Manage multi-admin-verify rules

REST API reference

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Manage multi-admin-verify rules

Security multi-admin-verify rules endpoint overview

Overview

Rules define the ONTAP commands (operations) that should be protected by multi-admin approval. While the feature is turned on, any ONTAP operation that is defined with a rule will be enforced with multi-admin approval to execute the command (operation).

Examples

Creating a multi-admin-verify rule

Creates a rule for the specified ONTAP operation.

```
# The API:
/api/security/multi-admin-verify/rules

# The call:
curl -X POST "https://<mgmt-ip>/api/security/multi-admin-
verify/rules?return_records=true" -H "accept: application/hal+json" -d
'{"owner.uuid": "c109634f-7011-11ec-a23d-005056a78fd5", "operation":
"volume delete", "query": "-vserver vs0", "required_approvers": 1}'

# The response:
{
"num_records": 1,
"records": [
  {
    "owner": {
      "uuid": "c109634f-7011-11ec-a23d-005056a78fd5",
      "_links": {
        "self": {
          "href": "/api/svm/svms/c109634f-7011-11ec-a23d-005056a78fd5"
        }
      }
    },
    "operation": "volume delete",
    "auto_request_create": true,
    "query": "-vserver vs0",
    "required_approvers": 1,
    "create_time": "2022-01-07T22:14:03-05:00",
    "system_defined": false,
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/c109634f-7011-
11ec-a23d-005056a78fd5/volume%20delete"
      }
    }
  }
]
}
```

Retrieving multi-admin-verify rules

Displays information about multi admin verification rules.

```
# The API:
/api/security/multi-admin-verify/rules

# The call:
curl -X GET "https://<cluster-ip>/api/security/multi-admin-verify/rules"

# The response:
{
"records": [
  {
    "owner": {
      "uuid": "52b75787-7011-11ec-a23d-005056a78fd5",
      "name": "cluster1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/52b75787-7011-11ec-a23d-005056a78fd5"
        }
      }
    },
    "operation": "security login password",
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/52b75787-7011-
11ec-a23d-005056a78fd5/security%20login%20password"
      }
    }
  },
  {
    "owner": {
      "uuid": "52b75787-7011-11ec-a23d-005056a78fd5",
      "name": "cluster1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/52b75787-7011-11ec-a23d-005056a78fd5"
        }
      }
    },
    "operation": "security login unlock",
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/52b75787-7011-
11ec-a23d-005056a78fd5/security%20login%20unlock"
      }
    }
  },
  {
```

```
    "owner": {
      "uuid": "52b75787-7011-11ec-a23d-005056a78fd5",
      "name": "cluster1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/52b75787-7011-11ec-a23d-005056a78fd5"
        }
      }
    },
    "operation": "security multi-admin-verify approval-group create",
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/52b75787-7011-
11ec-a23d-005056a78fd5/security%20multi-admin-verify%20approval-
group%20create"
      }
    }
  },
  {
    "owner": {
      "uuid": "52b75787-7011-11ec-a23d-005056a78fd5",
      "name": "cluster1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/52b75787-7011-11ec-a23d-005056a78fd5"
        }
      }
    },
    "operation": "security multi-admin-verify approval-group delete",
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/52b75787-7011-
11ec-a23d-005056a78fd5/security%20multi-admin-verify%20approval-
group%20delete"
      }
    }
  },
  {
    "owner": {
      "uuid": "52b75787-7011-11ec-a23d-005056a78fd5",
      "name": "cluster1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/52b75787-7011-11ec-a23d-005056a78fd5"
        }
      }
```

```
    },
    "operation": "security multi-admin-verify approval-group modify",
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/52b75787-7011-
11ec-a23d-005056a78fd5/security%20multi-admin-verify%20approval-
group%20modify"
      }
    }
  },
  {
    "owner": {
      "uuid": "52b75787-7011-11ec-a23d-005056a78fd5",
      "name": "cluster1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/52b75787-7011-11ec-a23d-005056a78fd5"
        }
      }
    },
    "operation": "security multi-admin-verify approval-group replace",
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/52b75787-7011-
11ec-a23d-005056a78fd5/security%20multi-admin-verify%20approval-
group%20replace"
      }
    }
  },
  {
    "owner": {
      "uuid": "52b75787-7011-11ec-a23d-005056a78fd5",
      "name": "cluster1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/52b75787-7011-11ec-a23d-005056a78fd5"
        }
      }
    },
    "operation": "security multi-admin-verify modify",
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/52b75787-7011-
11ec-a23d-005056a78fd5/security%20multi-admin-verify%20modify"
      }
    }
```

```
  },
  {
    "owner": {
      "uuid": "52b75787-7011-11ec-a23d-005056a78fd5",
      "name": "cluster1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/52b75787-7011-11ec-a23d-005056a78fd5"
        }
      }
    },
    "operation": "security multi-admin-verify rule create",
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/52b75787-7011-
11ec-a23d-005056a78fd5/security%20multi-admin-verify%20rule%20create"
      }
    }
  },
  {
    "owner": {
      "uuid": "52b75787-7011-11ec-a23d-005056a78fd5",
      "name": "cluster1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/52b75787-7011-11ec-a23d-005056a78fd5"
        }
      }
    },
    "operation": "security multi-admin-verify rule delete",
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/52b75787-7011-
11ec-a23d-005056a78fd5/security%20multi-admin-verify%20rule%20delete"
      }
    }
  },
  {
    "owner": {
      "uuid": "52b75787-7011-11ec-a23d-005056a78fd5",
      "name": "cluster1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/52b75787-7011-11ec-a23d-005056a78fd5"
        }
      }
```

```
    },
    "operation": "security multi-admin-verify rule modify",
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/52b75787-7011-
11ec-a23d-005056a78fd5/security%20multi-admin-verify%20rule%20modify"
      }
    }
  },
  {
    "owner": {
      "uuid": "52b75787-7011-11ec-a23d-005056a78fd5",
      "name": "cluster1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/52b75787-7011-11ec-a23d-005056a78fd5"
        }
      }
    },
    "operation": "volume delete",
    "_links": {
      "self": {
        "href": "/api/security/multi-admin-verify/rules/52b75787-7011-
11ec-a23d-005056a78fd5/volume%20delete"
      }
    }
  }
],
"num_records": 11,
"_links": {
  "self": {
    "href": "/api/security/multi-admin-verify/rules"
  }
}
}
```


Retrieve multi-admin-verify rules

GET `/security/multi-admin-verify/rules`

Introduced In: 9.11

Retrieves multi-admin-verify rules.

Parameters

Name	Type	In	Required	Description
operation	string	query	False	Filter by operation
required_approvers	integer	query	False	Filter by required_approvers
query	string	query	False	Filter by query
owner.uuid	string	query	False	Filter by owner.uuid
owner.name	string	query	False	Filter by owner.name
execution_expiry	string	query	False	Filter by execution_expiry
auto_request_create	boolean	query	False	Filter by auto_request_create
system_defined	boolean	query	False	Filter by system_defined
approval_expiry	string	query	False	Filter by approval_expiry
approval_groups.name	string	query	False	Filter by approval_groups.name
create_time	string	query	False	Filter by create_time
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	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
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
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[multi_admin_verify_rule]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "approval_expiry": "string",
      "approval_groups": [
        {
          "name": "string"
        }
      ],
      "create_time": "string",
      "execution_expiry": "string",
      "operation": "string",
      "owner": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "query": "string"
    }
  ]
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	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	

approval_groups

Name	Type	Description
name	string	Name of the approval group.

_links

Name	Type	Description
self	href	

owner

The owner of the rule. The only valid owner is currently the cluster.

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

multi_admin_verify_rule

Name	Type	Description
approval_expiry	string	Time for requests to be approved, in ISO-8601 duration format. If not set, the global setting is used.
approval_groups	array[approval_groups]	List of approval groups that are allowed to approve requests for rules that don't have approval groups.

Name	Type	Description
auto_request_create	boolean	When true, ONTAP automatically creates a request for any failed operation where there is no matching pending request. • Default value: • Introduced in: 9.11
create_time	string	
execution_expiry	string	Time for requests to be executed once approved, in ISO-8601 duration format. If not set, the global setting is used.
operation	string	Command that requires one or more approvals.
owner	owner	The owner of the rule. The only valid owner is currently the cluster.
query	string	When specified, this property limits the entries that require approvals to those that match the specified query.
required_approvers	integer	The number of required approvers, excluding the user that made the request.
system_defined	boolean	Specifies whether the rule is system-defined or user-defined.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments

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

Create a multi-admin-verify rule

POST `/security/multi-admin-verify/rules`

Introduced In: 9.11

Creates a multi-admin-verify rule.

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
approval_expiry	string	Time for requests to be approved, in ISO-8601 duration format. If not set, the global setting is used.
approval_groups	array[approval_groups]	List of approval groups that are allowed to approve requests for rules that don't have approval groups.

Name	Type	Description
auto_request_create	boolean	When true, ONTAP automatically creates a request for any failed operation where there is no matching pending request. • Default value: 1 • Introduced in: 9.11
create_time	string	
execution_expiry	string	Time for requests to be executed once approved, in ISO-8601 duration format. If not set, the global setting is used.
operation	string	Command that requires one or more approvals.
owner	owner	The owner of the rule. The only valid owner is currently the cluster.
query	string	When specified, this property limits the entries that require approvals to those that match the specified query.
required_approvers	integer	The number of required approvers, excluding the user that made the request.
system_defined	boolean	Specifies whether the rule is system-defined or user-defined.

Example request

```
{
  "approval_expiry": "string",
  "approval_groups": [
    {
      "name": "string"
    }
  ],
  "create_time": "string",
  "execution_expiry": "string",
  "operation": "string",
  "owner": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "query": "string"
}
```

Response

```
Status: 201, Created
```

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

Example response


```
{
  "num_records": 1,
  "records": [
    {
      "approval_expiry": "string",
      "approval_groups": [
        {
          "name": "string"
        }
      ],
      "create_time": "string",
      "execution_expiry": "string",
      "operation": "string",
      "owner": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "query": "string"
    }
  ]
}
```


Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
262148	The specified command is not recognized.
262308	The specified command is not supported by this feature.
262309	The feature must be enabled first.
262311	Value must be greater than zero.

Error Code	Description
262312	Number of required approvers must be less than the total number of unique approvers in the approval-groups.
262313	Number of unique approvers in the approval-groups must be greater than the number of required approvers.
262314	Some approval-groups were not found.
262316	Value must be in the range one second to two weeks.
262326	Failed to parse query.
262335	The query string must be contained in either the "operation" or "query" parameters but not in both.

Definitions

See Definitions

approval_groups

Name	Type	Description
name	string	Name of the approval group.

href

Name	Type	Description
href	string	

_links

owner

The owner of the rule. The only valid owner is currently the cluster.

Name	Type	Description
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

multi_admin_verify_rule

Name	Type	Description
approval_expiry	string	Time for requests to be approved, in ISO-8601 duration format. If not set, the global setting is used.
approval_groups	array[approval_groups]	List of approval groups that are allowed to approve requests for rules that don't have approval groups.
auto_request_create	boolean	When true, ONTAP automatically creates a request for any failed operation where there is no matching pending request. • Default value: 1 • Introduced in: 9.11
create_time	string	

Name	Type	Description
execution_expiry	string	Time for requests to be executed once approved, in ISO-8601 duration format. If not set, the global setting is used.
operation	string	Command that requires one or more approvals.
owner	owner	The owner of the rule. The only valid owner is currently the cluster.
query	string	When specified, this property limits the entries that require approvals to those that match the specified query.
required_approvers	integer	The number of required approvers, excluding the user that made the request.
system_defined	boolean	Specifies whether the rule is system-defined or user-defined.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

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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