## Configure remote authentication through TACACS+

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The ExtraHop system supports Terminal Access Controller Access-Control System Plus (TACACS+) for remote authentication and authorization.

Ensure that each user to be remotely authorized has the ExtraHop service configured on the TACACS+ server before beginning this procedure.

- Important: For recordstores and packetstores, enabling remote access grants administrative privileges to all users in the TACACS+ authentication system, regardless of the privileges that the authentication system specifies for each user.
- 1. Log in to the Administration settings on the ExtraHop system through https://extrahop-hostname-or-IP-address>/admin.
- 2. In the Access Settings section, click **Remote Authentication**.
- 3. From the Remote authentication method drop-down menu, select TACACS+, and then click Continue.
- 4. On the Add TACACS+ Server page, type the following information:
  - Host: The hostname or IP address of the TACACS+ server. Make sure that the DNS of the ExtraHop system is properly configured if you are entering a hostname.
  - Secret: The shared secret between the ExtraHop system and the TACACS+ server. Contact your TACACS+ administrator to obtain the shared secret.
    - Note: The secret cannot include the number sign (#).
  - Timeout: The amount of time in seconds that the ExtraHop system waits for a response from the TACACS+ server before attempting to connect again.
- Click Add Server.
- 6. Optional: Add additional servers as needed.
- 7. Click Save and Finish.
- 8. For recordstores and packetstores, click **Done** and then skip to configuring the TACACS+ server. For sensors and consoles, complete the remaining steps below.
- 9. From the Permission assignment options drop-down menu, choose one of the following options:
  - Obtain privileges level from remote server

This option allows remote users to obtain privilege levels from the remote server. You must also configure permissions on the TACACS+ server.

## Remote users have full write access

This option grants remote users full write access to the ExtraHop system. In addition, you can grant additional access for packet downloads, TLS session keys, NDR module access, and NPM module access.

## Remote users have full read-only access

This option grants remote users read-only access to the ExtraHop system. In addition, you can grant additional access for packet downloads, TLS session keys, NDR module access, and NPM module access.

- 10. Optional: Configure packet and session key access. Select one of the following options to allow remote users to download packet captures and TLS session keys.
  - No access
  - Packet slices only

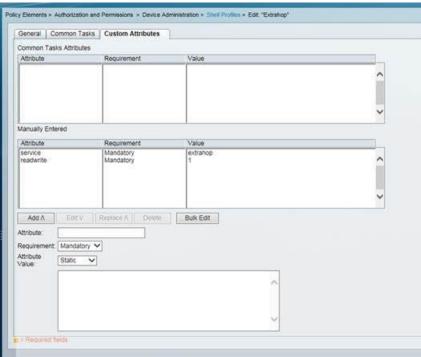
- Packet headers only
- **Packets only**
- Packets and session keys
- 11. Optional: Configure NDR and NPM module access (On sensors and consoles only).
  - No access
  - **Full access**
- 12. Click Save and Finish.
- 13. Click Done.

## Configure the TACACS+ server

In addition to configuring remote authentication on your ExtraHop system, you must configure your TACACS+ server with two attributes, one for the ExtraHop service and one for the permission level. If you have an ExtraHop packetstore, you can optionally add a third attribute for packet capture and session key logging.

- Log in to your TACACS+ server and navigate to the shell profile for your ExtraHop configuration.
- 2. For the first attribute, add service.
- 3. For the first value, add extrahop.
- 4. For the second attribute, add the privilege level, such as readwrite.
- 5. For the second value, add 1.

For example, the following figure shows the extrahop attribute and a privilege level of readwrite.



Here is a table of available permission attributes, values, and descriptions:

Attribute	Value	Description
setup	1	Create and modify all objects and settings on the ExtraHop
		system and manage user access

Attribute	Value	Description
readwrite	1	Create and modify all objects and settings on the ExtraHop system, not including Administration settings
limited	1	Create, modify, and share dashboards
readonly	1	View objects in the ExtraHop system
personal	1	Create personal dashboards for themselves and modify any dashboards that have been shared with them
limited_metrics	1	View shared dashboards
ndrfull	1	View, acknowledge, and hide security detections
npmfull	1	View, acknowledge, and hide performance detections
packetsfull	1	View and download packets stored on a connected packetstore.
packetslicesonly	1	View and download packet slices on a connected packetstore.
packetheadersonly	1	Search and download only packet headers on a connected packetstore.
packetsfullwithkeys	1	View and download packets and associated session keys stored on a connected packetstore.

6. Optional: Add the following attribute to allow users to view, acknowledge, and hide security detections

Attribute	Value
ndrfull	1

7. Optional: Add the following attribute to allow users to view, acknowledge, and hide performance detections that appear in the ExtraHop system.

Attribute	Value
npmfull	1

8. Optional: If you have an ExtraHop packetstore, add an attribute to allow users to download packet captures or packet captures with associated session keys.

Attribute	Value	Description
packetslicesonly	1	Users with any privilege level can view and download the first 64 bytes of packets.
packetheadersonly	1	Users with any privilege level can search and download packet headers on a connected packetstore.
packetsfull	1	Users with any privilege level can view and download packets stored on a connected packetstore.
packetsfullwithkeys	1	Users with any privilege level can view and download packets and associated session keys stored on a connected packetstore.