



Manage NAS audit configurations

REST API reference

NetApp

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Manage NAS audit configurations

Manage NAS audit configurations

Overview

Auditing for NAS events is a security measure that enables you to track and log certain CIFS and NFS events on storage virtual machines (SVMs). This helps you track potential security problems and provides evidence of any security breaches.

Examples

Creating an audit entry with log rotation size and log retention count

To create an audit entry with log rotation size and log retention count, use the following API. Note the `return_records=true` query parameter is used to obtain the newly created entry in the response.

```
# The API:  
POST /api/protocols/audit/  
  
# The call:  
curl -X POST "https://<mgmt-ip>/api/protocols/audit" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"enabled\": true, \"events\": { \"async_delete\": false, \"audit_policy_change\": true, \"authorization_policy\": false, \"cap_staging\": false, \"cifs_logon_logoff\": true, \"file_operations\": true, \"file_share\": false, \"security_group\": false, \"user_account\": false }, \"guarantee\": true, \"log\": { \"format\": \"evtx\", \"retention\": { \"count\": 10 }, \"rotation\": { \"size\": 2048000 } }, \"log_path\": \"/\", \"svm\": { \"name\": \"vs1\", \"uuid\": \"ec650e97-156e-11e9-abcb-005056bbd0bf\" } }"  
  
# The response:  
{  
  "records": [  
    {  
      "svm": {  
        "uuid": "ec650e97-156e-11e9-abcb-005056bbd0bf",  
        "name": "vs1"  
      },  
      "enabled": true,  
      "events": {  
        "authorization_policy": false,  
        "cap_staging": false,  
        "cifs_logon_logoff": true,  
        "file_operations": true,  
        "file_share": false,  
        "user_account": false,  
        "audit_policy_change": true,  
        "log_path": "/  
      }  
    }  
  ]  
}
```

```

    "cap_staging": false,
    "cifs_logon_logoff": true,
    "file_operations": true,
    "file_share": false,
    "security_group": false,
    "user_account": false,
    "audit_policy_change": true,
    "async_delete": false
  },
  "log": {
    "format": "evtx",
    "rotation": {
      "size": 2048000
    },
    "retention": {
      "count": 10,
      "duration": "0s"
    }
  },
  "log_path": "/",
  "guarantee": true
}
],
"num_records": 1
}

```

Creating an audit entry with log rotation schedule and log retention duration

To create an audit entry with log rotation schedule and log retention duration, use the following API. Note that the `return_records=true` query parameter is used to obtain the newly created entry in the response.

```

# The API:
POST /api/protocols/audit/

# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/audit" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"enabled\": false, \"events\": { \"async_delete\": false, \"audit_policy_change\": true, \"authorization_policy\": false, \"cap_staging\": false, \"cifs_logon_logoff\": true, \"file_operations\": true, \"file_share\": false, \"security_group\": false, \"user_account\": false }, \"guarantee\": true, \"log\": { \"format\": \"xml\", \"retention\": { \"duration\": \"P4DT12H30M5S\" }, \"rotation\": { \"schedule\": { \"days\": [ \"Monday\", \"Tuesday\", \"Wednesday\", \"Thursday\", \"Friday\" ], \"hours\": 12, \"minutes\": 30, \"seconds\": 5, \"type\": \"Daily\" } } } }"

```

```

\"days\": [1, 5, 10, 15], \"hours\": [0, 1, 6, 12, 18, 23], \"minutes\":
[10, 15, 30, 45, 59], \"months\": [0], \"weekdays\": [0, 2, 5] } } },
\"log_path\": \"/\", \"svm\": { \"name\": \"vs3\", \"uuid\": \"a8d64674-
13fc-11e9-87b1-005056a7ae7e\" } }"

```

The response:

```

{
"records": [
{
  "svm": {
    "uuid": "a8d64674-13fc-11e9-87b1-005056a7ae7e",
    "name": "vs3"
  },
  "enabled": true,
  "events": {
    "authorization_policy": false,
    "cap_staging": false,
    "cifs_logon_logoff": true,
    "file_operations": true,
    "file_share": false,
    "security_group": false,
    "user_account": false,
    "audit_policy_change": true,
    "async_delete": false
  },
  "log": {
    "format": "xml",
    "rotation": {
      "schedule": {
        "minutes": [
          10,
          15,
          30,
          45,
          59
        ],
        "hours": [
          0,
          1,
          6,
          12,
          18,
          23
        ],
        "weekdays": [
          0,

```

```

        2,
        5
    ],
    "days": [
        1,
        5,
        10,
        15
    ],
    "months": [
        0
    ]
},
"retention": {
    "count": 0,
    "duration": "P4DT12H30M5S"
},
"log_path": "/",
"guarantee": true
}
],
"num_records": 1
}

```

Retrieving an audit configuration for all SVMs in the cluster

```

# The API:
GET /api/protocols/audit/

# The call:
curl -X GET "https://<mgmt-
ip>/api/protocols/audit?fields=*&return_records=true&return_timeout=15" -H
"accept: application/json"

# The response:
{
"records": [
{
    "svm": {
        "uuid": "ec650e97-156e-11e9-abcb-005056bb0bf",

```

```
        "name": "vs1"
    },
    "enabled": true,
    "events": {
        "authorization_policy": false,
        "cap_staging": false,
        "cifs_logon_logoff": true,
        "file_operations": true,
        "file_share": false,
        "security_group": false,
        "user_account": false,
        "audit_policy_change": true,
        "async_delete": false
    },
    "log": {
        "format": "evtx",
        "rotation": {
            "size": 2048000
        },
        "retention": {
            "count": 10,
            "duration": "0s"
        }
    },
    "log_path": "/",
    "guarantee": true,
    "charge_qos": false
},
{
    "svm": {
        "uuid": "a8d64674-13fc-11e9-87b1-005056a7ae7e",
        "name": "vs3"
    },
    "enabled": true,
    "events": {
        "authorization_policy": false,
        "cap_staging": false,
        "cifs_logon_logoff": true,
        "file_operations": true,
        "file_share": false,
        "security_group": false,
        "user_account": false,
        "audit_policy_change": true,
        "async_delete": false
    },
    "log": {
```

```
  "format": "xml",
  "rotation": {
    "schedule": {
      "minutes": [
        10,
        15,
        30,
        45,
        59
      ],
      "hours": [
        0,
        1,
        6,
        12,
        18,
        23
      ],
      "weekdays": [
        0,
        2,
        5
      ],
      "days": [
        1,
        5,
        10,
        15
      ],
      "months": [
        0
      ]
    }
  },
  "retention": {
    "count": 0,
    "duration": "P4DT12H30M5S"
  },
  "log_path": "/",
  "guarantee": true,
  "charge_qos": false
}
],
"num_records": 2
}
```

Retrieving specific entries with event list as cifs-logon-logoff, file-ops = true for an SVM

The configuration returned is identified by the events in the list of audit configurations for an SVM.

```
# The API:  
GET /api/protocols/audit/  
  
# The call:  
curl -X GET "https://<mgmt-  
ip>/api/protocols/audit?events.file_operations=true&events.cifs_logon_logo  
ff=true&return_records=true&return_timeout=15" -H "accept:  
application/json"  
  
# The response:  
{  
  "records": [  
    {  
      "svm": {  
        "uuid": "ec650e97-156e-11e9-abcb-005056bb0bf",  
        "name": "vs1"  
      },  
      "events": {  
        "cifs_logon_logoff": true,  
        "file_operations": true  
      }  
    },  
    {  
      "svm": {  
        "uuid": "a8d64674-13fc-11e9-87b1-005056a7ae7e",  
        "name": "vs3"  
      },  
      "events": {  
        "cifs_logon_logoff": true,  
        "file_operations": true  
      }  
    }  
  ],  
  "num_records": 2  
}
```

Retrieving a specific audit configuration for an SVM

The configuration returned is identified by the UUID of its SVM.

```

# The API:
GET /api/protocols/audit/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/audit/ec650e97-156e-11e9-
abcb-005056bbd0bf" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "ec650e97-156e-11e9-abcb-005056bbd0bf",
    "name": "vs1"
  },
  "enabled": true,
  "events": {
    "authorization_policy": false,
    "cap_staging": false,
    "cifs_logon_logoff": true,
    "file_operations": true,
    "file_share": false,
    "security_group": false,
    "user_account": false,
    "audit_policy_change": true,
    "async_delete": false
  },
  "log": {
    "format": "evtx",
    "rotation": {
      "size": 2048000
    },
    "retention": {
      "count": 10,
      "duration": "0s"
    }
  },
  "log_path": "/",
  "guarantee": true,
  "charge_qos": false
}

```

Updating a specific audit configuration of an SVM

The configuration is identified by the UUID of its SVM and the provided information is updated.

```
# The API:  
PATCH /api/protocols/audit/{svm.uuid}  
  
# The call:  
curl -X PATCH "https://<mgmt-ip>/api/protocols/audit/ec650e97-156e-11e9-  
abcb-005056bb0bf" -H "accept: application/json" -H "Content-Type:  
application/json" -d "{ \"enabled\": false}"  
  
# The response:  
{  
  "job": {  
    "uuid": "9938d743-d566-11eb-ad60-0050568e5902",  
    "_links": {  
      "self": {  
        "href": "/api/cluster/jobs/9938d743-d566-11eb-ad60-0050568e5902"  
      }  
    }  
  }  
}
```

Deleting a specific audit configuration for an SVM

The entry to be deleted is identified by the UUID of its SVM.

```

# The API:
DELETE /api/protocols/audit/{svm.uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/audit/ec650e97-156e-11e9-
abcb-005056bbd0bf?force=true" -H "accept: application/json"

# The response:
{
  "job": {
    "uuid": "9938d743-d566-11eb-ad60-0050568e5902",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/9938d743-d566-11eb-ad60-0050568e5902"
      }
    }
  }
}

```

Retrieve audit configurations

GET /protocols/audit

Introduced In: 9.6

Retrieves audit configurations.

Related ONTAP commands

- vserver audit show

Learn more

- [DOC /protocols/audit](#)

Parameters

| Name | Type | In | Required | Description |
|-------------------|---------|-------|----------|-----------------------------|
| log.format | string | query | False | Filter by log.format |
| log.rotation.size | integer | query | False | Filter by log.rotation.size |

| Name | Type | In | Required | Description |
|--------------------------------|---------|-------|----------|---|
| log.rotation.schedule.weekdays | integer | query | False | Filter by log.rotation.schedule.weekdays <ul style="list-style-type: none"> • Max value: 6 • Min value: 0 |
| log.rotation.schedule.minutes | integer | query | False | Filter by log.rotation.schedule.minutes <ul style="list-style-type: none"> • Max value: 59 • Min value: 0 |
| log.rotation.schedule.days | integer | query | False | Filter by log.rotation.schedule.days <ul style="list-style-type: none"> • Max value: 31 • Min value: 1 |
| log.rotation.schedule.months | integer | query | False | Filter by log.rotation.schedule.months <ul style="list-style-type: none"> • Max value: 12 • Min value: 1 |
| log.rotation.schedule.hours | integer | query | False | Filter by log.rotation.schedule.hours <ul style="list-style-type: none"> • Max value: 23 • Min value: 0 |
| log.retention.count | integer | query | False | Filter by log.retention.count |
| log.retention.duration | string | query | False | Filter by log.retention.duration |
| guarantee | boolean | query | False | Filter by guarantee <ul style="list-style-type: none"> • Introduced in: 9.10 |

| Name | Type | In | Required | Description |
|-----------------------------|---------|-------|----------|--|
| charge_qos | boolean | query | False | Filter by charge_qos <ul style="list-style-type: none"> • Introduced in: 9.16 |
| enabled | boolean | query | False | Filter by enabled |
| log_path | string | query | False | Filter by log_path |
| svm.name | string | query | False | Filter by svm.name |
| svm.uuid | string | query | False | Filter by svm.uuid |
| events.security_group | boolean | query | False | Filter by events.security_group |
| events.authorization_policy | boolean | query | False | Filter by events.authorization_policy |
| events.async_delete | boolean | query | False | Filter by events.async_delete <ul style="list-style-type: none"> • Introduced in: 9.16 |
| events.audit_policy_change | boolean | query | False | Filter by events.audit_policy_change <ul style="list-style-type: none"> • Introduced in: 9.16 |
| events.cap_staging | boolean | query | False | Filter by events.cap_staging |
| events.user_account | boolean | query | False | Filter by events.user_account |
| events.cifs_logon_logoff | boolean | query | False | Filter by events.cifs_logon_logoff |
| events.file_share | boolean | query | False | Filter by events.file_share |

| Name | Type | In | Required | Description |
|------------------------|---------------|-------|----------|---|
| events.file_operations | boolean | query | False | Filter by events.file_operations |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| return_records | boolean | query | False | <p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> Default value: 1 |
| return_timeout | integer | query | False | <p>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.</p> <ul style="list-style-type: none"> Max value: 120 Min value: 0 Default value: 15 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|--------------------------------|-------------------|
| _links | _links | |
| num_records | integer | Number of records |
| records | array[audit] | |

Example response

```
{  
  "_links": {  
    "next": {  
      "href": "/api/resourcelink"  
    },  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "num_records": 1,  
  "records": [  
    {  
      "charge_qos": "",  
      "guarantee": "",  
      "log": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        },  
        "format": "string",  
        "retention": {  
          "duration": "P4DT12H30M5S"  
        },  
        "rotation": {  
          "schedule": {  
            "days": [  
              "integer"  
            ],  
            "hours": [  
              "integer"  
            ],  
            "minutes": [  
              "integer"  
            ],  
            "months": [  
              "integer"  
            ],  
            "weekdays": [  
              "integer"  
            ]  
          }  
        }  
      }  
    }  
  ]  
}
```

```

"log_path": "string",
"svm": [
    "_links": {
        "self": {
            "href": "/api/resourcelink"
        }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
]
}

```

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 | |

events

| Name | Type | Description |
|----------------------|---------|--|
| async_delete | boolean | Volume file async delete events |
| audit_policy_change | boolean | Audit policy change events |
| authorization_policy | boolean | Authorization policy change events |
| cap_staging | boolean | Central access policy staging events |
| cifs_logon_logoff | boolean | CIFS logon and logoff events |
| file_operations | boolean | File operation events |
| file_share | boolean | File share category events |
| security_group | boolean | Local security group management events |
| user_account | boolean | Local user account management events |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

retention

| Name | Type | Description |
|----------|---------|--|
| count | integer | Determines how many audit log files to retain before rotating the oldest log file out. This is mutually exclusive with duration. |
| duration | string | Specifies an ISO-8601 format date and time to retain the audit log file. The audit log files are deleted once they reach the specified date/time. This is mutually exclusive with count. |

audit_schedule

Rotates the audit logs based on a schedule by using the time-based rotation parameters in any combination. The rotation schedule is calculated by using all the time-related values.

| Name | Type | Description |
|----------|----------------|---|
| days | array[integer] | Specifies the day of the month schedule to rotate audit log. Leave empty for all. |
| hours | array[integer] | Specifies the hourly schedule to rotate audit log. Leave empty for all. |
| minutes | array[integer] | Specifies the minutes schedule to rotate the audit log. |
| months | array[integer] | Specifies the months schedule to rotate audit log. Leave empty for all. |
| weekdays | array[integer] | Specifies the weekdays schedule to rotate audit log. Leave empty for all. |

rotation

Audit event log files are rotated when they reach a configured threshold log size or are on a configured schedule. When an event log file is rotated, the scheduled consolidation task first renames the active converted file to a time-stamped archive file, and then creates a new active converted event log file.

| Name | Type | Description |
|----------|--------------------------------|--|
| now | boolean | Manually rotates the audit logs. Optional in PATCH only. Not available in POST. |
| schedule | audit_schedule | Rotates the audit logs based on a schedule by using the time-based rotation parameters in any combination. The rotation schedule is calculated by using all the time-related values. |
| size | integer | Rotates logs based on log size in bytes. |

log

| Name | Type | Description |
|-----------|---------------------------|--|
| _links | _links | |
| format | string | <p>The format in which the logs are generated by consolidation process. Possible values are:</p> <ul style="list-style-type: none"> • xml - Data ONTAP-specific XML log format • evtx - Microsoft Windows EVTX log format <ul style="list-style-type: none"> ◦ Default value: 1 ◦ enum: ["xml", "evtx"] ◦ Introduced in: 9.6 ◦ x-nullable: true |
| retention | retention | |
| rotation | rotation | Audit event log files are rotated when they reach a configured threshold log size or are on a configured schedule. When an event log file is rotated, the scheduled consolidation task first renames the active converted file to a time-stamped archive file, and then creates a new active converted event log file. |

svm

SVM, applies only to SVM-scoped objects.

| Name | Type | Description |
|--------|------------------------|---|
| _links | _links | |
| name | string | The name of the SVM. This field cannot be specified in a PATCH method. |
| uuid | string | The unique identifier of the SVM. This field cannot be specified in a PATCH method. |

audit

Auditing for NAS events is a security measure that enables you to track and log certain CIFS and NFS events on SVMs.

| Name | Type | Description |
|------------|------------------------|--|
| charge_qos | boolean | Indicates if audit logs generation should incur an extra charge. |
| enabled | boolean | Specifies whether or not auditing is enabled on the SVM. |
| events | events | |
| guarantee | boolean | Indicates whether there is a strict Guarantee of Auditing |
| log | log | |
| log_path | string | The audit log destination path where consolidated audit logs are stored. |
| svm | svm | SVM, applies only to SVM-scoped objects. |

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. |

Create an audit configuration

POST /protocols/audit

Introduced In: 9.6

Creates an audit configuration.

Required properties

- `svm.uuid` or `svm.name` - Existing SVM to which audit configuration is to be created.
- `log_path` - Path in the owning SVM namespace that is used to store audit logs.

Default property values

If not specified in POST, the following default property values are assigned:

- `enabled` - `true`
- `events.authorization_policy` - `false`
- `events.cap_staging` - `false`
- `events.file_share` - `false`
- `events.security_group` - `false`
- `events.user_account` - `false`
- `events.cifs_logon_logoff` - `true`
- `events.audit_policy_change` - `true`
- `events.async_delete` - `false`
- `events.file_operations` - `true`
- `log.format` - `evtx`
- `log.retention.count` - `0`
- `log.retention.duration` - `PT0S`

- `log.rotation.size` - *100MB*
- `log.rotation.now` - *false*
- `guarantee` - *true*
- `charge_qos` - *false*

Related ONTAP commands

- `vserver audit create`
- `vserver audit enable`

Learn more

- [DOC /protocols/audit](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_timeout | integer | query | False | <p>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.</p> <ul style="list-style-type: none"> • Default value: 0 • Max value: 120 • Min value: 0 |
| return_records | boolean | query | False | <p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> • Default value: |

Request Body

| Name | Type | Description |
|------------|---------|--|
| charge_qos | boolean | Indicates if audit logs generation should incur an extra charge. |
| enabled | boolean | Specifies whether or not auditing is enabled on the SVM. |

| Name | Type | Description |
|-----------|------------------------|--|
| events | events | |
| guarantee | boolean | Indicates whether there is a strict Guarantee of Auditing |
| log | log | |
| log_path | string | The audit log destination path where consolidated audit logs are stored. |
| svm | svm | SVM, applies only to SVM-scoped objects. |

Example request

```
{  
  "charge_qos": "",  
  "guarantee": "",  
  "log": {  
    "format": "string",  
    "retention": {  
      "duration": "P4DT12H30M5S"  
    },  
    "rotation": {  
      "schedule": {  
        "days": [  
          "integer"  
        ],  
        "hours": [  
          "integer"  
        ],  
        "minutes": [  
          "integer"  
        ],  
        "months": [  
          "integer"  
        ],  
        "weekdays": [  
          "integer"  
        ]  
      }  
    }  
  },  
  "log_path": "string",  
  "svm": {  
    "name": "svml1",  
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
  }  
}
```

Response

```
Status: 202, Accepted
```

| Name | Type | Description |
|------|----------|-------------|
| job | job_link | |

Example response

```
{
  "job": {
    "uuid": "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 |
|------------|--|
| 262186 | Field "log.retention.duration" cannot be used with field "log.retention.count" |
| 262196 | Log_rotation_now is not an allowed operation |
| 2621462 | The specified SVM does not exist |
| 9699330 | An audit configuration already exists |
| 9699337 | Audit system internal update is in progress, audit configuration create failed |
| 9699340 | SVM UUID lookup failed |
| 9699358 | Audit configuration is absent for enabling |
| 9699359 | Audit configuration is already enabled |

| Error Code | Description |
|------------|--|
| 9699360 | Final consolidation is in progress, audit enable failed |
| 9699365 | Enabling of audit configuration failed |
| 9699370 | Auditing was successfully configured, however audit configuration could not be enabled |
| 9699384 | The specified log_path does not exist |
| 9699385 | The log_path must be a directory |
| 9699386 | The log_path must be a canonical path in the SVMs namespace |
| 9699387 | The log_path cannot be empty |
| 9699388 | Rotate size must be greater than or equal to 1024 KB |
| 9699389 | The log_path must not contain a symbolic link |
| 9699398 | The log_path exceeds a maximum supported length of characters |
| 9699399 | The log_path contains an unsupported read-only (DP/LS) volume |
| 9699400 | The specified log_path is not a valid destination for SVM |
| 9699402 | The log_path contains an unsupported snaplock volume |
| 9699403 | The log_path cannot be accessed for validation |
| 9699406 | The log_path validation failed |
| 9699409 | Failed to enable multiproto.audit.evtxlog.support support capability |
| 9699428 | All nodes need to run ONTAP 8.3.0 release to audit CIFS logon-logoff events |
| 9699429 | Failed to enable multiproto.audit.cifslogonlogoff.support support capability |
| 9699431 | All nodes need to run ONTAP 8.3.0 release to audit CAP staging events |
| 9699432 | Failed to enable multiproto.audit.capstaging.support support capability |

Definitions

See Definitions

events

| Name | Type | Description |
|----------------------|---------|--|
| async_delete | boolean | Volume file async delete events |
| audit_policy_change | boolean | Audit policy change events |
| authorization_policy | boolean | Authorization policy change events |
| cap_staging | boolean | Central access policy staging events |
| cifs_logon_logoff | boolean | CIFS logon and logoff events |
| file_operations | boolean | File operation events |
| file_share | boolean | File share category events |
| security_group | boolean | Local security group management events |
| user_account | boolean | Local user account management events |

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

retention

| Name | Type | Description |
|-------|---------|--|
| count | integer | Determines how many audit log files to retain before rotating the oldest log file out. This is mutually exclusive with duration. |

| Name | Type | Description |
|----------|--------|--|
| duration | string | Specifies an ISO-8601 format date and time to retain the audit log file. The audit log files are deleted once they reach the specified date/time. This is mutually exclusive with count. |

audit_schedule

Rotates the audit logs based on a schedule by using the time-based rotation parameters in any combination. The rotation schedule is calculated by using all the time-related values.

| Name | Type | Description |
|----------|----------------|---|
| days | array[integer] | Specifies the day of the month schedule to rotate audit log. Leave empty for all. |
| hours | array[integer] | Specifies the hourly schedule to rotate audit log. Leave empty for all. |
| minutes | array[integer] | Specifies the minutes schedule to rotate the audit log. |
| months | array[integer] | Specifies the months schedule to rotate audit log. Leave empty for all. |
| weekdays | array[integer] | Specifies the weekdays schedule to rotate audit log. Leave empty for all. |

rotation

Audit event log files are rotated when they reach a configured threshold log size or are on a configured schedule. When an event log file is rotated, the scheduled consolidation task first renames the active converted file to a time-stamped archive file, and then creates a new active converted event log file.

| Name | Type | Description |
|------|---------|---|
| now | boolean | Manually rotates the audit logs. Optional in PATCH only. Not available in POST. |

| Name | Type | Description |
|----------|----------------|--|
| schedule | audit_schedule | Rotates the audit logs based on a schedule by using the time-based rotation parameters in any combination. The rotation schedule is calculated by using all the time-related values. |
| size | integer | Rotates logs based on log size in bytes. |

log

| Name | Type | Description |
|-----------|-----------|--|
| format | string | <p>The format in which the logs are generated by consolidation process. Possible values are:</p> <ul style="list-style-type: none"> • xml - Data ONTAP-specific XML log format • evtx - Microsoft Windows EVTX log format <ul style="list-style-type: none"> ◦ Default value: 1 ◦ enum: ["xml", "evtx"] ◦ Introduced in: 9.6 ◦ x-nullable: true |
| retention | retention | |
| rotation | rotation | <p>Audit event log files are rotated when they reach a configured threshold log size or are on a configured schedule. When an event log file is rotated, the scheduled consolidation task first renames the active converted file to a time-stamped archive file, and then creates a new active converted event log file.</p> |

svm

SVM, applies only to SVM-scoped objects.

| Name | Type | Description |
|------|--------|---|
| name | string | The name of the SVM. This field cannot be specified in a PATCH method. |
| uuid | string | The unique identifier of the SVM. This field cannot be specified in a PATCH method. |

audit

Auditing for NAS events is a security measure that enables you to track and log certain CIFS and NFS events on SVMs.

| Name | Type | Description |
|------------|---------|--|
| charge_qos | boolean | Indicates if audit logs generation should incur an extra charge. |
| enabled | boolean | Specifies whether or not auditing is enabled on the SVM. |
| events | events | |
| guarantee | boolean | Indicates whether there is a strict Guarantee of Auditing |
| log | log | |
| log_path | string | The audit log destination path where consolidated audit logs are stored. |
| svm | svm | SVM, applies only to SVM-scoped objects. |

job_link

| Name | Type | Description |
|------|--------|---|
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

error_arguments

| Name | Type | Description |
|------|--------|---------------|
| code | string | Argument code |

| Name | Type | Description |
|---------|--------|------------------|
| 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 an audit configuration

`DELETE /protocols/audit/{svm.uuid}`

Introduced In: 9.6

Deletes an audit configuration.

Related ONTAP commands

- `vserver audit disable`
- `vserver audit delete`

Learn more

- [DOC /protocols/audit](#)

Parameters

| Name | Type | In | Required | Description |
|-------|---------|-------|----------|---|
| force | boolean | query | False | <p>Indicates to force delete audit configuration.</p> <ul style="list-style-type: none"> • Introduced in: 9.10 |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_timeout | integer | query | False | <p>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.</p> <ul style="list-style-type: none"> • Default value: 0 • Max value: 120 • Min value: 0 |
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |

Response

Status: 200, Ok

| Name | Type | Description |
|------|--------------------------|-------------|
| job | job_link | |

Example response

```
{  
  "job": {  
    "_links": {  
      "self": {  
        "href": "/api/resourcelink"  
      }  
    },  
    "uuid": "string"  
  }  
}
```

Response

Status: 202, Accepted

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|---|
| 9699349 | Auditing should be disabled before deleting the audit configuration |
| 9699350 | Audit configuration cannot be deleted, final consolidation is in progress |
| 9699410 | Failed to disable multiproto.audit.evtxlog.support support capability |
| 9699430 | Failed to disable multiproto.audit.cifslogonlogoff.support support capability |
| 9699433 | Failed to disable multiproto.audit.capstaging.support support capability |

| 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 | |

job_link

| Name | Type | Description |
|--------|--------|---|
| _links | _links | |
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

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 audit configuration for an SVM

GET /protocols/audit/{svm.uuid}

Introduced In: 9.6

Retrieves an audit configuration for an SVM.

Related ONTAP commands

- `vserver audit show`

Learn more

- [DOC /protocols/audit](#)

Parameters

| Name | Type | In | Required | Description |
|----------|---------------|-------|----------|---|
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|------------|------------------------|--|
| charge_qos | boolean | Indicates if audit logs generation should incur an extra charge. |
| enabled | boolean | Specifies whether or not auditing is enabled on the SVM. |
| events | events | |
| guarantee | boolean | Indicates whether there is a strict Guarantee of Auditing |
| log | log | |
| log_path | string | The audit log destination path where consolidated audit logs are stored. |
| svm | svm | SVM, applies only to SVM-scoped objects. |

Example response

```
{
  "charge_qos": "",
  "guarantee": "",
  "log": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "format": "string",
    "retention": {
      "duration": "P4DT12H30M5S"
    },
    "rotation": {
      "schedule": {
        "days": [
          "integer"
        ],
        "hours": [
          "integer"
        ],
        "minutes": [
          "integer"
        ],
        "months": [
          "integer"
        ],
        "weekdays": [
          "integer"
        ]
      }
    }
  },
  "log_path": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

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

events

| Name | Type | Description |
|----------------------|---------|--|
| async_delete | boolean | Volume file async delete events |
| audit_policy_change | boolean | Audit policy change events |
| authorization_policy | boolean | Authorization policy change events |
| cap_staging | boolean | Central access policy staging events |
| cifs_logon_logoff | boolean | CIFS logon and logoff events |
| file_operations | boolean | File operation events |
| file_share | boolean | File share category events |
| security_group | boolean | Local security group management events |
| user_account | boolean | Local user account management events |

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|------|-------------|
| self | href | |

retention

| Name | Type | Description |
|-------|---------|--|
| count | integer | Determines how many audit log files to retain before rotating the oldest log file out. This is mutually exclusive with duration. |

| Name | Type | Description |
|----------|--------|--|
| duration | string | Specifies an ISO-8601 format date and time to retain the audit log file. The audit log files are deleted once they reach the specified date/time. This is mutually exclusive with count. |

audit_schedule

Rotates the audit logs based on a schedule by using the time-based rotation parameters in any combination. The rotation schedule is calculated by using all the time-related values.

| Name | Type | Description |
|----------|----------------|---|
| days | array[integer] | Specifies the day of the month schedule to rotate audit log. Leave empty for all. |
| hours | array[integer] | Specifies the hourly schedule to rotate audit log. Leave empty for all. |
| minutes | array[integer] | Specifies the minutes schedule to rotate the audit log. |
| months | array[integer] | Specifies the months schedule to rotate audit log. Leave empty for all. |
| weekdays | array[integer] | Specifies the weekdays schedule to rotate audit log. Leave empty for all. |

rotation

Audit event log files are rotated when they reach a configured threshold log size or are on a configured schedule. When an event log file is rotated, the scheduled consolidation task first renames the active converted file to a time-stamped archive file, and then creates a new active converted event log file.

| Name | Type | Description |
|------|---------|---|
| now | boolean | Manually rotates the audit logs. Optional in PATCH only. Not available in POST. |

| Name | Type | Description |
|----------|--------------------------------|--|
| schedule | audit_schedule | Rotates the audit logs based on a schedule by using the time-based rotation parameters in any combination. The rotation schedule is calculated by using all the time-related values. |
| size | integer | Rotates logs based on log size in bytes. |

log

| Name | Type | Description |
|-----------|---------------------------|--|
| _links | _links | |
| format | string | <p>The format in which the logs are generated by consolidation process. Possible values are:</p> <ul style="list-style-type: none"> • xml - Data ONTAP-specific XML log format • evtx - Microsoft Windows EVTX log format <ul style="list-style-type: none"> ◦ Default value: 1 ◦ enum: ["xml", "evtx"] ◦ Introduced in: 9.6 ◦ x-nullable: true |
| retention | retention | |
| rotation | rotation | <p>Audit event log files are rotated when they reach a configured threshold log size or are on a configured schedule. When an event log file is rotated, the scheduled consolidation task first renames the active converted file to a time-stamped archive file, and then creates a new active converted event log file.</p> |

svm

SVM, applies only to SVM-scoped objects.

| Name | Type | Description |
|--------|------------------------|---|
| _links | _links | |
| name | string | The name of the SVM. This field cannot be specified in a PATCH method. |
| uuid | string | The unique identifier of the SVM. This field cannot be specified in a PATCH method. |

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 audit configuration for an SVM

PATCH /protocols/audit/{svm.uuid}

Introduced In: 9.6

Updates an audit configuration for an SVM.

Related ONTAP commands

- `vserver audit modify`

Learn more

- [DOC /protocols/audit](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_timeout | integer | query | False | <p>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.</p> <ul style="list-style-type: none">• Default value: 0• Max value: 120• Min value: 0 |
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |

Request Body

| Name | Type | Description |
|------------|---------|--|
| charge_qos | boolean | Indicates if audit logs generation should incur an extra charge. |

| Name | Type | Description |
|-----------|------------------------|--|
| enabled | boolean | Specifies whether or not auditing is enabled on the SVM. |
| events | events | |
| guarantee | boolean | Indicates whether there is a strict Guarantee of Auditing |
| log | log | |
| log_path | string | The audit log destination path where consolidated audit logs are stored. |

Example request

```
{  
  "charge_qos": "",  
  "guarantee": "",  
  "log": {  
    "format": "string",  
    "retention": {  
      "duration": "P4DT12H30M5S"  
    },  
    "rotation": {  
      "schedule": {  
        "days": [  
          "integer"  
        ],  
        "hours": [  
          "integer"  
        ],  
        "minutes": [  
          "integer"  
        ],  
        "months": [  
          "integer"  
        ],  
        "weekdays": [  
          "integer"  
        ]  
      }  
    }  
  },  
  "log_path": "string"  
}
```

Response

```
Status: 200, Ok
```

| Name | Type | Description |
|------|----------|-------------|
| job | job_link | |

Example response

```
{  
  "job": {  
    "uuid": "string"  
  }  
}
```

Response

Status: 202, Accepted

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 262186 | Field "log.retention.duration" cannot be used with field "log.retention.count" |
| 9699340 | SVM UUID lookup failed |
| 9699343 | Audit configuration is absent for modification |
| 9699358 | Audit configuration is absent for enabling |
| 9699359 | Audit configuration is already enabled |
| 9699360 | Final consolidation is in progress, audit enable failed |
| 9699365 | Enabling of audit configuration failed |
| 9699373 | Audit configuration is absent for disabling |
| 9699374 | Audit configuration is already disabled |
| 9699375 | Disabling of audit configuration failed |
| 9699384 | The specified log_path does not exist |
| 9699385 | The log_path must be a directory |
| 9699386 | The log_path must be a canonical path in the SVMs namespace |
| 9699387 | The log_path cannot be empty |
| 9699388 | Rotate size must be greater than or equal to 1024 KB |
| 9699389 | The log_path must not contain a symbolic link |

| Error Code | Description |
|------------|---|
| 9699398 | The log_path exceeds a maximum supported length of characters |
| 9699399 | The log_path contains an unsupported read-only (DP/LS) volume |
| 9699400 | The specified log_path is not a valid destination for SVM |
| 9699402 | The log_path contains an unsupported snaplock volume |
| 9699403 | The log_path cannot be accessed for validation |
| 9699406 | The log_path validation failed |
| 9699407 | Additional fields are provided |
| 9699409 | Failed to enable multiproto.audit.evtxlog.support support capability |
| 9699410 | Failed to disable multiproto.audit.evtxlog.support support capability |
| 9699418 | Audit configuration is absent for rotate |
| 9699419 | Failed to rotate audit log |
| 9699420 | Cannot rotate audit log, auditing is not enabled for this SVM |
| 9699428 | All nodes need to run ONTAP 8.3.0 release to audit CIFS logon-logoff events |
| 9699429 | Failed to enable multiproto.audit.cifslogonlogoff.support support capability |
| 9699430 | Failed to disable multiproto.audit.cifslogonlogoff.support support capability |
| 9699431 | All nodes need to run ONTAP 8.3.0 release to audit CAP staging events |
| 9699432 | Failed to enable multiproto.audit.capstaging.support support capability |
| 9699433 | Failed to disable multiproto.audit.capstaging.support support capability |

Definitions

See Definitions

events

| Name | Type | Description |
|----------------------|---------|--|
| async_delete | boolean | Volume file async delete events |
| audit_policy_change | boolean | Audit policy change events |
| authorization_policy | boolean | Authorization policy change events |
| cap_staging | boolean | Central access policy staging events |
| cifs_logon_logoff | boolean | CIFS logon and logoff events |
| file_operations | boolean | File operation events |
| file_share | boolean | File share category events |
| security_group | boolean | Local security group management events |
| user_account | boolean | Local user account management events |

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

retention

| Name | Type | Description |
|-------|---------|--|
| count | integer | Determines how many audit log files to retain before rotating the oldest log file out. This is mutually exclusive with duration. |

| Name | Type | Description |
|----------|--------|--|
| duration | string | Specifies an ISO-8601 format date and time to retain the audit log file. The audit log files are deleted once they reach the specified date/time. This is mutually exclusive with count. |

audit_schedule

Rotates the audit logs based on a schedule by using the time-based rotation parameters in any combination. The rotation schedule is calculated by using all the time-related values.

| Name | Type | Description |
|----------|----------------|---|
| days | array[integer] | Specifies the day of the month schedule to rotate audit log. Leave empty for all. |
| hours | array[integer] | Specifies the hourly schedule to rotate audit log. Leave empty for all. |
| minutes | array[integer] | Specifies the minutes schedule to rotate the audit log. |
| months | array[integer] | Specifies the months schedule to rotate audit log. Leave empty for all. |
| weekdays | array[integer] | Specifies the weekdays schedule to rotate audit log. Leave empty for all. |

rotation

Audit event log files are rotated when they reach a configured threshold log size or are on a configured schedule. When an event log file is rotated, the scheduled consolidation task first renames the active converted file to a time-stamped archive file, and then creates a new active converted event log file.

| Name | Type | Description |
|------|---------|---|
| now | boolean | Manually rotates the audit logs. Optional in PATCH only. Not available in POST. |

| Name | Type | Description |
|----------|----------------|--|
| schedule | audit_schedule | Rotates the audit logs based on a schedule by using the time-based rotation parameters in any combination. The rotation schedule is calculated by using all the time-related values. |
| size | integer | Rotates logs based on log size in bytes. |

log

| Name | Type | Description |
|-----------|-----------|--|
| format | string | <p>The format in which the logs are generated by consolidation process. Possible values are:</p> <ul style="list-style-type: none"> • xml - Data ONTAP-specific XML log format • evtx - Microsoft Windows EVTX log format <ul style="list-style-type: none"> ◦ Default value: 1 ◦ enum: ["xml", "evtx"] ◦ Introduced in: 9.6 ◦ x-nullable: true |
| retention | retention | |
| rotation | rotation | <p>Audit event log files are rotated when they reach a configured threshold log size or are on a configured schedule. When an event log file is rotated, the scheduled consolidation task first renames the active converted file to a time-stamped archive file, and then creates a new active converted event log file.</p> |

svm

SVM, applies only to SVM-scoped objects.

| Name | Type | Description |
|------|--------|---|
| name | string | The name of the SVM. This field cannot be specified in a PATCH method. |
| uuid | string | The unique identifier of the SVM. This field cannot be specified in a PATCH method. |

audit

Auditing for NAS events is a security measure that enables you to track and log certain CIFS and NFS events on SVMs.

| Name | Type | Description |
|------------|---------|--|
| charge_qos | boolean | Indicates if audit logs generation should incur an extra charge. |
| enabled | boolean | Specifies whether or not auditing is enabled on the SVM. |
| events | events | |
| guarantee | boolean | Indicates whether there is a strict Guarantee of Auditing |
| log | log | |
| log_path | string | The audit log destination path where consolidated audit logs are stored. |

job_link

| Name | Type | Description |
|------|--------|---|
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

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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