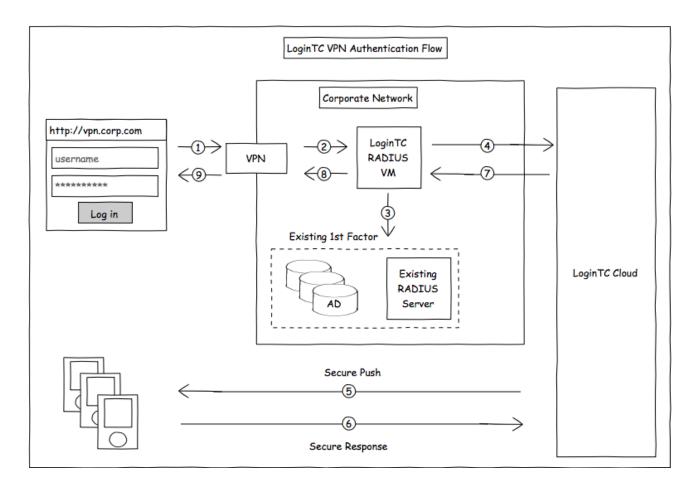
logintc.com/docs/connectors/openvpn-as.html

The LoginTC RADIUS Connector is a complete two-factor authentication virtual machine packaged to run within your corporate network. The LoginTC RADIUS Connector enables <u>OpenVPN Access Server</u> to use <u>LoginTC</u> for the most secure two-factor authentication.



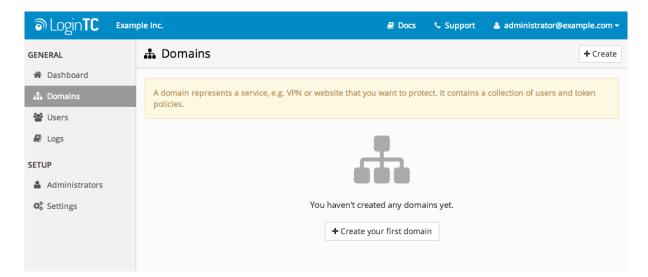
Prerequisites

Before proceeding, please ensure you have the following:

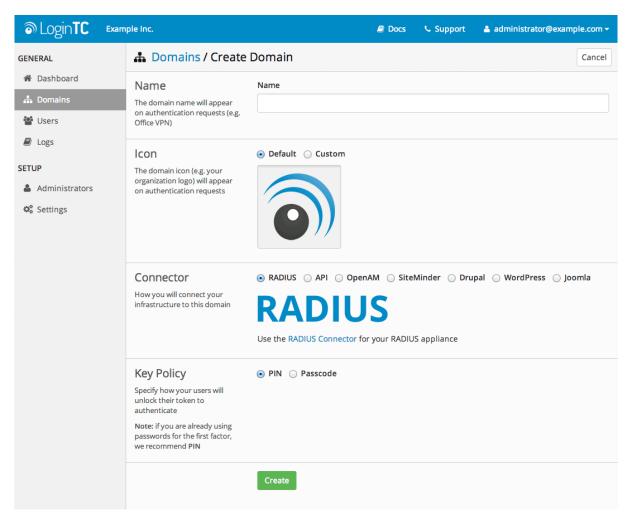
RADIUS Domain Creation

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 change.

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:

| ခာ Login TC | Login | TC RADIUS Connector 2.1.0 | | Docs | 🍤 Support | 🛎 log | intc-user - |
|---|-------|---------------------------|--|--------|-------------------|-------|------------------------|
| GENERAL | | 🚓 Configurations | | | Restart RADIUS Se | erver | + Create |
| Logs | | | | | | | |
| Status Settings Upgrade | | | You haven't created any configurations | s yet. | | | |
| | | | | | | | |

LoginTC Settings

Configure which LoginTC organization and domain to use:

| ခာ Login TC ယ။ | inTC 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 |

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

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

| ی Login TC دمع | inTC RADIUS Connector 2.1.0 | 🗐 Docs 🔍 Support 🛔 logintc-user 🗸 | | |
|-----------------------|---|--|--|--|
| GENERAL | 🛔 New Configuration | n / LoginTC Settings Step 1 of 4 Cancel | | |
| A Configurations | LoginTC Settings | API Key | | |
| ┛ Logs | Values which will dictate how the LoginTC RADIUS Connector | vZkDw7l6Z3tApwZJXERseKdR0s5RNNqjMxXlwvxpWwJOa9oJXi9b5tdvPyFsqzwJ | | |
| APPLIANCE | 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 cioda 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.

| ම Login TC 🗔 | ginTC RADIUS Connector 2.1.0 | 🖻 Docs 🕓 Support 🔒 logintc-user 🗸 |
|---|---|---|
| GENERAL | 🚠 New Configuratio | n / First Factor Step 2 of 4 Cancel |
| Configurations Confi | First Factor Select the first way users will authenticate prior to LoginTC. | • LDAP Active Directory RADIUS None Connect to an existing LDAP server for username / password verification. |
| APPLIANCE Status Settings Upgrade | LDAP Server Details The LDAP host and port information. | Host 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**:

| ခာ Login TC မ | oginTC RADIUS Connector 2.1.0 | 🖻 Docs 🥾 Support 🛔 logintc-user 🗸 |
|--|---|--|
| GENERAL | 📥 New Configuratio | n / First Factor Step 2 of 4 Cancel |
| Configurations Logs | First Factor Select the first way users will authenticate prior to LoginTC. | ○ LDAP • Active Directory ○ RADIUS ○ None Connect to an existing Active Directory server for username / password verification. |
| APPLIANCE Status Status 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 |
| 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> |

| Property | Explanation | Examples |
|--------------------------------------|--|-------------------------|
| 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**:

| ි Login TC | LoginTC RADIUS Connector 2.1.0 | 😹 Docs 🕓 Support 🚢 logintc-user 🗸 |
|---|---|--|
| GENERAL | 🚠 New Configuratio | on / First Factor Step 2 of 4 Cancel |
| Configurations Logs APPLIANCE | First Factor Select the first way users will authenticate prior to LoginTC. | ○ LDAP ○ Active Directory |
| APPLIANCE Status Settings Upgrade | RADIUS Server Details The RADIUS host and secret. | Host 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)

| ခဲ Login TC | LoginTC RADIUS Connector 2.1.0 | 🖻 Docs 🕓 Support 🛔 logintc-user - |
|--------------------|--|---|
| GENERAL | 🚠 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 | | |
| | | |
| | | |
| | | |

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

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.

| ි Login TC | LoginTC RADIUS Connector 2.1.0 | 🗐 Do | cs 🌭 Support | 🛎 logintc-user - |
|---|---|-------------------------|--------------|-----------------------------|
| GENERAL | 📥 New Configuration | n / Passthrough | Step | 3 of 4 Cancel |
| Configurations Cos | Passthrough Configure list of users which will not be challenged by LoginTC. | ○ No Passthrough | | |
| Status Settings Upgrade | Static List Only users in this list will be challenged with LoginTC. All other users will be challenged with configured first factor only. | LoginTC challenge users | | |

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 TC | LoginTC RADIUS Connector 2.1.0 | 🗐 Docs 🔍 Support 🛔 logintc-user 🗸 |
|--|--|---|
| GENERAL | 🚠 New Configuration | n / Passthrough Step 3 of 4 Cancel |
| Configurations Cogs APPLIANCE | Passthrough Configure list of users which will not be challenged by LoginTC. | ○ No Passthrough ○ Static List ○ LDAP Group Active Directory Group Connect to an existing Active Directory server for group membership verification. Good for large number of users. |
| BatusSettingsUpgrade | Auth Groups Only users which are members of one or more of the specified groups will be challenged with LoginTC. All other users will be challenged with configured first factor only. | LoginTC challenge Auth Groups Comma separated list of groups membership for which users will be challenged with LoginTC. Example: logintc_users, operations |
| | AD Server Details The Active Directory host and port information. | Host |

Configuration values:

| Property | Explanation | Examples |
|-------------------|--|-----------------------------|
| LoginTC challenge | Comma separated list of groups for which | SSLVPN-Users or two- |
| auth groups | users will be challenged with LoginTC | factor-users |

| 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 |
| 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 |
| 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**.

Client and Encryption

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

| ခါ Login TC Login | TC RADIUS Connector 2.1.0 | 🖅 Docs 🥾 Support 📤 logintc-user 🗸 |
|---|--|--|
| GENERAL | 🚠 New Configuration | n / Client and Encryption Step 4 of 4 Cancel |
| ConfigurationsLogs | Client Settings Settings for your RADIUS client | Name |
| APPLIANCE | (e.g. a RADIUS-speaking VPN) to connect to the LoginTC RADIUS Connector. | A unique identifier of your RADIUS client. Use only alphanumeric characters and hyphens. This will also be used for the name of the configuration file. Example: corp-vpn-1 will be saved on |
| StatusSettings | | disk as corp-vpn-1.cfg. IP Address |
| Upgrade | | The IP address of your RADIUS client. |
| | | Secret |
| | | The secret shared between your RADIUS client and the LoginTC RADIUS Connector. |
| | Encryption | Sencrypt all passwords and API keys |
| | Determine whether to store passwords and API keys encrvoted or in the clear. | 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 |

Data Encryption

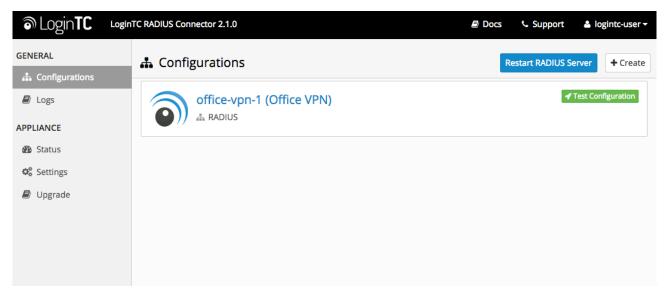
It is strongly recommended to enable encryption of all sensitive fields for both PCI compliance and as a general best practice.

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

| ခာ Login TC မ | oginTC RADIUS Connector 2.1.0 | 🗐 Docs 🕓 Support 💄 logintc-user 🗸 |
|----------------------|------------------------------------|-----------------------------------|
| GENERAL | 🚓 Configurations | Restart RADIUS Server + Create |
| Logs | Configuration office-vpn-1 created | |
| APPLIANCE | office-vpn-1 (Office VPN) | ✓ Test Configuration |
| 🗐 Upgrade | | |
| | | |
| | | |

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:

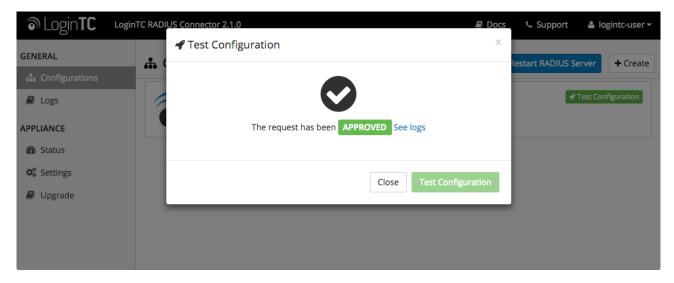
When you have loaded a token for your new user and domain, navigate to your appliance**web** interface URL:



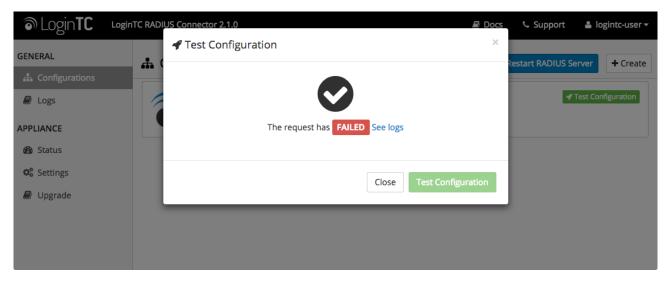
Click Test Configuration:

| S Login TC Login | TC RADI | US Connector 2.1.0 | 🖻 Docs | 📞 Support | 🛎 logintc-user - |
|-------------------------|-----------|---|----------|-------------------|-----------------------------|
| GENERAL | (| A Test Configuration | × | Restart RADIUS Se | erver + Create |
| 🚓 Configurations | | Test the first and second factor authentication by simulating an actual RA request. The resulting test LoginTC request will look identical to what a u receive in a real authentication scenario. | | | Test Configuration |
| APPLIANCE | | If the authenticating user is configured to passthrough then only the first challenge will apply. | t factor | | |
| 🚯 Status | | A | | | |
| 😋 Settings | | | | | |
| 🗐 Upgrade | | Username | | | |
| | | Enter username | | | |
| | | Password | | | |
| | | Password | | | |
| | | For LoginTC only authentication leave Password field blank. | | | |
| | | Close Test Config | guration | | |
| | | | | | |

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:



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:

| ම Login TC | LoginTC 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 17:10:15,818 - 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) 2.19ms 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 - |
| | |

OpenVPN AS Quick Config Guide

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

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

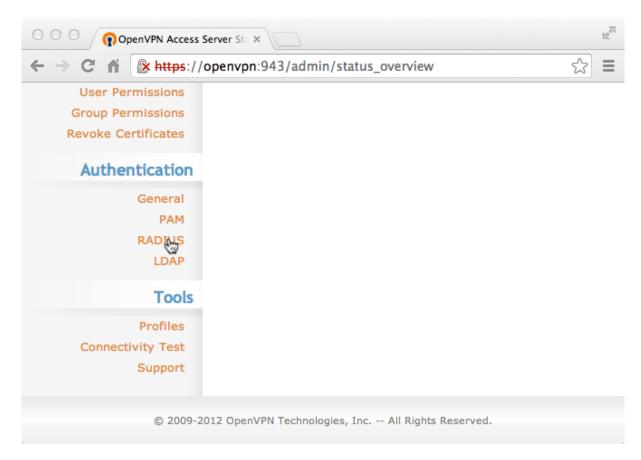
| ခာ Login TC | Login | TC RADIUS Connector 2.1.0 | | Docs | 📞 Support | 💄 logintc-user - |
|--------------------|-------|---------------------------|-------------|------|-----------|-----------------------------|
| GENERAL | | o: Settings | | | | |
| 🛔 Configurations | | | | | | |
| 🗐 Logs | | Appliance | | | | |
| APPLIANCE | | IP Address | 10.0.10.116 | | | |
| 🍘 Status | | RADIUS Authentication | 1812 | | | |
| 🕫 Settings | | IP Address | | | | |
| ┛ Upgrade | | RADIUS Accounting Port | 1813 | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| ₽ Upgrade | | RADIUS Accounting Port | 1813 | | | |

The following are quick steps to get VPN access protected with LoginTC. The instructions can be used for existing setups as well.

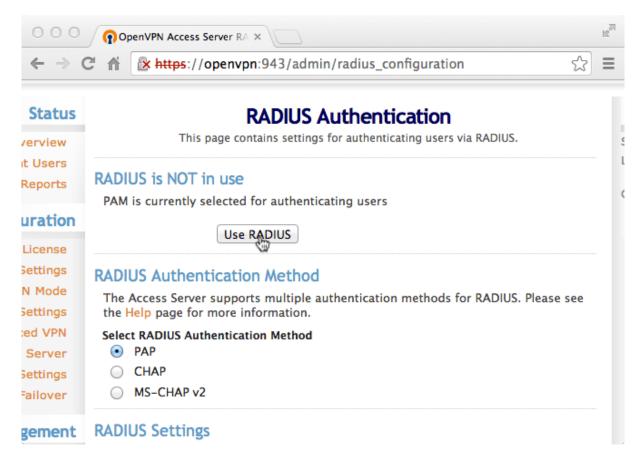
1. Sign In to your OpenVPN Access Server

| OOO OpenVPN Login × | R |
|--|-------------|
| ← → C ☆ <u>https</u> ://openvpn:943/admin/ | ත් = |
| OpenVPN Technologies | |
| Admin Login | |
| Username | |
| Password | |
| Sign In | |
| | |

2. Under Authentication click RADIUS:



3. If "RADIUS is NOT in use" is present, click Use RADIUS button:



4. Under "RADIUS Authentication Method" select PAP:

| 000 | OpenVPN Access Server RA × | R _M | | | |
|---------------------------------------|---|----------------|--|--|--|
| $\leftrightarrow \Rightarrow C$ | ★ https://openvpn:943/admin/radius_configuration | ∃ | | | |
| Status | RADIUS Authentication | | | | |
| s Overview | This page contains settings for authenticating users via RADIUS. | | | | |
| rrent Users .og Reports | RADIUS in use RADIUS is currently selected for authenticating users | | | | |
| figuration | RADIUS Authentication Method | | | | |
| License rk Settings | The Access Server supports multiple authentication methods for RADIUS. Please see the Help page for more information. | | | | |
| VPN Mode PN Settings ranced VPN | Select RADIUS Authentication Method PAP CHAP | | | | |
| Veb Server | ○ MS-CHAP v2 | | | | |
| nt Settings Failover | RADIUS Settings | | | | |
| nagement | Hostname or IP Address Shared Secret Authentication Account Port Port | | | | |
| | | , ۲ | | | |

5. Under "RADIUS Settings" add a new entry to the form:

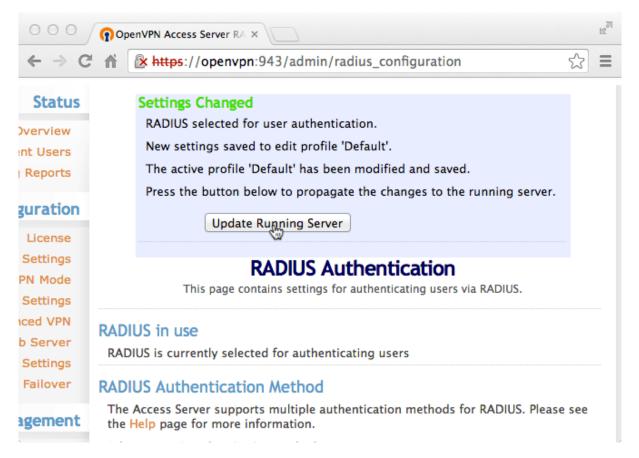
| OOO (OpenVPN Access Server RA × | | | | | |
|---|-----------|---|------------------|------------------------|--------------------|
| ← → C | fi fi | 隆 https://openvpn:94 | 3/admin/radius_c | onfiguration | ☆ = |
| ced VPN 5 Server Settings Failover | Sele O | ct RADIUS Authentication PAP CHAP MS-CHAP v2 | Method | | |
| gement | RAD | IUS Settings | | | |
| missions | н | lostname or IP Address | Shared Secret | Authentication Port | Accounting Port |
| missions tificates | 10 | 0.0.10.34 I | ••••• | 1812 | 1813 |
| tication | | | | 1812 | 1813 |
| General PAM | | | | 1812 | 1813 |
| RADIUS LDAP | | Enable RADIUS Accounti | ng | 1812 | 1813 |
| Tools | | Save Sett | ings | | |

| Property | Explanation | Example |
|---------------------------|---|-------------|
| Hostname or IP Address | Address of LoginTC RADIUS Connector | 192.168.1.1 |
| Shared Secret | The secret shared between the LoginTC RADIUS Connector and its client | bigsecret |
| Authentication Port | RADIUS authentication port. Must be 1812. | 1812 |
| Accounting Port | RADIUS accounting port. Must be 1813 | 1813 |

6. Click Save Settings:

| 000 | 📓 open | vpn-configuration- | 4.tiff | |
|---|---|--------------------|------------------------|--------------------|
| 000 | OpenVPN Access Server RA × | | | R _M |
| ← → C | A https://openvpn:94 | 3/admin/radius_c | onfiguration | ☆ = |
| ced VPN > Server Settings Failover | Select RADIUS Authentication M PAP CHAP MS-CHAP v2 | Method | | |
| gement | RADIUS Settings | | | |
| nissions | Hostname or IP Address | Shared Secret | Authentication Port | Accounting Port |
| nissions tificates | 10.0.10.34 J | •••• | 1812 | 1813 |
| tication | | | 1812 | 1813 |
| General | | | 1812 | 1813 |
| PAM RADIUS | | | 1812 | 1813 |
| LDAP | Enable RADIUS Accounting | ng | | |
| Tools | Save Setti | ngs | | |

7. Click Update Running Server:



To test, navigate to your OpenVPN Access Server clientless VPN portal or use OpenVPN Connect and attempt access.

Troubleshooting

No Network Connection

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

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

| ຈ Login TC | LoginTC RADIUS Connector 2.1.0 🖻 Docs 📞 Support 🔒 logintc-user 🗸 |
|-------------------|--|
| GENERAL | 2 Status |
| 🛔 Configurations | |
| 🗐 Logs | All status checks have passed. |
| APPLIANCE | ✓ Ping cloud.logintc.com |
| 🚯 Status | |
| 📽 Settings | ✓ RADIUS Process |
| Upgrade | ✓ CPU Usage |
| | ✓ RAM Usage |
| | ✓ Disk Usage |
| | ✓ Version check |

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

| ခါ Login TC မဏ | nTC 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 17:10:15,818 - 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) 2.19ms 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 - |
| | |

Email Support

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