



CLI change events that can be audited

ONTAP 9

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CLI change events that can be audited

Learn about ONTAP CLI change events that can be audited

ONTAP can audit certain CLI change events, including certain SMB-share events, certain audit policy events, certain local security group events, local user group events, and authorization policy events. Understanding which change events can be audited is helpful when interpreting results from the event logs.

You can manage storage virtual machine (SVM) auditing CLI change events by manually rotating the audit logs, enabling or disabling auditing, displaying information about auditing change events, modifying auditing change events, and deleting auditing change events.

As an administrator, if you execute any command to change configuration related to the SMB-share, local user-group, local security-group, authorization-policy, and audit-policy events, a record generates and the corresponding event gets audited:

Auditing Category	Events	Event IDs	Run this command...
Mhost Auditing	policy-change	[4719] Audit configuration changed	vserver audit disable enable modify
	file-share	[5142] Network share was added	vserver cifs share create
		[5143] Network share was modified	vserver cifs share modify vserver cifs share create modify delete vserver cifs share add remove
		[5144] Network share deleted	vserver cifs share delete

Auditing

		Renam e-and-groups local- user rename
security-group	[4731] Local Security Group created	vserver cifs users-and-groups local-group create vserver services name-service unix-group create
	[4734] Local Security Group deleted	vserver cifs users-and-groups local-group delete vserver services name-service unix-group delete
	[4735] Local Security Group Modified	vserver cifs users-and-groups local-group rename modify vserver services name-service unix-group modify
	[4732] User added to Local Group	vserver cifs users-and-groups local-group add-members vserver services name-service unix-group adduser
	[4733] User Removed from Local Group	vserver cifs users-and-groups local-group remove-members vserver services name-service unix-group deluser
authorization-policy-change	[4704] User Rights Assigned	vserver cifs users-and-groups privilege add-privilege
	[4705] User Rights Removed	vserver cifs users-and-groups privilege remove-privilege reset-privilege

Related information

- [vserver](#)

Manage file-share ONTAP events

When a file-share event is configured for a storage virtual machine (SVM) and an audit is enabled, audit events are generated. The file-share events are generated when the SMB network share is modified using `vserver cifs share` related commands.

The file-share events with the event-ids 5142, 5143, and 5144 are generated when a SMB network share is added, modified, or deleted for the SVM. The SMB network share configuration is modified using the `cifs share access control create|modify|delete` commands.

The following example displays a file-share event with the ID 5143 is generated, when a share object called 'audit_dest' is created:

```
netapp-clus1::>*> cifs share create -share-name audit_dest -path
/audit_dest
- System
  - Provider
    [ Name]  NetApp-Security-Auditing
    [ Guid]  {3CB2A168-FE19-4A4E-BDAD-DCF422F13473}
    EventID 5142
    EventName Share Object Added
    ...
    ...
ShareName audit_dest
SharePath /audit_dest
ShareProperties oplocks;browsable;changenotify;show-previous-versions;
SD O:BAG:S-1-5-21-2447422786-1297661003-4197201688-513D: (A;;FA;;;WD)
```

Manage audit-policy-change ONTAP events

When an audit-policy-change event is configured for a storage virtual machine (SVM) and an audit is enabled, audit events are generated. The audit-policy-change events are generated when an audit policy is modified using `vserver audit` related commands.

The audit-policy-change event with the event-id 4719 is generated whenever an audit policy is disabled, enabled, or modified and helps to identify when a user attempts to disable auditing to cover the tracks. It is configured by default and requires diagnostic privilege to disable.

The following example displays an audit-policy change event with the ID 4719 generated, when an audit is disabled:

```
netapp-clus1::*> vserver audit disable -vserver vserver_1
- System
- Provider
  [ Name]  NetApp-Security-Auditing
  [ Guid]  {3CB2A168-FE19-4A4E-BDAD-DCF422F13473}
  EventID 4719
  EventName Audit Disabled
  ...
  ...
  SubjectUserName admin
  SubjectUserSid 65533-1001
  SubjectDomainName ~
  SubjectIP console
  SubjectPort
```

Manage user-account ONTAP events

When a user-account event is configured for a storage virtual machine (SVM) and an audit is enabled, audit events are generated.

The user-account events with event-ids 4720, 4722, 4724, 4725, 4726, 4738, and 4781 are generated when a local SMB or NFS user is created or deleted from the system, local user account is enabled, disabled or modified, and local SMB user password is reset or changed. The user-account events are generated when a user account is modified using `vserver cifs users-and-groups <local user>` and `vserver services name-service <unix user>` commands.

The following example displays a user account event with the ID 4720 generated, when a local SMB user is created:

```
netapp-clus1::*> vserver cifs users-and-groups local-user create -user
-name testuser -is-account-disabled false -vserver vserver_1
Enter the password:
Confirm the password:

- System
- Provider
  [ Name] NetApp-Security-Auditing
  [ Guid] {3CB2A168-FE19-4A4E-BDAD-DCF422F13473}
  EventID 4720
  EventName Local Cifs User Created
  ...
  ...
  TargetUserName testuser
  TargetDomainName NETAPP-CLUS1
  TargetSid S-1-5-21-2447422786-1297661003-4197201688-1003
  TargetType CIFS
  DisplayName testuser
  PasswordLastSet 1472662216
  AccountExpires NO
  PrimaryGroupId 513
  UserAccountControl %%0200
  SidHistory ~
  PrivilegeList ~
```

The following example displays a user account event with the ID 4781 generated, when the local SMB user created in the preceding example is renamed:

```
netapp-clus1::*> vserver cifs users-and-groups local-user rename -user
-name testuser -new-user-name testuser1
- System
- Provider
[ Name] NetApp-Security-Auditing
[ Guid] {3CB2A168-FE19-4A4E-BDAD-DCF422F13473}
EventID 4781
EventName Local Cifs User Renamed
...
...
OldTargetUserName testuser
NewTargetUserName testuser1
TargetDomainName NETAPP-CLUS1
TargetSid S-1-5-21-2447422786-1297661003-4197201688-1000
TargetType CIFS
SidHistory ~
PrivilegeList ~
```

Manage security-group ONTAP events

When a security-group event is configured for a storage virtual machine (SVM) and an audit is enabled, audit events are generated.

The security-group events with event-ids 4731, 4732, 4733, 4734, and 4735 are generated when a local SMB or NFS group is created or deleted from the system, and local user is added or removed from the group. The security-group-events are generated when a user account is modified using `vserver cifs users-and-groups <local-group>` and `vserver services name-service <unix-group>` commands.

The following example displays a security group event with the ID 4731 generated, when a local UNIX security group is created:

```
netapp-clus1::*> vserver services name-service unix-group create -name
testunixgroup -id 20
- System
- Provider
  [ Name]  NetApp-Security-Auditing
  [ Guid]  {3CB2A168-FE19-4A4E-BDAD-DCF422F13473}
  EventID 4731
  EventName Local Unix Security Group Created
  ...
  ...
SubjectUserName admin
SubjectUserSid 65533-1001
SubjectDomainName ~
SubjectIP console
SubjectPort
TargetUserName testunixgroup
TargetDomainName
TargetGid 20
TargetType NFS
PrivilegeList ~
GidHistory ~
```

Manage authorization-policy-change ONTAP events

When authorization-policy-change event is configured for a storage virtual machine (SVM) and an audit is enabled, audit events are generated.

The authorization-policy-change events with the event-ids 4704 and 4705 are generated whenever the authorization rights are granted or revoked for an SMB user and SMB group. The authorization-policy-change events are generated when the authorization rights are assigned or revoked using `vserver cifs users-and-groups privilege` related commands.

The following example displays an authorization policy event with the ID 4704 generated, when the authorization rights for a SMB user group are assigned:

```
netapp-clus1::*> vserver cifs users-and-groups privilege add-privilege
-user-or-group-name testcifslocalgroup -privileges *
- System
- Provider
[ Name] NetApp-Security-Auditing
[ Guid] {3CB2A168-FE19-4A4E-BDAD-DCF422F13473}
EventID 4704
EventName User Right Assigned
...
...
TargetUserOrGroupName testcifslocalgroup
TargetUserOrGroupDomainName NETAPP-CLUS1
TargetUserOrGroupSid S-1-5-21-2447422786-1297661003-4197201688-1004;
PrivilegeList
SeTcbPrivilege;SeBackupPrivilege;SeRestorePrivilege;SeTakeOwnershipPrivilege;SeSecurityPrivilege;SeChangeNotifyPrivilege;
TargetType CIFS
```

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