# Two factor authentication for Cisco ASA IPSec VPN Alternative

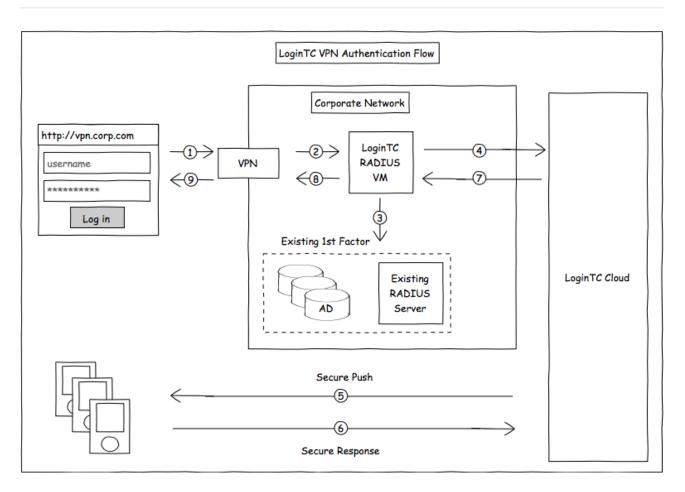
S logintc.com/docs/connectors/cisco-asa-ipsec-alt.html

The LoginTC RADIUS Connector is a complete two-factor authentication virtual machine packaged to run within your corporate network. The LoginTC RADIUS Connector enables Cisco ASA to use LoginTC for the most secure two-factor authentication. For an alternate method using Challenge Response then you may be interested in: <u>Two factor authentication for Cisco ASA IPSec VPN Alternative</u>.

#### **User Experience**

After entering the username and password into the IPSec client, an authentication request is sent to the user's mobile device using a push notification. The user simply needs to approve the request for second factor.

#### Architecture



### Compatibility

Cisco ASA appliance compatibility:

- Cisco ASA 5505
- Cisco ASA 5506-X Series
- Cisco ASA 5508-X
- Cisco ASA 5510-X
- Cisco ASA 5512-X
- Cisco ASA 5515-X
- Cisco ASA 5516-X
- Cisco ASA 5525-X
- Cisco ASA 5545-X
- Cisco ASA 5555-X
- Cisco ASA 5585-X Series
- Cisco appliance supporting RADIUS authentication

### Appliance not listed?

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

#### **Compatibility Guide**

Any other Cisco appliance which have configurable RADIUS authentication are supported.

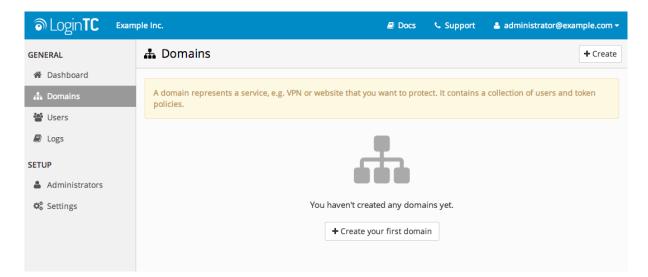
### Prerequisites

Before proceeding, please ensure you have the following:

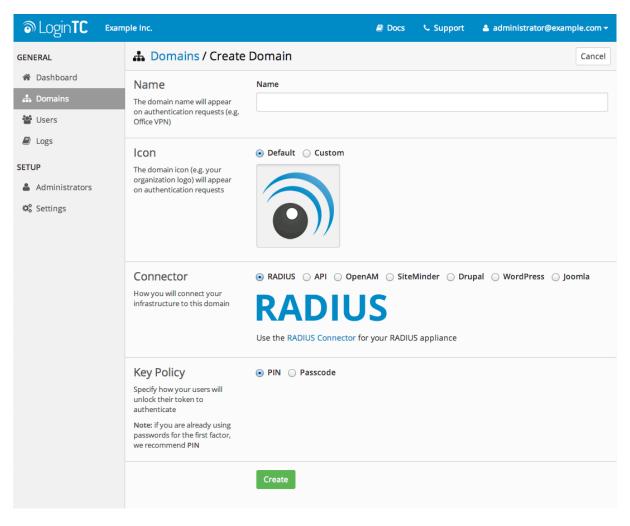
### **RADIUS Domain Creation**

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

- 1. Log in to LoginTC Admin
- 2. Click Domains:
- 3. Click Add Domain:



4. Enter domain information:



#### Name

Choose a name to identify your LoginTC Admin domain to you and your users

#### Connector

RADIUS

#### Installation

The LoginTC RADIUS Connector runs <u>CentOS</u> 6.8 with <u>SELinux</u>. A firewall runs with the following open ports:

Port	Protocol	Purpose
22	TCP	SSH access
1812	UDP	RADIUS authentication
1813	UDP	RADIUS accounting
8888	TCP	Web interface
443	TCP	Web interface
80	TCP	Web interface
80	TCP	Package updates (outgoing)
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 and will not be able to access the **web interface** unless it is changed.

The logintc-user has sudo privileges.

### Configuration

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

### 1. LoginTC

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

### 2. First Factor

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 (since there are 4-digit PIN and Passcode options that unlock the tokens to access your domains, LoginTC-only authentication this still provides two-factor authentication).

### 3. 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 and Encryption

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.

### Data Encryption

It is strongly recommended to enable encryption of all sensitive fields for both PCI compliance and as a general best practice.

The **web interface** makes setting up a configuration 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 Configuration**

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 configuration file by clicking + Create your first configuration:

	ector 2.1.0	Docs	Support	Iogintc-user -
GENERAL	urations	F	Restart RADIUS Se	rver + Create
Configurations Cogs Cogs Configurations Cogs Configurations Cogs Configurations Cogs Configurations Configurat	You haven't created any con + Create your first conf			

### LoginTC Settings

Configure which LoginTC organization and domain to use:

SLoginTC Lo	ginTC RADIUS Connector 2.4.0	🗐 Docs 💪 Support 📤 logintc-user 🗸
GENERAL	A Configurations /	New Configuration / LoginTC Settings     Step 1 of 4     Cancel
🚓 Configurations	LoginTC Settings	API Key
Logs	Values which will dictate how the LoginTC RADIUS	
APPLIANCE	Connector will identify itself to the LoginTC cloud service.	The 64-character organization API key is found on the LoginTC Admin Panel Settings page.
🚯 Status		Domain ID
🕸 Settings		The 40-character domain ID is found on the LoginTC Admin Panel domain settings page.
🗐 Upgrade		Request Timeout
		60
		The amount of time the LoginTC RADIUS Connector should poll for a user to respond. This 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.

#### Configuration values:

Property	Explanation
API Key	The 64-character organization API key
Domain ID	The 40-character domain ID
`Request Timeout	`Number of seconds that the RADIUS connector will wait for

The API key is found on the LoginTC Admin <u>Settings</u> page. The Domain ID is found on your domain settings page.

#### **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 Cisco ASA. 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 Cisco ASA.

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

ခါ Login <b>TC</b> Login	TC RADIUS Connector 2.1.0	🗐 Docs 🌜 Support 🚢 logintc-user 🗸
GENERAL	🚠 New Configuration	A / LoginTC Settings Step 1 of 4 Cancel
📥 Configurations	LoginTC Settings	API Key
Logs	Values which will dictate how	vZkDw7l6Z3tApwZJXERseKdR0s5RNNqjMxXlwvxpWwJOa9oJXi9b5tdvPyFsqzwJ
APPLIANCE	the LoginTC RADIUS Connector will identify itself to the LoginTC cloud service.	The 64-character organization API key is found on the LoginTC Admin Panel Settings page.
🚯 Status	Logini e cloud service.	Domain ID
🕸 Settings		9120580e94f134cb7c9f27cd1e43dbc82980e152
┛ Upgrade		The 40-character domain ID is found on the LoginTC Admin Panel domain settings page.
		Test Next
		Test successful, click Next to continue

### **First Authentication Factor**

Configure the first authentication factor to be used 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.

ခါ Login <b>TC</b> ၊ ဖ	nTC RADIUS Connector 2.1.0	🗐 Docs 🥾 Support 🛔 logintc-user 🗸
GENERAL	🚠 New Configuratio	n / First Factor Step 2 of 4 Cancel
🚠 Configurations	First Factor Select the first way users will	LDAP      Active Directory      RADIUS      None  Connect to an existing LDAP server for username / password verification.
APPLIANCE	authenticate prior to LoginTC.	
<ul><li>Status</li><li>Settings</li></ul>	LDAP Server Details The LDAP host and port information.	Host
🔊 Upgrade		Host name or IP address of the LDAP server. Examples: Idap.example.com or 192.168.1.42 Port (optional)
		389 Port if LDAP server uses non-standard port.
	Bind Details	Bind with credentials      Anonymous

#### Active Directory / LDAP Option

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

ခါ Login <b>TC</b> ဖ	zinTC RADIUS Connector 2.1.0	🖻 Docs 💪 Support 🔮 logintc-user 🗸
GENERAL	🚠 New Configuratio	on / First Factor Step 2 of 4 Cancel
Configurations Cogs	First Factor Select the first way users will authenticate prior to LoginTC.	○ LDAP
APPLIANCE Status Status Settings Upgrade	AD Server Details The Active Directory host and port information.	Host Host Host name or IP address of the LDAP server. Examples: ad.example.com or 192.168.1.42 Port (optional) 389 Port if Active Directory server uses non-standard port.
	Bind Details	● Bind with credentials ○ Anonymous

Configuration values:

Property	Explanation	Examples
host	Host or IP address of the LDAP server	ldap.example.com or 192.168.1.42
port (optional)	Port if LDAP server uses non-standard (i.e., 389 / 636 )	4000

Property	Explanation	Examples
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	<pre>dc=example,dc=com</pre>
attr_username	The attribute containing the user's username	sAMAccountName or uid
attr_name	The attribute containing the user's real name	displayName or cn
attr_email	The attribute containing the user's email address	mail or email
Group Attribute (optional)	Specify an additional user group attribute to be returned the authenticating server.	4000
RADIUS Group Attribute (optional)	Name of RADIUS attribute to send back	Filter-Id
LDAP Group (optional)	The name of the LDAP group to be sent back to the authenticating server.	SSLVPN-Users
encryption (optional)	Encryption mechanism	ssl or startTLS
cacert (optional)	CA certificate file (PEM format)	/opt/logintc/cacert.pem

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**:

ခာ Login <b>TC</b> ဖ	inTC RADIUS Connector 2.1.0	🗐 Docs 🕓 Support 🔺 logintc-user 🗸
GENERAL	📥 New Configuratio	n / First Factor Step 2 of 4 Cancel
Configurations Cogs APPLIANCE	First Factor Select the first way users will authenticate prior to LoginTC.	<ul> <li>□ LDAP ○ Active Directory ③ RADIUS ○ None</li> <li>Connect to an existing RADIUS server for username / password verification.</li> </ul>
<ul> <li>Status</li> <li>Settings</li> <li>Upgrade</li> </ul>	RADIUS Server Details The RADIUS host and secret.	Host Host name or IP address of the RADIUS server. Examples: Idap.example.com or 192.168.1.42 Port (optional) 1812 Port if the RADIUS server uses non-standard port. Secret

Configuration values:

Property	Explanation	Examples
host	Host or IP address of the RADIUS server	radius.example.com or 192.168.1.43
port (optional)	Port if the RADIUS server uses non-standard (i.e., 1812)	1812
secret	The secret shared between the RADIUS server and the LoginTC RADIUS Connector	testing123

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

Common Vendor-Specific Attributes (VSAs) found in the FreeRADIUS dictionary files will be relayed.

Click Test to validate the values and then click Next.

#### 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>.

#### No Passthrough (default)

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

ි Login <b>TC</b>	LoginTC RADIUS Connector 2.1.0	🔊 Docs 💪 Support 🔺 logintc-user 🗸
GENERAL	击 New Configuratio	on / Passthrough Step 3 of 4 Cancel
🛔 Configurations	Passthrough	● No Passthrough 🔵 Static List 🔵 LDAP Group 🔵 Active Directory Group
Logs	Configure list of users which will not be challenged by	All authentications will be challenged with LoginTC. This can be configured at anytime.
APPLIANCE	LoginTC.	
Status		Next
📽 Settings		
┛ Upgrade		

#### Static 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.

ခါ Login <b>TC</b> မတ္တ၊	TC RADIUS Connector 2.1.0	🗟 Docs 🥾 Support 🚢 logintc-user 🗸
GENERAL	🚠 New Configuratio	n / Passthrough Step 3 of 4 Cancel
📥 Configurations	Passthrough	🔘 No Passthrough 💿 Static List 🔘 LDAP Group 🔘 Active Directory Group
🖉 Logs	Configure list of users which will not be challenged by LoginTC.	Store static list of users that will be challenged with LoginTC. Good for small number of users.
APPLIANCE		
📽 Settings	Static List Only users in this list will be	LoginTC challenge users
┛ Upgrade	challenged with LoginTC. All other users will be challenged with configured first factor	
	only.	

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

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

#### Active Directory / LDAP Group

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.

ි Login <b>TC</b>	LoginTC RADIUS Connector 2.1.0	🗐 Docs 🌜 Support 🚢 logintc-user 🕶			
GENERAL	🛔 New Configuration	A / Passthrough Step 3 of 4 Cancel			
📥 Configurations	Passthrough	No Passthrough Static List LDAP Group Static Directory Group			
Logs	Configure list of users which will not be challenged by	Connect to an existing Active Directory server for group membership verification. Good for large			
APPLIANCE	LoginTC.	number of users.			
🚳 Status	Auth Groups	LoginTC challenge Auth Groups			
📽 Settings	Only users which are members of one or more of the specified				
🗐 Upgrade	groups will be challenged with LoginTC. All other users will be challenged with configured first factor only.	Comma separated list of groups membership for which users will be challenged with LoginTC. Example: logintc_users, operations			
	AD Server Details	Host			
	The Active Directory host and port information.				

#### Configuration values:

Property	Explanation	Examples	
LoginTC challenge auth groups	Comma separated list of groups for which users will be challenged with LoginTC	SSLVPN-Users or two- factor-users	
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=cor</pre>	
bind_password	The password for the above bind_dn account	password	
base_dn	The top-level DN that you wish to query from	<pre>dc=example,dc=com</pre>	
attr_username	The attribute containing the user's username	sAMAccountName or uid	
attr_name	The attribute containing the user's real name	displayName or cn	
attr_email	The attribute containing the user's email address	mail or email	
encryption (optional)	Encryption mechanism	ssl or startTLS	
cacert (optional)	CA certificate file (PEM format)	/opt/logintc/cacert.pem	

# Configuration Simplified

If <u>Active Directory / LDAP Option</u> was selected in <u>First Authentication Factor</u> the non-sensitive values will be pre-populated to avoid retyping and potential typos.

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

Configure RADIUS client	(e.g. your RADIUS	-speaking VPN):
<b>J</b>		

ခါ Login <b>TC</b> ၊ Login	TC RADIUS Connector 2.1.0	Docs 🤇	Support 🔒 logintc-user 🗸
GENERAL	击 New Configuratio	n / Client and Encryption	Step 4 of 4 Cancel
<ul> <li>Configurations</li> <li>Logs</li> <li>APPLIANCE</li> <li>Status</li> <li>Settings</li> </ul>	Client Settings Settings for your RADIUS client (e.g. a RADIUS-speaking VPN) to connect to the LoginTC RADIUS Connector.	Name A unique identifier of your RADIUS client. Use only alphanumeric of will also be used for the name of the configuration file. Example: of disk as corp-vpn-1.cfg. IP Address	
<b>₽</b> / Upgrade		The IP address of your RADIUS client. Secret The secret shared between your RADIUS client and the LoginTC RA	ADIUS Connector.
	Encryption Determine whether to store passwords and API keys encrypted or in the clear.	Encrypt all passwords and API keys It is strongly recommended to encrypt all sensitive fields.	

#### Client configuration values:

Property	Explanation	Examples
name	A unique identifier of your RADIUS client	CorporateVPN
ip	The IP address of your RADIUS client (e.g. your RADIUS-speaking VPN)	192.168.1.44
secret	The secret shared between the LoginTC RADIUS Connector and its client	bigsecret

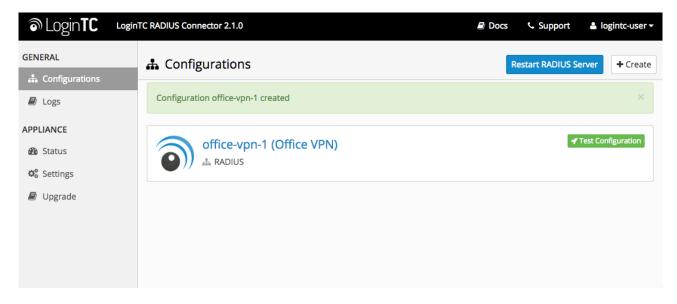
### Under Authentication Mode select Direct

ම Login <b>TC</b> ය	ginTC RADIUS Connector 2.5.1	🗐 Docs 🌜 Support 🚢 logintc-user 🗸
GENERAL	A Configurations /	New Configuration / Client and Encryption Step 4 of 4 Cancel
<ul> <li>♣ Configurations</li> <li>▲ Logs</li> <li>APPLIANCE</li> <li>▲ Status</li> <li>♣ Settings</li> </ul>	Authentication Mode How the LoginTC RADIUS Connector will perform the second factor.	Secret The secret shared between your RADIUS client and the LoginTC RADIUS Connector.  Direct O Iframe O Challenge The LoginTC RADIUS Connector will directly and automatically perform the LoginTC second factor.
	Encryption Determine whether to store passwords and API keys encrypted or in the clear.	Encrypt all passwords and API keys It is strongly recommended to encrypt all sensitive fields.

The LoginTC RADIUS Connector will directly and automatically perform the LoginTC second factor. See <u>User Experience</u> for more information.

It is strongly recommended to enable encryption of all sensitive fields for both PCI compliance and as a general best practice.

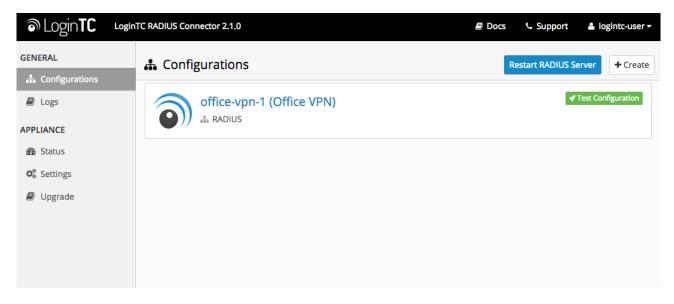
Click Test to validate the values and then click Save.



### 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:

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



Click Test Configuration:

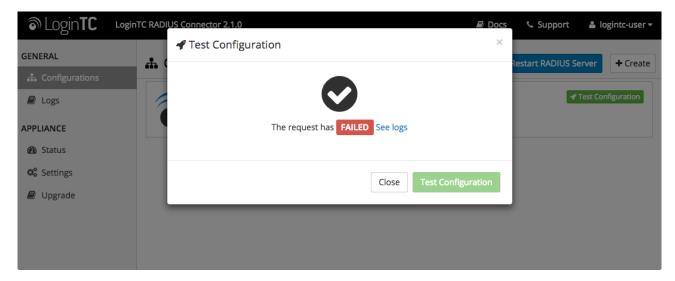
ີ Login <b>TC</b>	LoginTC RADI	US Connector 2.1.0	Docs	Support	🛔 logintc-user <del>-</del>
GENERAL		Test Configuration	×	estart RADIUS Ser	ver + Create
<ul> <li>Configurations</li> <li>Logs</li> </ul>		Test the first and second factor authentication by simulating an actua request. The resulting test LoginTC request will look identical to what receive in a real authentication scenario.	I RADIUS		est Configuration
APPLIANCE		If the authenticating user is configured to passthrough then only the f challenge will apply.	first factor		
Status		Ē			
📽 Settings					
┛ Upgrade		Username			
		Enter username			
		Password			
		Password			
		For LoginTC only authentication leave Password field blan	ik.		
		Close Test Co	onfiguration		

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:

ම Login <b>TC</b>	LoginTC RAD	US Connector 2.1.0		Docs	📞 Support	🛎 logi	intc-user <del>-</del>
GENERAL		🖋 Test Configuration		×	estart RADIUS Se	erver	+ Create
📥 Configurations					_		
🗐 Logs					4	Test Config	guration
APPLIANCE		The request has been APPROVE	D See logs				
Status							
😋 Settings			Close Test Configuration				
┛ Upgrade				_			

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

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



In this case, click **See logs** and then click the /var/log/logintc/authenticate.log tab to view the log file and troubleshoot:

ခါ Login <b>TC</b> Login	aTC RADIUS Connector 2.1.0 🗐 Docs 🕓 Support 🛔 logintc-user 🗸
GENERAL	Logs
📥 Configurations	
🗐 Logs	/var/log/logintc/authenticate.log /var/log/radius/radius.log /var/log/logintc/tornado.log
APPLIANCE	2015-04-28 17:10:15,818 - INFO - 304 GET / (10.0.10.178) 2.42ms 2015-04-28 17:10:17,633 - INFO - 304 GET /logs (10.0.10.178) 2.59ms
Status	2015-04-28 17:10:18,082 - INFO - 304 GET /configurations (10.0.10.178) 2.43ms 2015-04-28 17:10:18,353 - INFO - 304 GET / (10.0.10.178) 2.43ms
📽 Settings	2015-04-28 17:10:21,624 - INFO - 304 GET /status (10.0.10.178) 2.45ms 2015-04-28 17:10:21,806 - INFO - 304 GET /configurations (10.0.10.178) 2.40ms
🗐 Upgrade	2015-04-28 17:10:22,004 - INFO - 304 GET /configurations (10.0.10.178) 2.10ms 2015-04-28 17:10:22,004 - INFO - 304 GET /configurations (10.0.10.178) 2.19ms 2015-04-28 17:10:22,162 - INFO - 304 GET /logs (10.0.10.178) 2.22ms 2015-04-28 17:12:03,539 - INFO - 304 GET /logs (10.0.10.178) 3.00ms
	Displaying last 1000 lines, refreshes automatically every 1 second.
	O Download -

### Cisco ASA Configuration - Quick Guide

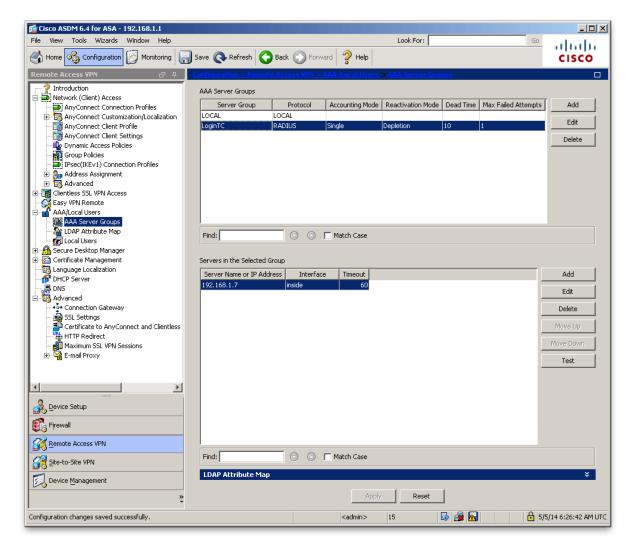
Once you are satisfied with your setup, configure your Cisco ASA client to use the LoginTC RADIUS Connector.

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

ි Login <b>TC</b>	LoginTC RADIUS Connector 2.1.0		Docs	📞 Support	🛎 logintc-user <del>-</del>
GENERAL	🌣 Settings				
🚠 Configurations <i>目</i> Logs	Appliance				
APPLIANCE	IP Address	10.0.10.116			
🚯 Status	RADIUS Authentication Port	1812			
🕫 Settings	RADIUS Accounting Port	1813			
🕑 Upgrade	RADIOS Accounting Port	1013			

The following are quick steps to protect your IPSec VPN setup with LoginTC.

- 1. Launch your Cisco ASA ASDM
- 2. Click AAA Local Users:



3. Under AAA Server Groups click Add:

薩 Edit AAA Server	Group			
AAA Server Group: Protocol:	LoginTC RADIUS			
Accounting Mode:	O <u>Simultaneous</u> O Single			
Reactivation Mode:	O Depletion C Timed			
Dead Time:	10 minutes			
Max Failed Attempts:	1			
Enable interim accounting update				
VPN3K Compatibility Option 🛛 🕹				
ОК	Cancel Help			

Property	Explanation	Example
Accounting Mode	Indicates how accounting messages are sent. Recommended single mode.	single mode
Reactivation Mode	Specifies the method by which failed servers are reactivated.	depleted
Dead Time	Time for which a RADIUS server is skipped over by transaction requests	10
Max Failed Attempts	Maximum number of retransmission attempts. Recommended 1.	1

- 4. Select **Protocol**: RADIUS
- 5. Click Add
- 6. Select the newly created group
- 7. Under Servers in the Selected Group click Add:

📴 Edit AAA Server		×
Server Group:	LoginTC	
Interface Name:	outside 💌	
Server Name or IP Address:	10.0.10.162	
Timeout:	70 seconds	
RADIUS Parameters		_
Server Authentication Port	: 1812	
Server Accounting Port:	1813	
Retry Interval:	5 seconds	
Server Secret Key:	*******	
Common Password:		
ACL Netmask Convert:	Standard	
Microsoft CHAPv2 Capable	:	
SDI Messages		_
Message Table	*	
ОК	Cancel Help	

Property	Explanation	Example
Interface Name	Name of protected Cisco interface	inside
Server name or IP Address	Address of your LoginTC RADIUS Connector	192.168.1.7
Timeout	Authentication timeout. We recommend 70 seconds if you set the LoginTC Request timeout to 60 seconds.	70
Server Authentication Port	RADIUS authentication port. Must be 1812.	1812
Server Accounting Port	RADIUS accounting port. Must be 1813.	1813
Retry Interval	Length of time between retries	5
Server Secret Key	The secret shared between the LoginTC RADIUS Connector and its client	bigsecret
Microsoft CHAPv2 Capable	Whether or not the RADIUS server uses CHAPv2. Must be unchecked	

8. Click IPsec (IKEv1) Connection Profiles

File View Tools Wizards Window Help Look For;   Image: Configuration Monitoring   Image: Configuration Monitoring   Remote Access VPN Image: Configuration   Image: Configuration Configuration	🖆 Cisco ASDM 6.4 for ASA - 10.0.10.145					
When the set of the se	File View Tools Wizards Window Help Look For:					Go
Introduction Network (Clent) Access Any-Connect Outsomization/Localiz Any-Connect Clusten Profiles Interface Any-Connect Clusten Profiles Interface Access Interface Interface Any-Connect Clusten Profiles Interface Advanced Interface Advanced Interface Interf	Home Configuration 🔯 Monitoring		ck 🕐 Forward 🖌	Help		
Interfaces         AnyConnect Connection Profiles         AnyConnect Clent Profiles         AnyConnect Clent Profiles         AnyConnect Clent Profiles         Optimic Access Policies         Board Advanced         Board Advanced         Connection Profiles         Advanced         Board Advanced         Connection Profiles         Connection Profile         Local Users         Local Users         Local Users         Local Users         Remote Access VPN         Statutores         Pervial         Previal         Statutores         Device Management         Statutores         Device Management         Statutores         Add Clear Statutores         DefaultRAGroup         DefaultRAGroup         DefaultWEEVPNGroup         DefaultRAGroup	Remote Access VPN 🗗 🗜	Configuration > Remote Acc	ess VPN > Network	(Client) Access > IPsec	(IKEv1) Connection Profiles	
Name       IPsec Enabled       L2TP/IPsec Enabled       Authentication Server Group       Group Policy         Device Setup       Image: Comparison of the second of t	Network (Client) Access     AnyConnect Connection Profiles     AnyConnect Client Profile     AnyConnect Client Profile     AnyConnect Client Settings     Dynamic Access Policies     Address Assignment     Assignment Policy     Address Pols     Advanced     Advanced     Advanced     Advanced     AAvacal Users     AAA Server Groups     AAA Server Groups     ADP Atribute Map	Enable interfaces for IPsec acco Interface outside inside	is to bypass interface	access lists. Group policy ar		
Device Setup       DefaultWEBVPNGroup       V       LoginTC       DftGrpPolicy         Image: Site-to-Site VPN         Image: Site-to-Site VPN       Image: Site-to		Name	IPsec Enabled	L2TP/IPsec Enabled	Authentication Server Group	Group Policy
Image: Second point of the se					LoginTC	DefaultRAGroup
Image: Site-to-Site VPN       Image: Site-to-Site VPN         Image: Device Management       Image: Site-to-Site VPN	A Device Setup				LoginTC	
Remote Access VPN       Remote Access VPN       Remote VPN       Device Management					_	
Configuration changes saved successfully.	Remote Access VPN         Site-to-Site VPN         Device Management		n n T Match	Core Apply Rese	t	

#### 9. Click Connection Profiles:

10. Select your existing IPSec Connection Profile, click Edit:

Note: Connection Profile Management

You can also create a new Connection Profile in order to not affect your existing configuration. The new Connection Profile can be used for testing purposes

11. Click the **Basic** tab on the left

付 Edit IP	sec Remote Access	Connection Profile: i	psec	×	
Basic	aced	Name:	ipsec		
E Adva	leeu	IKE Peer Authentication	I		
		Pre-shared Key:	******		
		Identity Certificate:	None	Manage	
		User Authentication —			
		Server Group:	LoginTC	Manage	
		Fallback:	Use LOCAL if Server Group fails		
		Client Address Assigmer	nt		
		DHCP Servers:			
		Client Address Pools:		Select	
		Default Group Policy —			
		Group Policy:	DfltGrpPolicy	Manage	
			(Following fields are attributes of the group policy selected above	ve.)	
			✓ Enable IPsec protocol		
			▼ Enable L2TP over IPsec protocol		
Find:			Next O Previous		
	OK Cancel Help				
		UK			

- 12. Under **IKE Peer Authentication** enter a Pre-shared Key (PSK). The key is used to secure data sent between IPsec peers and must be entered in each user's VPN client. Pick a cryptographically strong PSK.
- 13. Under User Authentication for the Server Group select the group made in steps 3-5
- 14. Expand the Advanced tab on the left and click PPP

🚰 Edit IPsec Remote Access	; Connection Profile: ipsec	×
Basic General Client Addressing Authentication Authorization Accounting PIPsec PP	Specify the authentication protocols permitted for a PPP connection.  CHAP MS-CHAP-V1 MS-CHAP-V2 PAP EAP-PROXY Note: L2TP/IPsec on ASA only supports certain AAA Server and PPP combinations. ()	
Find:	S Next Previous	
	OK Cancel Help	

15. Ensure only **PAP** is selected

#### 16. Click **OK**

To test, configured your IPSec client to use the newly configured Connection Profile.

### Troubleshooting

### Not Authenticating

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

ခါ Login <b>TC</b> Login	TC RADIUS Connector 2.1.0	Docs	Support	占 logintc-user 🗸
GENERAL	🚯 Status			
🖧 Configurations				
🗐 Logs	All status checks have passed.			
APPLIANCE	• Diago alegad la cicto aces			
🚯 Status	✓ Ping cloud.logintc.com			
🕸 Settings	✓ RADIUS Process			
Upgrade	✓ CPU Usage			
	✓ RAM Usage			
	✓ Disk Usage			
	✓ Version check			

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

စာ Login <b>TC</b> ၊ Login	TC RADIUS Connector 2.1.0	🖻 Docs 🕓 Support 📤 logintc-user 🗸
GENERAL	Logs	
📥 Configurations		
🗐 Logs	/var/log/logintc/authenticate.log /var/log/radius/radius.log	/var/log/logintc/tornado.log
APPLIANCE	2015-04-28 17:10:15,818 - INFO - 304 GET / (10.0.10.17 2015-04-28 17:10:17,633 - INFO - 304 GET /logs (10.0.1 2015-04-28 17:10:18,082 - INFO - 304 GET /configuratic 2015-04-28 17:10:18,353 - INFO - 304 GET /configuratic 2015-04-28 17:10:21,624 - INFO - 304 GET /configuratic 2015-04-28 17:10:22,004 - INFO - 304 GET /configuratic 2015-04-28 17:10:22,004 - INFO - 304 GET /configuratic 2015-04-28 17:10:22,004 - INFO - 304 GET /logs (10.0.1 2015-04-28 17:10:23,539 - INFO - 304 GET /logs (10.0.1 2015-04-28 17:12:03,539 - INFO - 304 GET /logs (10.0.1 2015-04-28 17:12:03,539 - INFO - 304 GET /logs (10.0.1 2015-04-28 17:12:03,539 - INFO - 304 GET /logs (10.0.1 2015-04-28 17:10:22,004 - INFO - 304 GET /logs (10.0.1 2015-04-28 17:12:03,539 - INFO - 304 GET /logs (10.0.1 2015-04-28 17:10:20,539 - INFO - 304 GET /logs (10.0.1 2015-04-28 17:10:20,500 - INFO - I	10.178) 2.59ms ons (10.0.10.178) 2.43ms 78) 2.43ms 0.10.178) 2.45ms ons (10.0.10.178) 2.40ms ons (10.0.10.178) 2.19ms 10.178) 2.22ms 10.178) 3.00ms

# Email Support

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