION SERVICES	Name	Rate 😓	Bytes	Hits	Name	XTM_2_Series-W
	10.0.88.100	531 Kbps	21 MB	21	Model	XTM26-W
VPN	10.0.88.104	211 Kbps	9 МВ	141	Version Serial Number	11.9.5.B470931 70A70CDC3D640
SYSTEM	10.0.88.102	29 Kbps	9 МВ	13	System Time	14:42 US/Eastern
					System Date	2015-06-17
	Top Destination	ons			Uptime	2 days 01:55

1. Select Authentication from the left-hand navigation bar, then click Servers

WatchGuard Firewa	re XTM Web U	II			User: admir	n   Help   Logout
DASHBOARD SYSTEM STATUS NETWORK	Front Panel					C
FIREWALL	Top Clients				System	
SUBSCRIPTION SERVICES	Name	Rate 😓	Bytes	Hits	Name XTM_2	XTM_2_Series-W
AUTHENTICATION	10.0.88.100	151 Kbps	3 MB	22	Model	XTM26-W
Hotspot <u>Servers</u>	10.0.88.104	105 Kbps	8 MB	118	Version Serial Number	11.9.5.B470931 70A70CDC3D640
Settings Users and Groups	10.0.88.102	28 Kbps 🚪	9 МВ	14	System Time	14:43 US/Eastern
Web Server Certificate Single Sign-On	Top Destinations				System Date         2015-06-17           Uptime         2 days 01:56	
Terminal Services Authentication Portal	Name	Rate 🜩	Bytes	Hits	Log Server	Disabled
VPN	184.150.152.14	126 Kbps	2 MB	1	Reboot	
SYSTEM	74.125.29.101	20 Kbps	646 KB	1		
	136.146.210.32	19 Kbps	177 КВ	2		
	184.150.152.18	18 Kbps	137 KB	2	Last 20 Mir	nutes 💠

### 2. Click **RADIUS**

WatchGuard Firew	are XTM Web UI		User: admin   Help   Logout
DASHBOARD SYSTEM STATUS	Servers		
NETWORK	Authentication Servers		
SUBSCRIPTION SERVICES	Server	Status	
AUTHENTICATION Hotspot	Firebox	0 Users	2 Groups
Servers Settings	RADIUS	Primary	10.0.10.83
Users and Groups Web Server Certificate Single Sign-On Terminal Services Authentication Portal VPN	CD .	Secondary	Disabled
	SecurID	Primary	Disabled
		Secondary	Disabled
SYSTEM	LDAP	Primary	Disabled
		Secondary	Disabled

3. Check the **Timeout** attribute field. It should be at least 10 seconds longer than the LoginTC Request Timeout set in the LoginTC RAIDUS Connector.

WatchGuard Firew	are XTM Web UI		Use	r: admin   Heip   Logout
DASHBOARD SYSTEM STATUS	Servers / RADIUS			
NETWORK FIREWALL SUBSCRIPTION SERVICES		device to use a RADIUS authentication RADIUS authentication requests.	on ser	ver, make sure the server can
AUTHENTICATION Hotspot	Primary Server Settings  Enable RADIUS Server			
Servers Settings Users and Groups Web Server Certificate	IP Address Port	10.0.10.83		
Single Sign-On Terminal Services Authentication Portal	Passphrase			
VPN SYSTEM	Confirm			
	Timeout	120	-	seconds : 1-120 Default: 5
		(		

See the <u>Knowledge Base</u> articles for more information:

### **Email Support**

For any additional help please email support@cyphercor.com. Expect a speedy reply.

## Upgrading

### From 4.X

The latest LoginTC RADIUS Connector upgrade package can be downloaded here: <u>Download RADIUS Connector (Upgrade)</u>

1. Navigate to **SETUP > Upgrade**:

SLOgINTC LoginTC	C RADIUS Connector	🤳 Support	〔→ Log out
GENERAL	OUpgrade		O Upload
🕑 Endpoints 🚰 User Directories	Version		
🛢 Logs 😵 Status	Version 4.0.0		
APPLIANCE	Latest 4.0.1 (New version available) Release Notes 🗹		
🏘 Settings			
SETUP			
<ul> <li>♣ Settings</li> <li>⑦ Upgrade</li> </ul>			
Version 4.0.0			

2. Click **Upload** and select your LoginTC RADIUS Connector upgrade file:

SLOgin <b>TC</b> LoginTC	C RADIUS Connect	or J Support	(+	Log out	
GENERAL	OUpgrade	/ Upload		Cancel	]
Endpoints	Upgrade Packa	ge			
🚔 User Directories	Choose File	logintc-radius-connector-4.0.1-upgrade.bin			
<ul><li>Logs</li><li>Status</li></ul>	Upload				
APPLIANCE					
🍫 Settings					
SETUP					
🍫 Settings					
🔿 Upgrade					
Version 4.0.0					

3. Click **Upload** and do not navigate away from the page:

ခာ Login <b>TC</b> Login	TC RADIUS Connector J Support 🕻 + Log out
GENERAL	O Upgrade
<ul> <li>Endpoints</li> <li>User Directories</li> </ul>	Upload complete
<ul><li>Logs</li><li>Status</li></ul>	Version 4.0.1
APPLIANCE	Ready to install version 4.0.1. The installation will take between 5-10 minutes and the appliance will not be accessible during that time.
🍫 Settings	
SETUP	Cancel Install Now
♥✿ Settings	
🕤 Upgrade	
Version 4.0.0	

4. Once upload is complete upgrade by clicking **Install Now**:

ခာ Login <b>TC</b> မ	ginTC RADIUS Connector 🕹 Log c	out
GENERAL	O Upgrad V V	
Endpoints User Directories	Ready to install version 4.0.1. The installation will take between 5-10 Upload c	
Logs	Version Close Install Now	
🕐 Status		
APPLIANCE	Ready to install version 4.0.1. The installation will take between 5-10 minutes and the appliance will not be accessible during that time.	
🍫 Settings		
SETUP	Cancel Install Now	
🍫 Settings		
🕜 Upgrade		
Version 4.0.0		

5. Wait 10-15 minutes for upgrade to complete:



Please wait while your LoginTC RADIUS Connector appliance is upgraded to version 4.0.1

### NOTE: Upgrade time

Upgrade can take 10-15 minutes, please be patient.

### From 3.X

### Important: LoginTC RADIUS Connector 3.X End-of-life

The LoginTC RADIUS Connector 3.X virtual appliance is built with CentOS 7.9. CentOS 7.X is End of Lifetime (EOL) June 30th, 2024. See <u>CentOS Product Specifications</u>. Although the appliance will still function it will no longer receive updates and nor will it be officially supported.

### New LoginTC RADIUS Connector 4.X

A new LoginTC RADIUS Connector 4.X virtual appliance has been created. The Operating System will be supported for many years. Inline upgrade is not supported. As a result upgrade is deploying a new appliance. The appliance has been significantly revamped and although the underlying functionality is identical, it has many new features to take advantage of.

Complete 3.X to 4.X upgrade guide: LoginTC RADIUS Connector Upgrade Guide