Remote Authentication API. v1.0

Created Jan 16, 2024 at 02:01 PM

Resources

Remote authentication: List all authentication sequences

Returns a list of all supported authentication sequences of primary and fallback authentication methods.

GET https://{device}/api/mgmt.remote_authentication/1.0/all_auth_sequences

Authorization

This request requires authorization.

Response Body

On success, the server returns a response body with the following structure:

JSON

```
[
  {
    "id": number,
    "authentication_sequence": string
  }
]

Example:
[
  {
    "id": 1,
    "authentication_sequence": "Local, RADIUS, TACACS+"
  },
  {
    "id": 2,
    "authentication_sequence": "Local, TACACS+, RADIUS"
  },
  {
    "id": 3,
    "authentication_sequence": "Local, RADIUS"
  },
  {
    "id": 4,
    "authentication_sequence": "Local, TACACS+"
  },
  {
    "id": 5,
    "authentication_sequence": "Local only"
  }
]
```

Property Name	Type	Description	Notes
GetAllAuthSequences	<array of <object>>	List of all supported authentication sequences along with their unique IDs of primary and fallback authentication methods	
GetAllAuthSequences[item]	<object>		
GetAllAuthSequences[item].id	<number>	Unique ID denoting each authentication sequence	
GetAllAuthSequences[item]. authentication_sequence	<string>	authentication sequence in string format	

Remote authentication: Get current authentication sequence

Returns currently set authentication sequence of primary and fallback authentication methods.

GET https://{device}/api/mgmt.remote_authentication/1.0/current_auth_sequence

Authorization

This request requires authorization.

Response Body

On success, the server returns a response body with the following structure:

```json
JSON

{
  "id": number,
  "authentication_sequence": string
}

Example:
{
  "id": 1,
  "authentication_sequence": "Local, RADIUS, TACACS+"
}
```

Property Name	Type	Description	Notes
response	*<object>*	Dictionary showing ID and authentication sequenceof	
response.id	*<number>*	Unique ID denoting each authentication sequence	
response.authentication_sequence	*<string>*	authentication sequence in string format	

Remote authentication: Set current authentication sequence

Sets current authentication sequence.

POST https://{device}/api/mgmt.remote_authentication/1.0/current_auth_sequence

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

```json
JSON

{
  "id": number
}

Example:
{
  "id": 1
}
```

Property Name	Type	Description	Notes
SetCurrentAuthentication	*<object>*	ID of the authentication sequence	
SetCurrentAuthentication.id	*<number>*		

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Add radius server

Adds new radius server.

POST https://{device}/api/mgmt.remote_authentication/1.0/radius/server

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

```json
JSON
```

```
{
  "address": string,
  "port": number,
  "secret": string,
  "protocol": string,
  "enabled": boolean
}

Example:
{
  "address": "10.70.45.14",
  "port": 1812,
  "secret": "secretKey",
  "protocol": "PAP",
  "enabled": true
}
```

Property Name	Type	Description	Notes
AddRadiusServer	*\<object\>*	Required fields to add a new radius server	
AddRadiusServer.address	*\<string\>*	Server IP	
AddRadiusServer.port	*\<number\>*	Server Port	
AddRadiusServer.secret	*\<string\>*	Secret key	
AddRadiusServer.protocol	*\<string\>*	Protocol	
AddRadiusServer.enabled	*\<boolean\>*		

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: List all radius servers

Returns a list of all radius servers.

GET https://{device}/api/mgmt.remote_authentication/1.0/radius/server

Authorization

This request requires authorization.

Response Body

On success, the server returns a response body with the following structure:

JSON
```

```
[
  {
    "server_id": number,
    "port": number,
    "order": number,
    "address": string,
    "protocol": string,
    "secret": string,
    "enabled": number
  }
]

Example:
[
  {
    "server_id": 1,
    "port": 1812,
    "order": 0,
    "address": "10.70.45.13",
    "protocol": "PAP",
    "secret": "****************",
    "enabled": 1
  },
  {
    "server_id": 2,
    "port": 1812,
    "order": 1,
    "address": "10.70.45.14",
    "protocol": "PAP",
    "secret": "****************",
    "enabled": 1
  }
]
```

Property Name	Type	Description	Notes
GetAllRadiusServer	<array of <object>>	List of all radius servers	
GetAllRadiusServer[item]	<object>		
GetAllRadiusServer[item].server_id	<number>	Unique ID denoting each radius server	
GetAllRadiusServer[item].port	<number>	Server Port	
GetAllRadiusServer[item].order	<number>	Index of radius servers in all radius server's order list	
GetAllRadiusServer[item].address	<string>	Server IP	
GetAllRadiusServer[item].protocol	<string>	Server protocol	
GetAllRadiusServer[item].secret	<string>	Secret key passed while adding server, it will be cloaked(instead of text "*" will be shown) to reveal it pass "uncloak" argument in API's URL	
GetAllRadiusServer[item].enabled	<number>	1 denoting to true and 0 to false	

Remote authentication: Update an existing radius server

Updates a radius server having server ID passed in request URL.

PUT https://{device}/api/mgmt.remote_authentication/1.0/radius/server/<id>

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

JSON

```
{
  "address": string,
  "port": number,
  "secret": string,
  "protocol": string,
  "enabled": boolean
}

Example:
{
  "address": "10.70.45.14",
  "port": 1812,
  "secret": "secretKey",
  "protocol": "PAP",
  "enabled": true
}
```

Property Name	Type	Description	Notes
UpdateRadiusServer	*<object>*	Required fields to updatea a radius server	
UpdateRadiusServer.address	*<string>*	Server IP	
UpdateRadiusServer.port	*<number>*	Server Port	
UpdateRadiusServer.secret	*<string>*	Secret key	
UpdateRadiusServer.protocol	*<string>*	Protocol	
UpdateRadiusServer.enabled	*<boolean>*		

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Delete a radius server by ID

Deletes a radius server having server ID passed in request URL.

DELETE https://{device}/api/mgmt.remote_authentication/1.0/radius/server/<id>

Authorization

This request requires authorization.

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Delete all radius servers

Deletes all radius servers.

DELETE https://{device}/api/mgmt.remote_authentication/1.0/radius/server

Authorization

This request requires authorization.

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Reorder radius server

This method can be used or multiple scenarios, mainly if user wants to change the order of existing servers, in-order to change the order first use GET API to list all radius servers (pass "uncloak" argument to reveal secret else it cloaked keys won't work)then change the server in that returned at which ever order you want to have and then pass the same list of servers as body to this request, internally this API will be deleting all existing radius servers and inserting one by one passed in the body .

POST https://{device}/api/mgmt.remote_authentication/1.0/radius/reorder

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

```json
[
  {
    "port": number,
    "address": string,
    "protocol": string,
    "secret": string,
    "enabled": number
  }
]

Example:
[
  {
    "server_id": 1,
    "port": 1812,
    "order": 0,
    "address": "10.70.45.13",
    "protocol": "PAP",
    "secret": "check",
    "enabled": 1
  },
  {
    "server_id": 2,
    "port": 1812,
    "order": 1,
    "address": "10.70.45.14",
    "protocol": "PAP",
    "secret": "test",
    "enabled": 1
  }
]
```

Property Name	Type	Description	Notes
ReorderRadiusServers	*<array of <object>>*	List of radius servers	
ReorderRadiusServers[item]	*<object>*		
ReorderRadiusServers[item].port	*<number>*	Server Port	
ReorderRadiusServers[item].address	*<string>*	Server IP	
ReorderRadiusServers[item].protocol	*<string>*	Server protocol	
ReorderRadiusServers[item].secret	*<string>*	Secret key	
ReorderRadiusServers[item].enabled	*<number>*	1 denoting to true and 0 to false	

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Get radius server's connection settings

Returns connection timeout time in seconds along with max number of tries for any radius server.

GET https://{device}/api/mgmt.remote_authentication/1.0/radius/connection

Authorization

This request requires authorization.

Response Body

On success, the server returns a response body with the following structure:

JSON

```
{
  "connection_timeout": number,
  "max_number_of_tries": number
}

Example:
{
  "connection_timeout": 5,
  "max_number_of_tries": 3
}
```

Property Name	Type	Description	Notes
GetRadiusConnecctionSettings	*<object>*	Dictionary showing connection timeout and max number of tries	
GetRadiusConnecctionSettings. connection_timeout	*<number>*	connection timeout time in seconds	
GetRadiusConnecctionSettings. max_number_of_tries	*<number>*	max number of tries	

Remote authentication: Set radius server's connection settings

Sets connection timeout time in seconds and max number of tries for any radius server. User needs to pass only the one which needs to be set no need to pass both unless trying to set both

POST https://{device}/api/mgmt.remote_authentication/1.0/radius/connection

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

JSON

```
{
  "connection_timeout": number,
  "max_number_of_tries": number
}

Example:
{
  "connection_timeout": 5,
  "max_number_of_tries": 3
}
```

Property Name	Type	Description	Notes
SetRadiusConnecctionSettings	*<object>*	connection timeout and max number of tries	
SetRadiusConnecctionSettings. connection_timeout	*<number>*	connection timeout time in seconds	
SetRadiusConnecctionSettings. max_number_of_tries	*<number>*	max number of tries	

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Get radius roles and s attribute mapping

Returns all roles and permissions along with their attribut's ID and attributes value for radius servers.

GET https://{device}/api/mgmt.remote_authentication/1.0/radius/role_mapping

Authorization

This request requires authorization.

Response Body

On success, the server returns a response body with the following structure:

JSON

```
[
  {
    "role": string,
    "attribute": number,
    "attribute_value": string
  }
]

Example:
[
  {
    "role": "Developer",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Administrator",
    "attribute": 17164,
    "attribute_value": "2"
  },
  {
    "role": "Operator",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Monitor",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Event Viewer",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Dashboard Viewer",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Restricted",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Allow to view active directory user information",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Allow to edit Dashboards",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Allow to view packet details",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Limit Data Resolution to only \"automatic\"",
    "attribute": null,
    "attribute_value": null
  }
]
```

Property Name	Type	Description	Notes
GetRadiusRoleMapping	*<array of <object>>*	List of all roles and permissions along with their attribut's ID and attributes value	
GetRadiusRoleMapping[item]	*<object>*		
GetRadiusRoleMapping[item].role	*<string>*	Name of role or permission	
GetRadiusRoleMapping[item].attribute	*<number>*	Attribute ID	
GetRadiusRoleMapping[item]. attribute_value	*<string>*	Attribute value	

Remote authentication: Set radius roles and s attribute mapping

Sets the roles and permissions with attribut's ID and attributes value.

```
POST https://{device}/api/mgmt.remote_authentication/1.0/radius/role_mapping
```

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

JSON

```json
[
  {
    "role": string,
    "attribute": number,
    "attribute_value": string
  }
]

Example:
[
  {
    "role": "Administrator",
    "attribute": 17164,
    "attribute_value": "2"
  },
  {
    "role": "Limit Data Resolution to only \"automatic\"",
    "attribute": 17164,
    "attribute_value": "7"
  }
]
```

Property Name	Type	Description	Notes
SetRadiusRoleMapping	*<array of <object>>*	Required fields to set the roles and permissions with attribut's ID and attributes value	
SetRadiusRoleMapping[item]	*<object>*		
SetRadiusRoleMapping[item].role	*<string>*	Name of role or permission	
SetRadiusRoleMapping[item].attribute	*<number>*	Attribute ID	
SetRadiusRoleMapping[item]. attribute_value	*<string>*	Attribute value	

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Add tacacs server

Adds new tacacs server.

```
POST https://{device}/api/mgmt.remote_authentication/1.0/tacacs/server
```

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

JSON

```
{
  "address": string,
  "port": number,
  "secret": string,
  "protocol": string,
  "client_port": number,
  "enabled": boolean
}

Example:
{
  "address": "10.70.45.14",
  "port": 1812,
  "secret": "secretKey",
  "protocol": "PAP",
  "client_port": "70",
  "enabled": true
}
```

Property Name	Type	Description	Notes
AddTacacsServer	*<object>*	Required fields to add a new tacacs server	
AddTacacsServer.address	*<string>*	Server IP	
AddTacacsServer.port	*<number>*	Server Port	
AddTacacsServer.secret	*<string>*	Secret key	
AddTacacsServer.protocol	*<string>*	Protocol	
AddTacacsServer.client_port	*<number>*	client port	
AddTacacsServer.enabled	*<boolean>*		

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: List all tacacs servers

Returns a list of all tacacs servers.

GET https://{device}/api/mgmt.remote_authentication/1.0/tacacs/server

Authorization

This request requires authorization.

Response Body

On success, the server returns a response body with the following structure:

JSON

```
[
  {
    "server_id": number,
    "port": number,
    "order": number,
    "address": string,
    "protocol": string,
    "client_port": string,
    "secret": string,
    "enabled": number
  }
]

Example:
[
  {
    "server_id": 1,
    "port": 1812,
    "order": 0,
    "address": "10.70.45.13",
    "protocol": "PAP",
    "client_port": "8080",
    "secret": "****************",
    "enabled": 1
  },
  {
    "server_id": 2,
    "port": 1812,
    "order": 1,
    "address": "10.70.45.14",
    "protocol": "PAP",
    "client_port": "7000",
    "secret": "****************",
    "enabled": 1
  }
]
```

Property Name	Type	Description	Notes
GetAllTacacsServer	<array of <object>>	List of all tacacs servers	
GetAllTacacsServer[item]	<object>		
GetAllTacacsServer[item].server_id	<number>	Unique ID denoting each tacacs server	
GetAllTacacsServer[item].port	<number>	Server Port	
GetAllTacacsServer[item].order	<number>	Index of tacacs servers in all radius server's order list	
GetAllTacacsServer[item].address	<string>	Server IP	
GetAllTacacsServer[item].protocol	<string>	Server protocol	
GetAllTacacsServer[item].client_port	<string>	client port	
GetAllTacacsServer[item].secret	<string>	Secret key passed while adding server, it will be cloaked(instead of text "*" will be shown) to reveal it pass "uncloak" argument in API's URL	
GetAllTacacsServer[item].enabled	<number>	1 denoting to true and 0 to false	

Remote authentication: Update an existing tacacs server

Updates a tacacs server having server ID passed in request URL.

PUT https://{device}/api/mgmt.remote_authentication/1.0/tacacs/server/<id>

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

JSON

```
{
  "address": string,
  "port": number,
  "secret": string,
  "client_port": number,
  "protocol": string,
  "enabled": boolean
}

Example:
{
  "address": "10.70.45.14",
  "port": 1812,
  "secret": "secretKey",
  "client_port": 7000,
  "protocol": "PAP",
  "enabled": true
}
```

Property Name	Type	Description	Notes
UpdateTacacsServer	*<object>*	Required fields to updatea a tacacs server	
UpdateTacacsServer.address	*<string>*	Server IP	
UpdateTacacsServer.port	*<number>*	Server Port	
UpdateTacacsServer.secret	*<string>*	Secret key	
UpdateTacacsServer.client_port	*<number>*	client port	
UpdateTacacsServer.protocol	*<string>*	Protocol	
UpdateTacacsServer.enabled	*<boolean>*		

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Delete a tacacs server by ID

Deletes a tacacs server having server ID passed in request URL.

    DELETE https://{device}/api/mgmt.remote_authentication/1.0/tacacs/server/<id>

Authorization

This request requires authorization.

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Delete all tacacs servers

Deletes all radius servers.

    DELETE https://{device}/api/mgmt.remote_authentication/1.0/tacacs/server

Authorization

This request requires authorization.

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Reorder tacacs server

This method can be used or multiple scenarios, mainly if user wants to change the order of existing servers, in-order to change the order first use GET API to list all tacacs servers (pass "uncloak" argument to reveal secret else it cloaked keys won't work)then change the server in that returned at which ever order you want to have and then pass the same list of servers as body to this request, internally this API will be deleting all existing tacacs servers and inserting one by one passed in the body .

    POST https://{device}/api/mgmt.remote_authentication/1.0/tacacs/reorder

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

```json
[
  {
    "port": number,
    "address": string,
    "protocol": string,
    "client_port": number,
    "secret": string,
    "enabled": number
  }
]

Example:
[
  {
    "server_id": 1,
    "port": 1812,
    "order": 0,
    "address": "10.70.45.13",
    "protocol": "PAP",
    "client_port": 710,
    "secret": "check",
    "enabled": 1
  },
  {
    "server_id": 2,
    "port": 1812,
    "order": 1,
    "address": "10.70.45.14",
    "protocol": "PAP",
    "client_port": 700,
    "secret": "test",
    "enabled": 1
  }
]
```

Property Name	Type	Description	Notes
ReorderTacacsServers	*<array of <object>>*	List of tacacs servers	
ReorderTacacsServers[item]	*<object>*		
ReorderTacacsServers[item].port	*<number>*	Server Port	
ReorderTacacsServers[item].address	*<string>*	Server IP	
ReorderTacacsServers[item].protocol	*<string>*	Server protocol	
ReorderTacacsServers[item].client_port	*<number>*	client port	
ReorderTacacsServers[item].secret	*<string>*	Secret key	
ReorderTacacsServers[item].enabled	*<number>*	1 denoting to true and 0 to false	

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Get tacacs server's settings

Returns connection timeout time in seconds along with authorization service for any tacacs server.

GET https://{device}/api/mgmt.remote_authentication/1.0/tacacs/settings

Authorization

This request requires authorization.

Response Body

On success, the server returns a response body with the following structure:

JSON

```
{
  "connection_timeout": number,
  "auth_service": string
}

Example:
{
  "connection_timeout": 5,
  "auth_service": "serviceName"
}
```

Property Name	Type	Description	Notes
GetTacacsSettings	*<object>*	Dictionary showing connection timeout and auth_service	
GetTacacsSettings.connection_timeout	*<number>*	connection timeout time in seconds	
GetTacacsSettings.auth_service	*<string>*	authorization service name	

Remote authentication: Set tacacs server's settings

Sets connection timeout time in seconds and authorization service for any tacacs server. User needs to pass only the one which needs to be set no need to pass both unless trying to set both

POST https://{device}/api/mgmt.remote_authentication/1.0/tacacs/connection

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

JSON

```
{
  "connection_timeout": number,
  "auth_service": string
}

Example:
{
  "connection_timeout": 5,
  "auth_service": "serviceName"
}
```

Property Name	Type	Description	Notes
SetTacacsSettings	*<object>*	connection timeout and authorization service name	
SetTacacsSettings.connection_timeout	*<number>*	connection timeout time in seconds	
SetTacacsSettings.auth_service	*<string>*	authorization service name	

Response Body

On success, the server does not provide any body in the responses.

Remote authentication: Get tacacs roles and s attribute mapping

Returns all roles and permissions along with their attribut's name and attributes value for tacacs servers.

GET https://{device}/api/mgmt.remote_authentication/1.0/tacacs/role_mapping

Authorization

This request requires authorization.

Response Body

On success, the server returns a response body with the following structure:

JSON

```
[
  {
    "role": string,
    "attribute": string,
    "attribute_value": string
  }
]

Example:
[
  {
    "role": "Developer",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Administrator",
    "attribute": 17164,
    "attribute_value": "2"
  },
  {
    "role": "Operator",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Monitor",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Event Viewer",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Dashboard Viewer",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Restricted",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Allow to view active directory user information",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Allow to edit Dashboards",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Allow to view packet details",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Limit Data Resolution to only \"automatic\"",
    "attribute": null,
    "attribute_value": null
  },
  {
    "role": "Traffic Filter",
    "attribute": null,
    "attribute_value": null
  }
]
```

Property Name	Type	Description	Notes
GetTacacsRoleMapping	*<array of <object>>*	List of all roles and permissions along with their attribut's name and attributes value	
GetTacacsRoleMapping[item]	*<object>*		
GetTacacsRoleMapping[item].role	*<string>*	Name of role or permission	
GetTacacsRoleMapping[item].attribute	*<string>*	Attribute name	
GetTacacsRoleMapping[item].attribute_value	*<string>*	Attribute value	

Remote authentication: Set tacacs roles and s attribute mapping

Sets the roles and permissions with attribut's ID and attributes value.

POST https://{device}/api/mgmt.remote_authentication/1.0/tacacs/role_mapping

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

```
JSON

[
  {
    "role": string,
    "attribute": string,
    "attribute_value": string
  }
]

Example:
[
  {
    "role": "Administrator",
    "attribute": "cascade",
    "attribute_value": "2"
  },
  {
    "role": "Limit Data Resolution to only \"automatic\"",
    "attribute": "class",
    "attribute_value": "7"
  }
]
```

Property Name	Type	Description	Notes
SetTacacsRoleMapping	*<array of <object>>*	Required fields to set the roles and permissions with attribut's name and attributes value	
SetTacacsRoleMapping[item]	*<object>*		
SetTacacsRoleMapping[item].role	*<string>*	Name of role or permission	
SetTacacsRoleMapping[item].attribute	*<string>*	Attribute name	
SetTacacsRoleMapping[item]. attribute_value	*<string>*	Attribute value	

Response Body

On success, the server does not provide any body in the responses.

Error Codes

In the event that an error occurs while processing a request, the server will respond with appropriate HTTP status code and additional information in the response body:

```
{
    "error_id":   "{error identifier}",
    "error_text": "{error description}",
    "error_info": {error specific data structure, optional}
}
```

The table below lists the possible errors and the associated HTTP status codes that may returned.

Error ID	HTTP Status	Comments
BAD_REQUEST	400	Invalid argument.
AUTH_REQUIRED	401	Authentication required.
AUTH_INVALID_CREDENTIALS	401	Make sure the user name is correct and type your password again. Be sure to use the correct case for the user name and password.
INTERNAL_ERROR	500	Internal error.