View group policy objects

REST API reference

NetApp
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View group policy objects

Protocols CIFS group-policies svm.uuid objects endpoint overview

Overview

When group policy objects (GPO) are enabled on your SMB server, ONTAP sends LDAP queries to the Active Directory server requesting GPO information. If there are GPO definitions that are applicable to your SMB server, the Active Directory server returns the following GPO information: • GPO name • Current GPO version • Location of the GPO definition • Lists of UUIDs (universally unique identifiers) for GPO policy sets

Retrieve applied group policy objects for an SVM

GET `/protocols/cifs/group-policies/{svm.uuid}/objects`

Introduced In: 9.12

Retrieves applied group policy objects for specified SVM.

Related ONTAP commands

- `vserver cifs group-policy show-applied`

Parameters

Name	Type	In	Required	Description
link	string	query	False	Filter by link
ldap_path	string	query	False	Filter by ldap_path
enabled	boolean	query	False	Filter by enabled
central_access_policy_staging_audit_type	string	query	False	Filter by central_access_policy_staging_audit_type
security_settings.event_log_settings.max_size	integer	query	False	Filter by security_settings.event_log_settings.max_size
security_settings.event_log_settings.retention_method	string	query	False	Filter by security_settings.event_log_settings.retention_method

Name	Type	In	Required	Description
security_settings.files_or_folders	string	query	False	Filter by security_settings.files_or_folders
security_settings.restricted_groups	string	query	False	Filter by security_settings.restricted_groups
security_settings.event_audit_settings.logon_type	string	query	False	Filter by security_settings.event_audit_settings.logon_type
security_settings.event_audit_settings.object_access_type	string	query	False	Filter by security_settings.event_audit_settings.object_access_type
security_settings.privilege_rights.change_notify_users	string	query	False	Filter by security_settings.privilege_rights.change_notify_users
security_settings.privilege_rights.security_privilege_users	string	query	False	Filter by security_settings.privilege_rights.security_privilege_users
security_settings.privilege_rights.take_ownership_users	string	query	False	Filter by security_settings.privilege_rights.take_ownership_users
security_settings.kerberos.max_clock_skew	string	query	False	Filter by security_settings.kerberos.max_clock_skew
security_settings.kerberos.max_renew_age	string	query	False	Filter by security_settings.kerberos.max_renew_age
security_settings.kerberos.max_ticket_age	string	query	False	Filter by security_settings.kerberos.max_ticket_age

Name	Type	In	Required	Description
security_settings.registry_values.signing_required	boolean	query	False	Filter by security_settings.registry_values.signing_required
security_settings.restrict_anonymous.no_enumeration_of_sam_accounts	boolean	query	False	Filter by security_settings.restrict_anonymous.no_enumeration_of_sam_accounts
security_settings.restrict_anonymous.no_enumeration_of_sam_accounts_and_shares	boolean	query	False	Filter by security_settings.restrict_anonymous.no_enumeration_of_sam_accounts_and_shares
security_settings.restrict_anonymous.combined_restriction_for_anonymous_user	string	query	False	Filter by security_settings.restrict_anonymous.combined_restriction_for_anonymous_user
security_settings.restrict_anonymous.anonymous_access_to_shares_and_named_pipes_restricted	boolean	query	False	Filter by security_settings.restrict_anonymous.anonymous_access_to_shares_and_named_pipes_restricted
extensions	string	query	False	Filter by extensions
version	integer	query	False	Filter by version
uuid	string	query	False	Filter by uuid
name	string	query	False	Filter by name • minLength: 1
index	integer	query	False	Filter by index
svm.name	string	query	False	Filter by svm.name
file_system_path	string	query	False	Filter by file_system_path

Name	Type	In	Required	Description
central_access_policy_settings	string	query	False	Filter by central_access_policy_settings
registry_settings.branchcache.hash_publication_mode	string	query	False	Filter by registry_settings.branchcache.hash_publication_mode
registry_settings.branchcache.supported_hash_version	string	query	False	Filter by registry_settings.branchcache.supported_hash_version
registry_settings.refresh_time_random_offset	string	query	False	Filter by registry_settings.refresh_time_random_offset
registry_settings.refresh_time_interval	string	query	False	Filter by registry_settings.refresh_time_interval
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.
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
max_records	integer	query	False	Limit the number of records returned.
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 group policy objects.
records	array[group_policy_object]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "central_access_policy_settings": [
        "p1",
        "p2"
      ],
      "central_access_policy_staging_audit_type": "none",
      "extensions": [
        "audit",
        "security"
      ],
      "file_system_path": "\\test.com\\SysVol\\test.com\\policies
\\{42474212-3f9d-4489-ae01-6fcf4f805d4c}",
      "index": 1,
      "ldap_path": "cn={42474212-3f9d-4489-ae01-
6fcf4f805d4c},cn=policies,cn=system,DC=TEST,DC=COM",
      "link": "domain",
      "name": "test_policy",
      "registry_settings": {
        "branchcache": {
          "hash_publication_mode": "disabled",
          "supported_hash_version": "version1"
        },
        "refresh_time_interval": "P15M",
        "refresh_time_random_offset": "P1D"
      },
      "security_settings": {
        "event_audit_settings": {
          "logon_type": "failure",
          "object_access_type": "failure"
        },
        "event_log_settings": {
          "max_size": 2048,
          "retention_method": "do_not_overwrite"
```

```
        },
        "files_or_folders": [
          "/vol1/home",
          "/vol1/dir1"
        ],
        "kerberos": {
          "max_clock_skew": "P15M",
          "max_renew_age": "P2D",
          "max_ticket_age": "P24H"
        },
        "privilege_rights": {
          "change_notify_users": [
            "usr1",
            "usr2"
          ],
          "security_privilege_users": [
            "usr1",
            "usr2"
          ],
          "take_ownership_users": [
            "usr1",
            "usr2"
          ]
        },
        "restrict_anonymous": {
          "combined_restriction_for_anonymous_user": "no_access"
        },
        "restricted_groups": [
          "test_grp1",
          "test_grp2"
        ]
      },
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "uuid": "42474212-3f9d-4489-ae01-6fcf4f805d4c",
      "version": 7
    }
  ]
}
```

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	

group_policy_object_branchcache

Name	Type	Description
hash_publication_mode	string	Hash publication mode.
supported_hash_version	string	Hash version.

group_policy_object_registry_setting

Name	Type	Description
branchcache	group_policy_object_branchcache	
refresh_time_interval	string	Refresh time interval in ISO-8601 format.
refresh_time_random_offset	string	Random offset in ISO-8601 format.

group_policy_object_event_audit

Name	Type	Description
logon_type	string	Type of logon event to be audited.
object_access_type	string	Type of object access to be audited.

group_policy_object_event_log

Name	Type	Description
max_size	integer	Maximum size of security log, in kilobytes.
retention_method	string	Audit log retention method.

group_policy_object_kerberos

Name	Type	Description
max_clock_skew	string	Kerberos clock skew in ISO-8601 format.
max_renew_age	string	Kerberos max renew age in ISO-8601 format.
max_ticket_age	string	Kerberos max ticket age in ISO-8601 format.

group_policy_object_privilege_right

Name	Type	Description
change_notify_users	array[string]	Users with traversing bypass privileges.
security_privilege_users	array[string]	Users with security privileges.
take_ownership_users	array[string]	Users who can take ownership of securable objects.

group_policy_object_registry_value

Name	Type	Description
signing_required	boolean	SMB signing required.

group_policy_object_restrict_anonymous

Name	Type	Description
anonymous_access_to_shares_and_named_pipes_restricted	boolean	Restrict anonymous access to shares and named pipes.
combined_restriction_for_anonymous_user	string	Combined restriction for anonymous user.

Name	Type	Description
no_enumeration_of_sam_accounts	boolean	No enumeration of SAM accounts.
no_enumeration_of_sam_accounts_and_shares	boolean	No enumeration of SAM accounts and shares.

group_policy_object_security_setting

Name	Type	Description
event_audit_settings	group_policy_object_event_audit	
event_log_settings	group_policy_object_event_log	
files_or_folders	array[string]	Files/Directories for file security.
kerberos	group_policy_object_kerberos	
privilege_rights	group_policy_object_privilege_right	
registry_values	group_policy_object_registry_value	
restrict_anonymous	group_policy_object_restrict_anonymous	
restricted_groups	array[string]	List of restricted groups.

_links

Name	Type	Description
self	href	

svm

Will not be populated for objects that are yet to be applied.

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.

group_policy_object

Name	Type	Description
central_access_policy_settings	array[string]	List of central access policies.
central_access_policy_staging_audit_type	string	Types of events to be audited.
enabled	boolean	Specifies whether group policies are enabled for the SVM.
extensions	array[string]	List of extensions.
file_system_path	string	File system path.
index	integer	Group policy object index.
ldap_path	string	LDAP path to the GPO.
link	string	Link info.
name	string	
registry_settings	group_policy_object_registry_setting	
security_settings	group_policy_object_security_setting	
svm	svm	Will not be populated for objects that are yet to be applied.
uuid	string	Policy UUID.
version	integer	Group policy object version.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_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.

Retrieve an applied group policy object for an SVM

GET `/protocols/cifs/group-policies/{svm.uuid}/objects/{index}`

Introduced In: 9.12

Retrieves applied group policy object for specified SVM.

Related ONTAP commands

- `vserver cifs group-policy show-applied`

Parameters

Name	Type	In	Required	Description
index	integer	path	True	Restricted group index.
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
central_access_policy_settings	array[string]	List of central access policies.
central_access_policy_staging_audit_type	string	Types of events to be audited.

Name	Type	Description
enabled	boolean	Specifies whether group policies are enabled for the SVM.
extensions	array[string]	List of extensions.
file_system_path	string	File system path.
index	integer	Group policy object index.
ldap_path	string	LDAP path to the GPO.
link	string	Link info.
name	string	
registry_settings	group_policy_object_registry_setting	
security_settings	group_policy_object_security_setting	
svm	svm	Will not be populated for objects that are yet to be applied.
uuid	string	Policy UUID.
version	integer	Group policy object version.

Example response


```
{
  "central_access_policy_settings": [
    "p1",
    "p2"
  ],
  "central_access_policy_staging_audit_type": "none",
  "extensions": [
    "audit",
    "security"
  ],
  "file_system_path": "\\test.com\\SysVol\\test.com\\policies
\\{42474212-3f9d-4489-ae01-6fcf4f805d4c}",
  "index": 1,
  "ldap_path": "cn={42474212-3f9d-4489-ae01-
6fcf4f805d4c},cn=policies,cn=system,DC=TEST,DC=COM",
  "link": "domain",
  "name": "test_policy",
  "registry_settings": {
    "branchcache": {
      "hash_publication_mode": "disabled",
      "supported_hash_version": "version1"
    },
    "refresh_time_interval": "P15M",
    "refresh_time_random_offset": "P1D"
  },
  "security_settings": {
    "event_audit_settings": {
      "logon_type": "failure",
      "object_access_type": "failure"
    },
    "event_log_settings": {
      "max_size": 2048,
      "retention_method": "do_not_overwrite"
    },
    "files_or_folders": [
      "/vol1/home",
      "/vol1/dir1"
    ],
    "kerberos": {
      "max_clock_skew": "P15M",
      "max_renew_age": "P2D",
      "max_ticket_age": "P24H"
    },
    "privilege_rights": {
```

```
      "change_notify_users": [
        "usr1",
        "usr2"
      ],
      "security_privilege_users": [
        "usr1",
        "usr2"
      ],
      "take_ownership_users": [
        "usr1",
        "usr2"
      ]
    },
    "restrict_anonymous": {
      "combined_restriction_for_anonymous_user": "no_access"
    },
    "restricted_groups": [
      "test_grp1",
      "test_grp2"
    ]
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "42474212-3f9d-4489-ae01-6fcf4f805d4c",
  "version": 7
}
```


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

group_policy_object_branchcache

Name	Type	Description
hash_publication_mode	string	Hash publication mode.
supported_hash_version	string	Hash version.

group_policy_object_registry_setting

Name	Type	Description
branchcache	group_policy_object_branchcache	
refresh_time_interval	string	Refresh time interval in ISO-8601 format.
refresh_time_random_offset	string	Random offset in ISO-8601 format.

group_policy_object_event_audit

Name	Type	Description
logon_type	string	Type of logon event to be audited.
object_access_type	string	Type of object access to be audited.

group_policy_object_event_log

Name	Type	Description
max_size	integer	Maximum size of security log, in kilobytes.
retention_method	string	Audit log retention method.

group_policy_object_kerberos

Name	Type	Description
max_clock_skew	string	Kerberos clock skew in ISO-8601 format.

Name	Type	Description
max_renew_age	string	Kerberos max renew age in ISO-8601 format.
max_ticket_age	string	Kerberos max ticket age in ISO-8601 format.

group_policy_object_privilege_right

Name	Type	Description
change_notify_users	array[string]	Users with traversing bypass privileges.
security_privilege_users	array[string]	Users with security privileges.
take_ownership_users	array[string]	Users who can take ownership of securable objects.

group_policy_object_registry_value

Name	Type	Description
signing_required	boolean	SMB signing required.

group_policy_object_restrict_anonymous

Name	Type	Description
anonymous_access_to_shares_and_named_pipes_restricted	boolean	Restrict anonymous access to shares and named pipes.
combined_restriction_for_anonymous_user	string	Combined restriction for anonymous user.
no_enumeration_of_sam_accounts	boolean	No enumeration of SAM accounts.
no_enumeration_of_sam_accounts_and_shares	boolean	No enumeration of SAM accounts and shares.

group_policy_object_security_setting

Name	Type	Description
event_audit_settings	group_policy_object_event_audit	
event_log_settings	group_policy_object_event_log	

Name	Type	Description
files_or_folders	array[string]	Files/Directories for file security.
kerberos	group_policy_object_kerberos	
privilege_rights	group_policy_object_privilege_right	
registry_values	group_policy_object_registry_value	
restrict_anonymous	group_policy_object_restrict_anonymous	
restricted_groups	array[string]	List of restricted groups.

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

Will not be populated for objects that are yet to be applied.

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.

Retrieve applied restricted group policies for an SVM

GET `/protocols/cifs/group-policies/{svm.uuid}/restricted-groups`

Introduced In: 9.12

Retrieves applied policies of restricted groups for specified SVM.

Related ONTAP commands

- `vserver cifs group-policy restricted-group show-applied`

Parameters

Name	Type	In	Required	Description
group_name	string	query	False	Filter by group_name • minLength: 1
svm.name	string	query	False	Filter by svm.name
policy_name	string	query	False	Filter by policy_name • minLength: 1
version	integer	query	False	Filter by version
memberships	string	query	False	Filter by memberships
members	string	query	False	Filter by members

Name	Type	In	Required	Description
link	string	query	False	Filter by link
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.
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
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
max_records	integer	query	False	Limit the number of records returned.
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 restricted group info.
records	array[group_policy_object_restricted_group]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "group_name": "test_group",
      "link": "domain",
      "members": [
        "DOMAIN/test_user",
        "DOMAIN/user2"
      ],
      "memberships": [
        "DOMAIN/AdministratorGrp",
        "DOMAIN/deptMark"
      ],
      "policy_name": "test_policy",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "version": 7
    }
  ]
}
```


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	

svm

Will not be populated for objects that are yet to be applied.

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.

group_policy_object_restricted_group

Name	Type	Description
group_name	string	
link	string	Link info.
members	array[string]	Members of the group.
memberships	array[string]	Group is member of Group/OU.
policy_name	string	

Name	Type	Description
svm	svm	Will not be populated for objects that are yet to be applied.
version	integer	Group policy object version.

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 an applied restricted group policy for an SVM

GET `/protocols/cifs/group-policies/{svm.uuid}/restricted-groups/{policy_index}/{group_name}`

Introduced In: 9.12

Retrieves applied policy of restricted group for specified SVM.

Related ONTAP commands

- `vserver cifs group-policy restricted-group show-applied`

Parameters

Name	Type	In	Required	Description
policy_index	integer	path	True	Group policy index.

Name	Type	In	Required	Description
group_name	string	path	True	Group name.
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
group_name	string	
link	string	Link info.
members	array[string]	Members of the group.
memberships	array[string]	Group is member of Group/OU.
policy_name	string	
svm	svm	Will not be populated for objects that are yet to be applied.
version	integer	Group policy object version.

Example response


```
{
  "group_name": "test_group",
  "link": "domain",
  "members": [
    "DOMAIN/test_user",
    "DOMAIN/user2"
  ],
  "memberships": [
    "DOMAIN/AdministratorGrp",
    "DOMAIN/deptMark"
  ],
  "policy_name": "test_policy",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "version": 7
}
```


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	

svm

Will not be populated for objects that are yet to be applied.

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.

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