



# Summary of the REST resource categories

## ONTAP Automation

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# Summary of the REST resource categories

The resources available through the ONTAP REST API are organized in categories, as displayed on the ONTAP API documentation page. A brief description of each of the resources with the base resource paths is presented below, along with additional usage considerations where appropriate.

This section describes the REST resources for the latest version of the product. If you need to understand the changes that were made from the previous version, see the *Release Notes*.



For many of the REST endpoints, you can include a UUID key as part of the path string to access a specific object instance. However, you can also access objects using a property value on a query parameter.

## Related links

[Additional considerations when using the REST API](#)

[API reference](#)

[ONTAP 9 Release Notes](#)

## Application

You can use these API calls to manage the ONTAP application resources.

### Applications

The ONTAP applications are arranged based on type, including: templates, applications, components, and Snapshot copies. This resource type was introduced with ONTAP 9.6.

### Application snapshots

Applications support snapshot copies, which can be created or restored at any time. This resource type was introduced with ONTAP 9.6.

## Cloud

You can use these API calls to manage connections to object storage resources in the cloud.

### Targets

A target represents an object storage resource in the cloud. Each target includes the configuration information needed to connect to the storage resource. This resource type was introduced with ONTAP 9.6.

## Cluster

You can use these API calls to manage ONTAP clusters and the related resources.

## **Capacity pools**

The capacity pools licensing model allows you to license storage capacity for each cluster node from a shared pool. This resource type is new with ONTAP 9.8.

## **Chassis**

The chassis is the hardware framework supporting a cluster. This resource type was introduced with ONTAP 9.6.

## **Clusters**

An ONTAP cluster contains one or more nodes and the related configuration settings which define the storage system. This resource type was introduced with ONTAP 9.6.

## **Firmware**

You can retrieve a history of the firmware update requests. This resource type is new with ONTAP 9.8.

## **Jobs**

Asynchronous REST API requests are performed using a background task anchored by a job. This resource type was introduced with ONTAP 9.6.

## **License managers**

You can manage configuration and other information related to each license manager instance associated with an ONTAP cluster. This resource type is new with ONTAP 9.8.

## **Licenses**

The licenses allow you to implement specific ONTAP features and functionality. This resource type was introduced with ONTAP 9.6.

## **License instance**

Each license can be managed as a separate package. This resource type was introduced with ONTAP 9.6.

## **Mediators**

You can manage the mediator associated with MetroCluster, including adding or removing the mediator instance. This resource type is new with ONTAP 9.8.

## **MetroCluster**

You can create and manage a MetroCluster deployment, including executing switchover or switchback operations. This resource type is new with ONTAP 9.8.

## **MetroCluster diagnostics**

You can perform a diagnostic operation on a MetroCluster deployment and retrieve the results. This resource type is new with ONTAP 9.8.

### **MetroCluster DR groups**

You can perform operations related to the MetroCluster DR groups. This resource type is new with ONTAP 9.8.

### **MetroCluster interconnects**

You can retrieve the MetroCluster interconnect status. This resource type is new with ONTAP 9.8.

### **MetroCluster nodes**

You can retrieve the status of the individual nodes in a MetroCluster deployment. This resource type is new with ONTAP 9.8.

### **MetroCluster operations**

You can retrieve a list of the recently executed operations for a MetroCluster configuration. This resource type is new with ONTAP 9.8.

### **Nodes**

ONTAP clusters are composed of one or more nodes. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.8.

### **NTP keys**

The Network Time Protocol (NTP) can be configured to use shared private keys between ONTAP and trusted external NTP time servers. This resource type was introduced with ONTAP 9.7.

### **NTP server**

You can use these API calls to configure the ONTAP Network Time Protocol settings, including the external NTP servers and keys. This resource type was introduced with ONTAP 9.7.

### **Peers**

The peer objects represent endpoints and support the cluster peering relationships. This resource type was introduced with ONTAP 9.6.

### **Schedules**

Schedules can be used to automate the perform of tasks. This resource type was introduced with ONTAP 9.6.

### **Software**

An ONTAP cluster includes the cluster software profile, software packages collection, and software history collection. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.8.

## **Name services**

You can use these API calls to manage the name services supported by ONTAP.

### **DDNS**

You can display the Dynamic DNS (DDNS) information and manage the DDNS subsystem. This resource type is new with ONTAP 9.8.

## **DNS**

DNS supports the integration of the ONTAP cluster in your network. This resource type was introduced with ONTAP 9.6.

## **LDAP**

LDAP servers can be used to maintain user information. This resource type was introduced with ONTAP 9.6.

### **Name mappings**

Name mappings allow you to map identities from one name domain to another. For example, you can map identities from CIFS to UNIX, Kerberos to UNIX, and UNIX to CIFS. This resource type was introduced with ONTAP 9.6.

## **NIS**

NIS servers can be used to authenticate users and client workstations. This resource type was introduced with ONTAP 9.6.

### **UNIX users and groups**

Local UNIX users and groups have been a part of previous ONTAP releases. However, support has now been added to the REST API allowing you to display and manage the users and groups. These REST resource types were introduced with ONTAP 9.9

# **NAS**

You can use these API calls to manage the CIFS and NFS settings for the cluster and SVMs.

### **Audit log redirect**

You can redirect NAS auditing events to a specific SVM. This resource type is new with ONTAP 9.8.

### **Audit**

Certain CIFS and NFS events can be logged for the SVMs, which can help to improve security. This resource type was introduced with ONTAP 9.6.

### **CIFS home directory search paths**

Home directories for SMB users on a CIFS server can be created without creating an individual SMB share for each user. The home directory search path is a set of absolute paths from the root of an SVM. This resource type was introduced with ONTAP 9.6.

### **CIFS services**

The core configuration of the CIFS server. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.7.

### **CIFS sessions**

You can use this API to retrieve detailed information about a CIFS session. This resource type was introduced with the ONTAP 9.8 REST API and enhanced with ONTAP 9.9.

## **CIFS shares**

The SMB shares defined at a CIFS server. This resource type was introduced with ONTAP 9.6.

## **CIFS shares ACLs**

The access control lists (ACLs) controlling access to folders and files on the CIFS shares. This resource type was introduced with ONTAP 9.6.

## **CIFS UNIX symlink mapping**

Both CIFS and UNIX clients can access the same datastore. When UNIX clients create symbolic links, these mappings provide a reference to another file or folder to support the CIFS clients. This resource type was introduced with ONTAP 9.6.

## **File access tracing**

You can use these API calls to trace access to specific files. This resource type is new with ONTAP 9.8.

## **File security permissions**

You can use these API calls displays the effective permission granted to Windows or Unix user for a specific file or folder. You can also manage NTFS file security and audit policies. This resource type was introduced with the ONTAP 9.8 REST API and significantly enhanced with ONTAP 9.9.

## **FPolicy**

FPolicy is a file access notification framework used to monitor and manage file access events on the SVMs. This resource type was introduced with ONTAP 9.6.

## **FPolicy engines**

The FPolicy engines allow you to identify the external servers that receive the file access notifications. This resource type was introduced with ONTAP 9.6.

## **FPolicy events**

The configuration identifying how file access is monitored and what events are generated. This resource type was introduced with ONTAP 9.6.

## **FPolicy policies**

A container for elements of the FPolicy framework, including FPolicy engines and events. This resource type was introduced with ONTAP 9.6.

## **NFS connected clients**

You can display a list of connected clients with the details of their connection. This resource type was introduced with ONTAP 9.7.

## **NFS export policies**

The policies including rules that describe the NFS exports. This resource type was introduced with ONTAP 9.6.

### **NFS Kerberos interfaces**

The configuration settings for an interface to Kerberos. This resource type was introduced with ONTAP 9.6.

### **NFS Kerberos realms**

The configuration settings for Kerberos realms. This resource type was introduced with ONTAP 9.6.

### **NFS services**

The core configuration of the NFS server. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.7.

### **Vscan**

A security feature to protect your data from viruses and other malicious code. This resource type was introduced with ONTAP 9.6.

### **Vscan on-access policies**

The Vscan policies allowing files objects to be actively scanned when accessed by a client. This resource type was introduced with ONTAP 9.6.

### **Vscan on-demand policies**

The Vscan policies allowing files objects to be immediately scanned on demand or according to a set schedule. This resource type was introduced with ONTAP 9.6.

### **Vscan scanner pools**

A set of attributes used to manage the connection between ONTAP and an external virus-scanning server. This resource type was introduced with ONTAP 9.6.

### **Vscan server status**

The status of the external virus-scanning server. This resource type was introduced with ONTAP 9.6.

## **NDMP**

The Network Data Management Protocol provides a standard for backing up NAS devices. You can use these API calls to manage the NDMP services.

### **NDMP mode**

The NDMP operational mode can be SVM scope or node scope. This resource type was introduced with ONTAP 9.7.

### **NDMP nodes**

You can manage the NDMP configuration of the nodes. This resource type was introduced with ONTAP 9.7.

### **NDMP sessions**

You can retrieve and delete NDMP session details for a specific SVM or node. This resource type was introduced with ONTAP 9.7.



## **NDMP SVMs**

You can manage the NDMP configuration of the SVMs. This resource type was introduced with ONTAP 9.7.

## **NDMP SVM user passwords**

You can generate and retrieve passwords for a specific NDMP user within the SVM content. This resource type was introduced with the ONTAP 9.8 REST API and enhanced with ONTAP 9.9.

# **Networking**

You can use these API calls to manage the physical and logical networking resources used with the cluster.

## **Ethernet broadcast domains**

An Ethernet broadcast domain is a set of physical ports that appear to be part of the same physical network. All the ports receive a packet when broadcast from one of the ports in the domain. Each broadcast domain is part of an IPspace. This resource type was introduced with ONTAP 9.6.

## **Ethernet ports**

An Ethernet port is a physical or virtual networking endpoint. The ports can be combined into a Link Aggregate Group (LAG) or separated using a Virtual LAN (VLAN). This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.8.

## **Ethernet switch ports**

You can retrieve the port information for an Ethernet switch. This resource type is new with ONTAP 9.8.

## **Ethernet switches**

You can retrieve or modify the configuration for Ethernet switches used for the ONTAP cluster or storage network. This resource type is new with ONTAP 9.8.

## **Fibre Channel interfaces**

A Fibre Channel interface is a logical endpoint associated with an SVM. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.8.

## **Fibre Channel ports**

A Fibre Channel port is a physical adapter on an ONTAP node used to connect to the Fibre Channel network. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.8.

## **HTTP proxy**

You can configure an HTTP proxy for either an SVM or a cluster IPspace. This resource type was introduced with ONTAP 9.7.

## **BGP peer groups**

You can create and administer Border Gateway Protocol peer groups. This resource type was introduced with ONTAP 9.7.

## **IP interfaces**

A logical interface (LIF) is an IP address with additional configuration attributes. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.8.

## **IP routes**

A routing table is a collection of IP routes used to forward traffic to its destination. This resource type was introduced with ONTAP 9.6.

## **IP service policies**

The IP service policies define the services available at a specific LIF. Service policies can be configured within the context of an SVM or IPspace. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.8.

## **IPspaces**

An IPspace creates a networking space to support one or more SVMs. The IPspaces can be isolated from each other, providing security and privacy. This resource type was introduced with ONTAP 9.6.

# **NVMe**

You can use these API calls to manage resources supporting non-volatile memory express (NVMe).

## **Fibre Channel logins**

Fibre Channel logins represent connections formed by Fibre Channel initiators logged in to ONTAP. This resource type was introduced with ONTAP 9.6.

## **NVMe interfaces**

NVMe interfaces are the network interfaces configured to support the NVMe over Fabrics (NVMe-oF) protocol. This resource type was introduced with ONTAP 9.6.

## **NVMe services**

An NVMe service defines the properties of the NVMe controller target for an SVM. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.7.

## **NVMe subsystem controllers**

The NVMe subsystem controllers represent dynamic connections between hosts and a storage solution. This resource type was introduced with ONTAP 9.6.

## **NVMe subsystem maps**

An NVMe subsystem map is an association of an NVMe namespace with an NVMe subsystem. This resource type was introduced with ONTAP 9.6.

## **NVMe subsystems**

An NVMe subsystem maintains configuration state and namespace access control for a set of NVMe-connected hosts. This resource type was introduced with ONTAP 9.6.

## Namespaces

An NVMe namespace is a collection of addressable logical blocks presented to hosts connected to the SVM using the NVMe over Fabrics protocol. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.8.

# Object store

You can use these API calls to access S3-based object storage.

## Buckets

A bucket is a container of objects and is structured using an object name space. Each S3 object server can have multiple buckets. This resource type was introduced with ONTAP 9.7 and updated with ONTAP 9.8.

## Services

You can create and manage the ONTAP S3 configuration, including servers and bucket configurations. This resource type was introduced with ONTAP 9.7.

## Service buckets

A bucket is a container of objects and is structured using an object name space. You can manage the buckets for a specific S3 server. This resource type was introduced with ONTAP 9.7.

## S3 groups

You can create groups of S3 users and manage access control at the group level. This resource type is new with ONTAP 9.8.

## S3 policies

You can create an S3 policy and associate it with a resource to define various permissions. This resource type is new with ONTAP 9.8.

## Users

The S3 user accounts are maintained at the S3 server. User accounts are based on a pair of keys and associated with the buckets they control. This resource type was introduced with ONTAP 9.7.

# SAN

You can use these API calls to manage storage area networking (SAN) resources.

## Fibre Channel logins

Fibre Channel logins represent connections formed by Fibre Channel initiators that have logged in to ONTAP. This resource type was introduced with ONTAP 9.6.

## Fibre Channel WWPN aliases

A world wide port name (WWPN) is a 64-bit value uniquely identifying a Fibre Channel port. This resource type was introduced with ONTAP 9.6.

## Fibre Channel Protocol services

A Fibre Channel Protocol (FCP) service defines the properties of a Fibre Channel target for an SVM. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.7.

## igroups

An initiator group (igroup) is a collection of Fibre Channel WWPNs (world wide port names), and iSCSI IQNs (qualified names), and iSCSI EUIs (extended unique identifiers) that identify host initiators. This resource type was originally introduced with ONTAP 9.6.

Nested igroups is a new feature with ONTAP 9.9.1 and support has also been added to the REST API. This REST resource type was introduced with ONTAP 9.9.

## iSCSI credentials

The iSCSI credentials object contains authentication credentials which are used by an initiator and ONTAP. This resource type was introduced with ONTAP 9.6.

## iSCSI services

An iSCSI service defines the properties of the iSCSI target for an SVM. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.7.

## iSCSI sessions

An iSCSI session is one or more TCP connections that link an iSCSI initiator with an iSCSI target. This resource type was introduced with ONTAP 9.6.

## LUN maps

A LUN map is an association between a LUN and an initiator group. This resource type was introduced with ONTAP 9.6.

## LUNs

A LUN is the logical representation of storage in a storage area network (SAN). This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.7.

## Port sets

A port set is a collection of Fibre Channel or iSCSI network interfaces associated with the *portset* Storage VM. While this feature has existed with previous releases of ONTAP, support has now been added to the REST API. This REST resource type was introduced with ONTAP 9.9.

# Security

These API calls can be used to manage the cluster and SVM security settings.

## Cluster security

You can retrieve details of the cluster-wide security and update certain parameters. This resource type was introduced with ONTAP 9.7 and updated with ONTAP 9.8.

## **Accounts**

There is a collection of user accounts for the cluster and SVMs. This resource type was introduced with ONTAP 9.6.

### **Accounts name**

The configuration for a scoped user account. This resource type was introduced with ONTAP 9.6.

### **Audit**

The settings which determine what is logged to the audit log files. This resource type was introduced with ONTAP 9.6.

### **Audit destinations**

These settings control how audit log information is forwarded to remote systems or splunk servers. This resource type was introduced with ONTAP 9.6.

### **Audit messages**

You can retrieve the audit log messages. This resource type was introduced with ONTAP 9.6.

### **Active Directory proxy**

You can administer the SVM account information at the Active Directory server. This resource type was introduced with ONTAP 9.7.

### **LDAP authentication**

These API calls are used to retrieve and manage the cluster LDAP server configuration. This resource type was introduced with ONTAP 9.6.

### **NIS authentication**

These settings are used to retrieve and manage the cluster NIS server configuration. This resource type was introduced with ONTAP 9.6.

### **SAML service provider**

You can display and manage the configuration for the SAML service provider. This resource type was introduced with ONTAP 9.6.

### **Password authentication**

This includes the API call used to change the password for a user account. This resource type was introduced with ONTAP 9.6.

### **Public key authentication**

You can use these API calls to configure the public keys for user accounts. This resource type was introduced with ONTAP 9.7.

## **AWS KMS**

This set of API calls allows you to use the Amazon Web Services Key Management Service to store the ONTAP encryption keys. This resource type is new with ONTAP 9.8.

## **Azure Key Vault**

This set of API calls allows you to use the Azure Key Vault to store the ONTAP encryption keys. This resource type is new with ONTAP 9.8.

## **Certificates**

The APIs calls can be used to install, display, and delete certificates used by ONTAP. This resource type was introduced with ONTAP 9.7.

## **GCP KMS**

This set of API calls allows you to use the Google Cloud Platform Key Management Service to store and manage the ONTAP encryption keys. This resource type was initially introduced with the ONTAP 9.8 REST API. However, this feature has been redesigned and so is considered to be new, with new resources types, in ONTAP 9.9.

## **IPSec**

Internet Protocol Security (IPSec) is a suite of protocols providing security between two endpoints over an underlying IP network. This resource type is new with ONTAP 9.8.

### **IPSec policies**

You can use this set of API calls to manage the policies in effect for an IPSec deployment. This resource type is new with ONTAP 9.8.

### **IPSec security associations**

You can use this set of API calls to manage the security associations in effect for an IPSec deployment. This resource type is new with ONTAP 9.8.

## **Key managers**

A key manager allows client modules within ONTAP to securely stored keys. This resource type was introduced with ONTAP 9.6 and updated for ONTAP 9.7.

## **Login messages**

Used to display and manage the login messages used by ONTAP. This resource type was introduced with ONTAP 9.6.

## **Roles**

The roles provide a way to assign privileges to user accounts. This resource type was introduced with ONTAP 9.6.

### **Roles instance**

Specific instance of a role. This resource type was introduced with ONTAP 9.6.

### Privileges for a role instance

Manage the privileges for a specific role. This resource type was introduced with ONTAP 9.6.

### SSH

These calls allow you to set the SSH configuration. This resource type was introduced with ONTAP 9.7.

## SnapLock

SnapLock is a storage-based implementation of the traditional WORM (write once, read many) optical solution and provides for the long-term retention of data. You can use these API calls to administer the SnapLock feature.

### Log

The SnapLock log structure is based on directories and files on a specific volume which contain the log records. Log files are filled and archived based on the maximum log size. This resource type was introduced with ONTAP 9.7.

### Compliance clock

The compliance clock determines the expiration time of the SnapLock objects. The clock must be initialized outside of the REST API and cannot be changed. This resource type was introduced with ONTAP 9.7.

### Event retention

You can use the SnapLock Event Based Retention (EBR) feature to define how long a file is retained after the occurrence of an event. This resource type was introduced with ONTAP 9.7.

### File retention and privileged delete

You can manage the retention time of a file created by SnapLock. If needed, you can also delete unexpired WORM files on a SnapLock enterprise volume. This resource type was introduced with ONTAP 9.7.



The only built-in role with authority to execute the delete operation is vsadmin-snaplock.

### File fingerprint

You can view and manage the core information describing files and volumes, such as type and expiration date. This resource type was introduced with ONTAP 9.7.

### Legal hold

You can use these API calls to manage files that are part of a litigation process. This resource type was introduced with ONTAP 9.7.

## SnapMirror

You can use these API calls to manage the SnapMirror data protection technology.

## **Policies**

The SnapMirror policies are applied to relationships, and control the configuration attributes and behavior of each relationship. This resource type was introduced with ONTAP 9.6.

## **Relationships**

Both asynchronous and synchronous relationships establish the connectivity needed transfer data. This resource type was introduced with ONTAP 9.6.

## **Relationships transfers**

You can manage the SnapMirror transfers over existing SnapMirror relationships. This resource type was introduced with ONTAP 9.6.

# **Storage**

You can use these API calls to manage the physical and logical storage.

## **Aggregates**

An aggregate consists of one or more RAID groups. This resource type was introduced with ONTAP 9.6.

## **Aggregate plexes**

A physical copy of the WAFL storage within an aggregate. This resource type was introduced with ONTAP 9.6.

## **Aggregate metrics**

You can retrieve historical metrics data for a specific aggregate. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.7.

## **Bridges**

You can retrieve the bridges in a cluster. This resource type was introduced with ONTAP 9.9.

## **Disks**

The physical disks in the cluster. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.7 and 9.8.

## **FlexCaches**

This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.8.

## **FlexCache origins**

FlexCache is a persistent cache of an origin volume. This resource type was originally introduced with ONTAP 9.6. Support has been enhanced with the ONTAP 9.9 REST API to support modification through the HTTP PATCH method.

## **Monitored files**

You can designate specific files for additional monitoring. This resource type is new with ONTAP 9.8.



## **Ports**

Storage ports of the cluster. This resource type was introduced with ONTAP 9.6.

## **QOS policies**

Quality of service policy configuration. This resource type was introduced with ONTAP 9.6.

## **Qtrees**

You can use these API calls to management Qtrees, a type of logically divided file system. This resource type was introduced with ONTAP 9.6.

## **Quota reports**

Report on quotas, which is a technique for restricting or tracking files or space usage. This resource type was introduced with ONTAP 9.6.

## **Quota rules**

The rules used to enforce the quotas. This resource type was introduced with ONTAP 9.6 and updated with ONTAP 9.7.

## **Shelves**

Shelves in the cluster. This resource type was introduced with ONTAP 9.6.

## **Snapshot policies**

Snapshots are created based on policies. This resource type was introduced with ONTAP 9.6.

## **Snapshot schedules**

You can control the snapshot schedules. This resource type is newly redesigned with ONTAP 9.8.

## **Switches**

You can retrieve the switches in a cluster. This resource type was introduced with ONTAP 9.9.

## **Tape devices**

You can retrieve the tape devices in a cluster. This resource type was introduced with ONTAP 9.9.

## **Volume efficiency policies**

You can use these API calls to configure the efficiencies applied to an entire volume. This resource type is new with ONTAP 9.8.

## **Volumes**

Logical containers are used to serve data to clients. This resource type was originally introduced with ONTAP 9.6 REST API. Many of the parameter values used with the API were significantly expanded with ONTAP 9.9 including those used with space management.

## **Volume files**

You can retrieve a list of files and directories for a specific directory on a volume. This resource type was introduced with ONTAP 9.7 and updated with ONTAP 9.8.

## **Volumes Snapshots**

Snapshots for a volume. This resource type was introduced with ONTAP 9.6.

# **Support**

You can use these API calls to manage the ONTAP features used to support a cluster.

## **AutoSupport**

AutoSupport collects configuration and status details as well as errors, and reports the information to NetApp. This resource type was introduced with ONTAP 9.6.

## **AutoSupport messages**

Each node maintains AutoSupport messages that can be generated and retrieved. This resource type was introduced with ONTAP 9.6.

## **Configuration backup**

You can use these APIs to retrieve and update the current backup settings. This resource type was introduced with ONTAP 9.6.

## **Configuration backup operations**

You can create, retrieve, and delete configuration backup files. This resource type was introduced with ONTAP 9.7.

## **EMS**

The event management system (EMS) collects events and sends notifications to one or more destinations. This resource type was introduced with ONTAP 9.6.

## **EMS destinations**

The EMS destinations determine how and where notifications are sent. This resource type was introduced with ONTAP 9.6.

## **EMS destinations instance**

An EMS destination instance is defined by type and location. This resource type was introduced with ONTAP 9.6.

## **EMS events**

This is a live collection of system events for the cluster. This resource type was introduced with ONTAP 9.6.

## **EMS filters**

The EMS filters collectively identify the events that require additional processing. This resource type was introduced with ONTAP 9.6.

### **EMS filters instance**

An EMS filter instance is a collection of rules that are applied to the events. This resource type was introduced with ONTAP 9.6.

### **EMS rules for filter instance**

A list of rules can be managed for a specific instance of an EMS filter. This resource type was introduced with ONTAP 9.6.

### **EMS rules instance for filter instance**

An individual rule for a specific instance of an EMS filter. This resource type was introduced with ONTAP 9.6.

## **EMS messages**

Provides access to the EMS event catalog. This resource type was introduced with ONTAP 9.6.

## **SNMP**

You can enable and disable SNMP and trap operations for the cluster. This resource type was introduced with ONTAP 9.7.

### **SNMP trap host**

An SNMP trap host is a system that is configured to receive SNMP traps from ONTAP. You can retrieve and define the hosts. This resource type was introduced with ONTAP 9.7.

### **SNMP trap host instance**

You can manage specific SNMP trap hosts. This resource type was introduced with ONTAP 9.7.

### **SNMP users**

You can define and administer SNMP users. This resource type was introduced with ONTAP 9.7.

### **SNMP user instance**

You can administer a specific SNMP user where the engine ID is associated with the administrative SVM or a data SVM. This resource type was introduced with ONTAP 9.7.

## **SVM**

You can use these API calls to manage storage virtual machines (SVMs).

### **Peer permissions**

Peer permissions can be assigned which enable the SVM peering relationships. This resource type was introduced with ONTAP 9.6.

**Peers**

The peering relationships establish connectivity among the SVMs. This resource type was introduced with ONTAP 9.6.

**SVMs**

You can manage the SVMs that are bound to a cluster. This resource type was introduced with ONTAP 9.6.

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