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## Configure a Terminal Server Agent

 For supported software information, click [here](#).

In a multi-user virtual desktop environment, it is difficult to identify users when many users share the same IP address. A Versa terminal server agent (TSA) identifies users from virtual desktops instances, such as Windows-based terminal servers, by allocating a unique port range to each user. The terminal server agent then notifies each connected firewall about the allocated port range. The firewall then creates an IP-address-to-port user mapping table and enables user-based and group-based security policy enforcement.

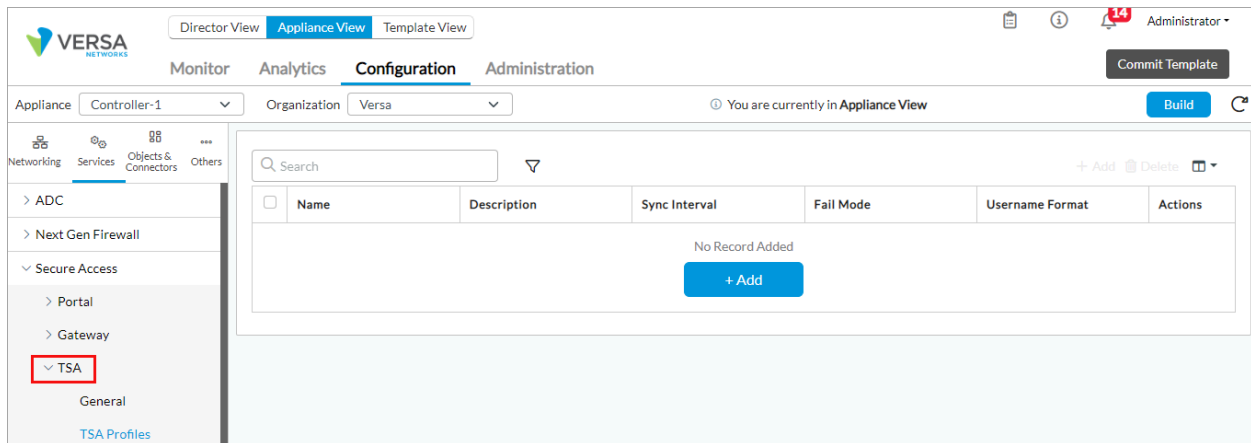
To create user-based and group-based security policy for the terminal server agent, you configure a terminal server agent profile, which is used to synchronize the agent with VOS devices and to allocate port ranges for users. You can then use the terminal server agent profile in terminal server agent services to enforce policies for user authentication. After a user installs a terminal server agent on a Windows device, the agent starts sending user events to the associated Versa Operating System™ (VOS™) device.

This article describes how to configure a terminal server agent profile and terminal server agent services.

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## Configure Terminal Server Agent Profiles

1. In Director view:
  - a. Select the Administration tab in the top menu bar.
  - b. Select Appliances in the left menu bar.
  - c. Select a device in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Services > Secure Access > TSA > TSA Profiles the left menu bar.



- Click the + Add icon. In the Add TSA Profiles popup window, enter information for the following fields.

### Add TSA Profiles

Name \*

Description

Sync Interval(mins)

Fail Mode

Username Format

Port Allocation

Source Range \*

Reserved Range

Start Size \*

Max Size \*

Fail Mode

OK

Cancel

Field	Description
Name (Required)	Enter a name for the terminal server agent profile.
Description	Enter a text description for the terminal server agent profile.
Synchronize Interval	Enter how often, in minutes, to synchronize the configuration with the terminal server agent. <i>Default:</i> 360 minutes
Fail Mode	Select the traffic mode if the terminal server agent server connection fails: <ul style="list-style-type: none"> <li>◦ Close—Deny traffic if the terminal server agent server connection fails. This is the default.</li> <li>◦ Open—Allow traffic if the terminal server agent server connection fails.</li> </ul> <i>Default:</i> Close
Username Format	Select the username format to have the terminal server agent recognize: <ul style="list-style-type: none"> <li>◦ userPrincipalName—User principle name. A user principle name consists of a prefix (user account name), followed by the @ symbol and a suffix (DNS domain name). For example, someone@my-company.com.</li> </ul>
Port Allocation (Group of Fields)	
◦ Source Range	Enter the source port allocation range for user sessions.
◦ Reserved Range	Enter the reserved port allocation range for user sessions.
◦ Start Size	Enter the initial port allocation size for each user.
◦ Maximum Size	Enter the maximum port allocation size for each user.
◦ Fail Mode	Select action that the agent uses to block flows when the user exhausts their allocated ports:

	<ul style="list-style-type: none"> <li>◦ Close—Deny traffic if the user exhausts allocated ports. This is the default.</li> <li>◦ Open—Allow traffic if the user exhausts allocated ports.</li> </ul> <p><i>Default: Close</i></p>
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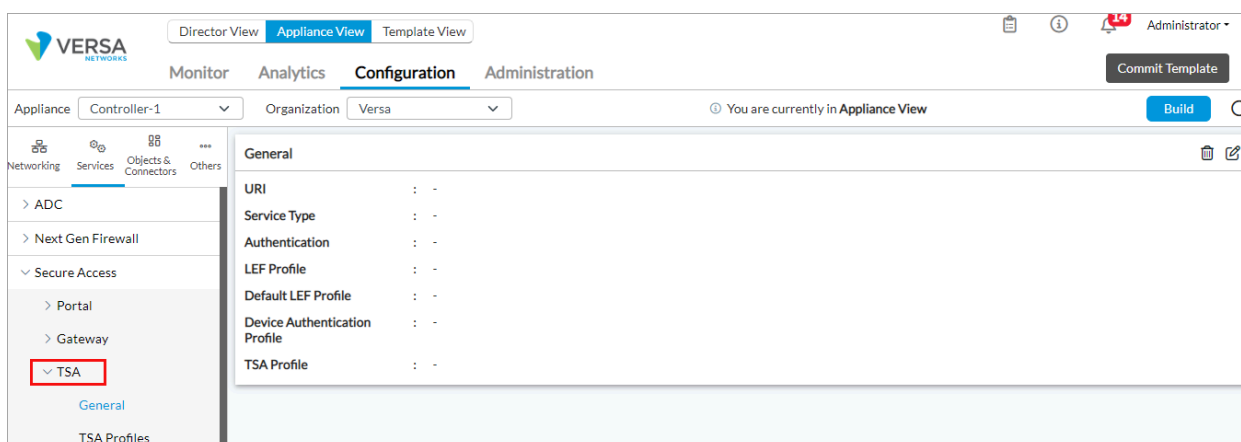
5. Click OK.

## Configure Terminal Server Agent Services

You can configure services to associate with a terminal server agent, such as TSA profiles, authentication, and device authentication that the terminal server agent uses to identify and authenticate users.

To configure terminal server agent services:

1. In Director view:
  1. Select the Administration tab in the top menu bar.
  2. Select Appliances in the left menu bar.
  3. Select a device in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Services > Secure Access > TSA > General the left menu bar.



4. Click the  Edit icon. In the Add Services popup window, enter information for the following fields.

Add Services
✕

URI

tsa

Service Type

TSA

TSA Profile

---Please Select---

Authentication

---Please Select---

Device Authentication Profile

---Please Select---

LEF Profile

---Please Select---

☐ Default LEF Profile

OK

Cancel

Field	Description
URI	This field displays the uniform resource identifier as TSA, and you cannot edit it.
Service Type	This field displays the service type as TSA, and you cannot edit it.
TSA Profile	Select the terminal server agent profile to associate with the terminal server agent service. The profiles listed are those that you created, as described in <a href="#">Configure TSA Profiles</a> , above.
Authentication	Select an authentication profiles to associate with the terminal server agent. For more information, see <a href="#">Configure an Authentication Profile</a> .
Device Authentication Profile	Select a certificate authentication profile for the terminal server agent to authenticate users and devices. For more information, see <a href="#">Configure Certificate Authentication Profile</a> .
LEF Profile	Select an LEF profile to use to register logs for the terminal server agent.
Default LEF Profile	Click to mark the LEF profile as the default profile.

5. Click OK.

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## Supported Software Information

Releases 22.1.1 and later support all content described in this article.

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## Additional Information

[Configure Versa Secure Access Service](#)

[Configure User and Group Policy](#)

[Install and Use a Terminal Server Agent](#)