



Forward audit logs to syslog/splunk servers

REST API reference

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Forward audit logs to syslog/splunk servers

Security audit destinations endpoint overview

Overview

This API controls the forwarding of audit log information to remote syslog/splunk servers. Multiple destinations can be configured and all audit records are forwarded to all destinations.

A GET operation retrieves information about remote syslog/splunk server destinations. A POST operation creates a remote syslog/splunk server destination. A GET operation on `/security/audit/destinations/{address}/{port}` retrieves information about the syslog/splunk server destination given its address and port number. A PATCH operation on `/security/audit/destinations/{address}/{port}` updates information about the syslog/splunk server destination given its address and port number. A DELETE operation on `/security/audit/destinations/{address}/{port}` deletes a syslog/splunk server destination given its address and port number.

Overview of fields used for creating a remote syslog/splunk destination

The fields used for creating a remote syslog/splunk destination fall into the following categories

Required properties

All of the following fields are required for creating a remote syslog/splunk destination

- `address`

Optional properties

All of the following fields are optional for creating a remote syslog/splunk destination

- `port`
- `ipspace`
- `protocol`
- `facility`
- `verify_server`
- `message_format` (Can be either "legacy_netapp" or "rfc_5424")
- `timestamp_format_override` (Can be either "no_override", "rfc_3164", "iso_8601_utc" or "iso_8601_local_time")
- `hostname_format_override` (Can be either "no_override", "fqdn" or "hostname_only") +

Examples

Retrieving remote syslog/splunk server destinations

The following example shows remote syslog/splunk server destinations

```
# The API:
/api/security/audit/destinations

# The call:
curl -X GET "https://<cluster-ip>/api/security/audit/destinations"

# The response:
{
  "records": [
    {
      "address": "1.1.1.1",
      "port": 514,
      "_links": {
        "self": {
          "href": "/api/security/audit/destinations/1.1.1.1/514"
        }
      }
    }
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/security/audit/destinations"
    }
  }
}
```

Creating remote syslog/splunk server destinations

The following example creates remote syslog/splunk server destinations.

```
# The API:
/api/security/audit/destinations

# The call:
curl -X POST "https://<cluster-
ip>/api/security/audit/destinations?force=true" -d '{ "address":
"1.1.1.1", "port": 514, "protocol": "udp_unencrypted", "facility":
"kern"}'
```

Retrieving a remote syslog/splunk server destination given its destination address and port number

The following example retrieves a remote syslog/splunk server destination given its destination address and port number.

```
# The API:
/api/security/audit/destinations/{address}/{port}

# The call:
curl -X GET "https://<cluster-
ip>/api/security/audit/destinations/1.1.1.1/514"

# The response:
{
  "address": "1.1.1.1",
  "port": 514,
  "ipspace": {
    "name": "Default",
    "uuid": "a97a3549-f7ae-11ec-b6bc-005056a7c8ff"
  },
  "protocol": "udp_unencrypted",
  "facility": "kern",
  "verify_server": false,
  "message_format": "legacy_netapp",
  "timestamp_format_override": "no_override",
  "hostname_format_override": "no_override",
  "_links": {
    "self": {
      "href": "/api/security/audit/destinations/1.1.1.1/514"
    }
  }
}
```

Updating a remote syslog/splunk server destination given its destination address and port number

The following example updates a remote syslog/splunk server destination configuration given its destination address and port number.

```
# The API:
/api/security/audit/destinations/{address}/{port}
```

```
# The call:
curl -X PATCH "https://<cluster-
ip>/api/security/audit/destinations/1.1.1.1/514" -d '{"facility":
"user"}'
```

Deleting a remote syslog/splunk server destination given its destination address and port number

The following example deletes a remote syslog/splunk server destination configuration given its destination address and port number.

```
# The API:
/api/security/audit/destinations/{address}/{port}
```

```
# The call:
curl -X DELETE "https://<cluster-
ip>/api/security/audit/destinations/1.1.1.1/514"
```

Define a remote syslog or splunk server to receive audit information

GET /security/audit/destinations

Introduced In: 9.6

Defines a remote syslog/splunk server for sending audit information to.

Parameters

Name	Type	In	Required	Description
port	integer	query	False	Filter by port
verify_server	boolean	query	False	Filter by verify_server

Name	Type	In	Required	Description
ipspace.name	string	query	False	Filter by ipspace.name • Introduced in: 9.12
ipspace.uuid	string	query	False	Filter by ipspace.uuid • Introduced in: 9.12
hostname_format_override	string	query	False	Filter by hostname_format_override • Introduced in: 9.13
address	string	query	False	Filter by address
protocol	string	query	False	Filter by protocol
facility	string	query	False	Filter by facility
timestamp_format_override	string	query	False	Filter by timestamp_format_override • Introduced in: 9.13
message_format	string	query	False	Filter by message_format • Introduced in: 9.13
order_by	array[string]	query	False	Order results by specified fields and optional [asc
desc] direction. Default direction is 'asc' for ascending.	fields	array[string]	query	False
Specify the fields to return.	max_records	integer	query	False

Name	Type	In	Required	Description
Limit the number of records returned.	return_timeout	integer	query	False
The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0	return_records	boolean	query	False

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of records
records	array[security_audit_log_forward]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "address": "1.1.1.1",
      "facility": "string",
      "hostname_format_override": "string",
      "ipspace": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "Default",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "message_format": "string",
      "port": 514,
      "protocol": "string",
      "timestamp_format_override": "string"
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

ipspace

Name	Type	Description
_links	_links	
name	string	IPspace name
uuid	string	IPspace UUID

security_audit_log_forward

Name	Type	Description
address	string	Destination syslog splunk host to forward audit records to. This can be an IP address (IPv4 IPv6) or a hostname.
facility	string	This is the standard Syslog Facility value that is used when sending audit records to a remote server.
hostname_format_override	string	Syslog Hostname Format Override
ipspace	ipspace	

Name	Type	Description
message_format	string	Syslog message format to be used. legacy_netapp format (variation of RFC-3164) is default message format.
port	integer	Destination Port. The default port depends on the protocol chosen: For un-encrypted destinations the default port is 514. For encrypted destinations the default port is 6514.
protocol	string	Log forwarding protocol
timestamp_format_override	string	Syslog Timestamp Format Override.
verify_server	boolean	This is only applicable when the protocol is tcp_encrypted. This controls whether the remote server's certificate is validated. Setting "verify_server" to "true" will enforce validation of remote server's certificate. Setting "verify_server" to "false" will not enforce validation of remote server's certificate.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message

Name	Type	Description
target	string	The target parameter that caused the error.

Define the remote syslog or splunk server information

POST /security/audit/destinations

Introduced In: 9.6

Configures remote syslog/splunk server information.

Required properties

All of the following fields are required for creating a remote syslog/splunk destination

- address

Optional properties

All of the following fields are optional for creating a remote syslog/splunk destination

- port (1 - 65535)
- ipspace
- protocol
- facility
- verify_server (Can only be "true" when protocol is "tcp_encrypted")
- message_format (Can be either "legacy-netapp" or "rfc-5424")
- timestamp_format_override (Can be either "no-override", "rfc-3164", "iso-8601-utc" or "iso-8601-local-time")
- hostname_format_override (Can be either "no-override", "fqdn" or "hostname-only")

Parameters

Name	Type	In	Required	Description
force	boolean	query	False	Skip the Connectivity Test • Default value:

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. • Default value: 1 • Max value: 120 • Min value: 0
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
address	string	Destination syslog splunk host to forward audit records to. This can be an IP address (IPv4 IPv6) or a hostname.

Name	Type	Description
facility	string	This is the standard Syslog Facility value that is used when sending audit records to a remote server.
hostname_format_override	string	Syslog Hostname Format Override
ipspace	ipspace	
message_format	string	Syslog message format to be used. legacy_netapp format (variation of RFC-3164) is default message format.
port	integer	Destination Port. The default port depends on the protocol chosen: For un-encrypted destinations the default port is 514. For encrypted destinations the default port is 6514.
protocol	string	Log forwarding protocol
timestamp_format_override	string	Syslog Timestamp Format Override.
verify_server	boolean	This is only applicable when the protocol is tcp_encrypted. This controls whether the remote server's certificate is validated. Setting "verify_server" to "true" will enforce validation of remote server's certificate. Setting "verify_server" to "false" will not enforce validation of remote server's certificate.

Example request

```
{
  "address": "1.1.1.1",
  "facility": "string",
  "hostname_format_override": "string",
  "ipspace": {
    "name": "Default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "message_format": "string",
  "port": 514,
  "protocol": "string",
  "timestamp_format_override": "string"
}
```

Response

Status: 202, Accepted

Name	Type	Description
num_records	integer	Number of records
records	array[security_audit_log_forward]	

Example response

```
{
  "num_records": 1,
  "records": [
    {
      "address": "1.1.1.1",
      "facility": "string",
      "hostname_format_override": "string",
      "ipspace": {
        "name": "Default",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "message_format": "string",
      "port": 514,
      "protocol": "string",
      "timestamp_format_override": "string"
    }
  ]
}
```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Response

Status: 201, Created

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
15661	The object specified could not be found
13114	Internal error
13115	Invalid input

Error Code	Description
4522285	Server verification cannot be enabled because it requires a protocol with encryption. Encryption can be selected using the protocol field.
9240603	Cannot ping destination host. Verify connectivity to desired host or skip the connectivity check with the -force parameter.
327698	Failed to create RPC client to destination host
9240609	Cannot connect to destination host.
9240604	Cannot resolve the destination host.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

ipspace

Name	Type	Description
name	string	IPspace name
uuid	string	IPspace UUID

security_audit_log_forward

Name	Type	Description
address	string	Destination syslog splunk host to forward audit records to. This can be an IP address (IPv4 IPv6) or a hostname.
facility	string	This is the standard Syslog Facility value that is used when sending audit records to a remote server.
hostname_format_override	string	Syslog Hostname Format Override
ipspace	ipspace	
message_format	string	Syslog message format to be used. legacy_netapp format (variation of RFC-3164) is default message format.
port	integer	Destination Port. The default port depends on the protocol chosen: For un-encrypted destinations the default port is 514. For encrypted destinations the default port is 6514.
protocol	string	Log forwarding protocol

Name	Type	Description
timestamp_format_override	string	Syslog Timestamp Format Override.
verify_server	boolean	This is only applicable when the protocol is tcp_encrypted. This controls whether the remote server's certificate is validated. Setting "verify_server" to "true" will enforce validation of remote server's certificate. Setting "verify_server" to "false" will not enforce validation of remote server's certificate.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete the remote syslog or splunk server information

DELETE /security/audit/destinations/{address}/{port}

Introduced In: 9.6

Deletes remote syslog/splunk server information.

Parameters

Name	Type	In	Required	Description
address	string	path	True	IP address of remote syslog/splunk server.
port	integer	path	True	Port number of remote syslog/splunk server.

Response

Status: 200, Ok

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve the remote syslog or splunk server information

GET /security/audit/destinations/{address}/{port}

Introduced In: 9.6

Defines a remote syslog/splunk server for sending audit information to.

Parameters

Name	Type	In	Required	Description
address	string	path	True	IP address of remote syslog/splunk server.
port	integer	path	True	Port number of remote syslog/splunk server.

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
address	string	Destination syslog splunk host to forward audit records to. This can be an IP address (IPv4 IPv6) or a hostname.
facility	string	This is the standard Syslog Facility value that is used when sending audit records to a remote server.
hostname_format_override	string	Syslog Hostname Format Override
ipspace	ipspace	
message_format	string	Syslog message format to be used. legacy_netapp format (variation of RFC-3164) is default message format.
port	integer	Destination Port. The default port depends on the protocol chosen: For un-encrypted destinations the default port is 514. For encrypted destinations the default port is 6514.
protocol	string	Log forwarding protocol
timestamp_format_override	string	Syslog Timestamp Format Override.

Name	Type	Description
verify_server	boolean	This is only applicable when the protocol is tcp_encrypted. This controls whether the remote server's certificate is validated. Setting "verify_server" to "true" will enforce validation of remote server's certificate. Setting "verify_server" to "false" will not enforce validation of remote server's certificate.

Example response

```
{
  "address": "1.1.1.1",
  "facility": "string",
  "hostname_format_override": "string",
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "Default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "message_format": "string",
  "port": 514,
  "protocol": "string",
  "timestamp_format_override": "string"
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

ipspace

Name	Type	Description
_links	_links	
name	string	IPspace name
uuid	string	IPspace UUID

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update the remote syslog or splunk server information

PATCH /security/audit/destinations/{address}/{port}

Introduced In: 9.6

Updates remote syslog/splunk server information.

Parameters

Name	Type	In	Required	Description
address	string	path	True	IP address of remote syslog/splunk server.
port	integer	path	True	Port number of remote syslog/splunk server.

Request Body

Name	Type	Description
facility	string	This is the standard Syslog Facility value that is used when sending audit records to a remote server.
hostname_format_override	string	Syslog Hostname Format Override
ipspace	ipspace	
message_format	string	Syslog message format to be used. legacy_netapp format (variation of RFC-3164) is default message format.
timestamp_format_override	string	Syslog Timestamp Format Override.
verify_server	boolean	This is only applicable when the protocol is tcp_encrypted. This controls whether the remote server's certificate is validated. Setting "verify_server" to "true" will enforce validation of remote server's certificate. Setting "verify_server" to "false" will not enforce validation of remote server's certificate.

Example request

```
{
  "facility": "string",
  "hostname_format_override": "string",
  "ipspace": {
    "name": "Default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "message_format": "string",
  "timestamp_format_override": "string"
}
```

Response

Status: 200, Ok

Name	Type	Description
facility	string	This is the standard Syslog Facility value that is used when sending audit records to a remote server.
hostname_format_override	string	Syslog Hostname Format Override
ipspace	ipspace	
message_format	string	Syslog message format to be used. legacy_netapp format (variation of RFC-3164) is default message format.
timestamp_format_override	string	Syslog Timestamp Format Override.
verify_server	boolean	This is only applicable when the protocol is tcp_encrypted. This controls whether the remote server's certificate is validated. Setting "verify_server" to "true" will enforce validation of remote server's certificate. Setting "verify_server" to "false" will not enforce validation of remote server's certificate.

Example response

```
{
  "facility": "string",
  "hostname_format_override": "string",
  "ipspace": {
    "name": "Default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "message_format": "string",
  "timestamp_format_override": "string"
}
```

Error

Status: Default, Default

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

ipspace

Name	Type	Description
name	string	IPspace name
uuid	string	IPspace UUID

security_audit_log_forward

Name	Type	Description
facility	string	This is the standard Syslog Facility value that is used when sending audit records to a remote server.
hostname_format_override	string	Syslog Hostname Format Override
ipspace	ipspace	
message_format	string	Syslog message format to be used. legacy_netapp format (variation of RFC-3164) is default message format.
timestamp_format_override	string	Syslog Timestamp Format Override.
verify_server	boolean	This is only applicable when the protocol is tcp_encrypted. This controls whether the remote server's certificate is validated. Setting "verify_server" to "true" will enforce validation of remote server's certificate. Setting "verify_server" to "false" will not enforce validation of remote server's certificate.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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