



## **application commands**

### ONTAP commands

NetApp

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# application commands

## application create

(DEPRECATED)-Create an application

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *advanced* privilege level.

### Description



This command is deprecated and may be removed in a future release of Data ONTAP.

This command creates an application from an application template. It provisions storage for the application and optionally performs additional configuration.

### Parameters

**-vserver <vserver name> - Vserver (privilege: advanced)**

The Vserver in which the application is created.

**-application <text> - Application (privilege: advanced)**

The name for the application to create.

**-application-template <text> - Application Template (privilege: advanced)**

The application template upon which to base creation of the application.

**[-parameters <key-value-pair>,...] - Application Template Customization Parameters (privilege: advanced)**

A comma separated list of parameter names and their values to customize the application template for the desired application. The specific parameters which may be used to customize an application vary depending on the specified application template.

For each template, there are both required and optional parameters. Attempting to execute the command without a required parameter will result in failure and a message identifying the missing parameter. Command line tab-completion provides lists of parameters and descriptions of the syntax required to specify the parameter values.

A parameter and its value is specified as: *parameter-name:parameter-value*. Multiple parameters are specified by separating them with a comma as: *parameter1-name:parameter1-value,parameter2-name:parameter2-value*. The correct syntax for specifying a parameter value depends on the type of the parameter.

Some parameters must be specified for multiple instances of the same type of object. These are specified using a zero-based array index to identify each unique object. These types of objects have sub-parameters that provide values for specific attributes of each object. A sub-parameter and its value for the Nth instance of an object is specified as: *object-type[n].sub-parameter-name:sub-parameter-value*.

**[-foreground {true|false}] - Execute in the Foreground (privilege: advanced)**

A boolean value that determines if the application creation executes synchronously at the command prompt in the foreground or asynchronously in the background. If this parameter is not supplied, it defaults to true

and the application creation is executed synchronously at the command prompt.

## Examples

The following command creates application *app1* in Vserver *vs1* based on the *SAN* application template with 5 LUNs totaling 200 GB in size and maps the new application LUNs to initiator group *ig1*.

```
cluster1::> application create -vserver vs1 -application app1 -application-  
-template SAN -parameters os-type:linux,application-  
components[0].name:data,application-components[0].total-  
size:200GB,application-components[0].lun-count:5,application-  
components[0].igroup-name:ig1
```

# application delete

Delete an application

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *advanced* privilege level.

## Description

This command deletes an application.

## Parameters

**-vserver <vserver name>** - Vserver (privilege: advanced)

The Vserver from which to delete the application.

**-application <text>** - Application (privilege: advanced)

The name of the application to delete.

**[-foreground {true|false}]** - Execute in the Foreground (privilege: advanced)

A boolean value that determines if the application deletion executes synchronously at the command prompt in the foreground or asynchronously in the background. If this parameter is not supplied, it defaults to true and the application deletion is executed synchronously at the command prompt.

## Examples

The following command deletes application *app1* from Vserver *vs1*.

```
cluster1::> application delete -vserver vs1 -application app1
```

# application modify

(DEPRECATED)-Modify properties of an application

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *advanced* privilege level.

## Description

This command modifies properties of an application. The user must specify the names of one or more existing application components of an existing application and properties to apply to those application components. The command fails and the application remains in its initial state unless all of the application components can be modified at once.

## Parameters

**-vserver <vserver name>** - **Vserver (privilege: advanced)**

The Vserver hosting the application.

**-application <text>** - **Application (privilege: advanced)**

The name of the application to modify.

**-application-components <Application Component>,...** - **Application Components (privilege: advanced)**

A list of application component names to modify.

**[-storage-service <text>]** - **Storage Service (privilege: advanced)**

The new storage service to use for the listed application components. The [storage-service show](#) command displays the available storage services.

If the current aggregates hosting the application components can accommodate the requested storage service, the application components are modified to use the new storage service.

If the current aggregates hosting the application components cannot accommodate the requested storage service, the command fails and all the specified application components continue with their existing storage services.

Modifying the storage service of application components results in modifying the associated QoS policies to reflect the new storage service. The contents of the application components continue to remain on the same storage elements.

**[-foreground {true|false}]** - **Execute in the Foreground (privilege: advanced)**

A boolean value that determines if the application modification executes synchronously at the command prompt in the foreground or asynchronously in the background. If this parameter is not supplied, it defaults to true and the application modification is executed synchronously at the command prompt.

## Examples

The following command modifies application *app1* in Vserver *vs1* based on the *BasicModify* application template. Application components *component1* and *component2* are modified to use the *extreme* storage service.

```
cluster1::> application modify -vserver vs1 -application app1 -application
-components component1,component2 -storage-service extreme
```

## Related Links

- [storage-service show](#)

# application show-detail

Display application details

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

This command displays storage and protocol elements of applications.

## Parameters

**{ [-fields <fieldname>,...]**

Specifies fields that you want included in the output. You can use `-fields ?` to display the available fields.

**| [-instance ] }**

Specifies the display of all available fields for each selected application.

**[-vserver <vserver name>] - Vserver**

Selects elements of applications belonging to Vservers that match the parameter value.

**[-application <text>] - Application**

Selects elements of applications with an application name that matches the parameter value.

**[-element-type {lun|lun-clone|nas|igroup}] - Type of Object**

Selects application elements with type that matches the parameter value. Possible values are *lun* for application provisioned LUNs on SAN applications, *lun-clone* for auxiliary LUNs in SAN applications, *igroup* for protocol elements in SAN applications and *nas* for application provisioned storage and protocol information in NAS applications.

**[-application-component <text>] - Application Component**

Selects application elements which belong to the application component that matches the parameter value. Only application provisioned storage elements of type *lun*, *nas* can belong to application components.

**[-element-name <text>] - Name of Object**

Selects application elements with an element name that matches the parameter value.

**[-application-template <text>] - Application Template**

Selects application elements that belong to applications with templates that match the parameter value.

**[-application-template-version <integer>] - Application Template Version**

Selects application elements that belong to applications with template version that match the parameter value.

**[-application-uuid <UUID>] - Application UUID**

Selects application elements that belong to applications whose UUID matches the parameter value.

**[-application-component-uuid <UUID>] - Application Component UUID**

Selects application elements which belong to the application component whose UUID that matches the parameter value.

**[-application-component-storage-service <text>] - Storage Service**

Selects application elements which belong to the application component with a storage service that matches the parameter value.

**[-nas-element-path <junction path>] - Volume Path**

Selects application elements with a NAS element path that matches the parameter value. This field is valid only for elements of type *nas*.

**[-nas-element-size {<integer>[KB|MB|GB|TB|PB]}] - Volume Size**

Selects application elements with NAS element size that matches the parameter value. This field is valid only for elements of type *nas*.

**[-cifs-share-name <Share>] - CIFS Share Name**

Selects application elements with a CIFS share that matches the parameter value. This field is valid only for elements of type *nas*.

**[-cifs-server-fqdn <text>] - CIFS Server Name**

Selects application elements with a CIFS Server that matches the parameter value. This field is valid for only elements of type *nas*.

**[-cifs-permissions <text>,...] - CIFS User Permissions**

Selects application elements with CIFS Permissions that matches the parameter value. This field is valid for only elements of type *nas*.

**[-cifs-access-ips <IP Address>,...] - Recommended LIFs for CIFS**

Selects application elements with CIFS LIFs that matches the parameter value. This field is valid for only elements of type *nas*. The CIFS access IPs are recommended LIFs for CIFS access. If LIFs local to the volume are available, then these are recommended. If not, two remote LIFs are returned. Data can be accessed over other available LIFs but that is not recommended.

**[-nfs-export-policy-name <export policy name>] - Export Policy Name**

Selects application elements with an export policy name that matches the parameter value. This field is valid for only elements of type *nas*.

**[-nfs-permissions <text>,...] - NFS Permissions**

Selects application elements with NFS permissions that matches the parameter value. This field is valid for only elements of type *nas*.

**[-nfs-access-ips <IP Address>,...] - Recommended LIFs for NFS**

Selects application elements with NFS LIFs that matches the parameter value. This field is valid for only elements of type *nas*. The NFS access IPs are recommended LIFs for NFS access. If LIFs local to the volume are available, then these are recommended. If not, two remote LIFs are returned. Data can be accessed over other available LIFs but that is not recommended.

**[-lun <text>] - LUN Name**

Selects application elements with a LUN name that matches the parameter value. This field is valid for only elements of type *lun* and *lun-clone*.

**[-lun-path <path>] - LUN Path**

Selects application elements with LUN path that matches the parameter value. This field is valid for only elements of type *lun* and *lun-clone*.

**[-serial <text>] - LUN Serial**

Selects application elements with a LUN serial number that matches the parameter value. This field is valid for only elements of type *lun* and *lun-clone*.

**[-lun-ids <integer>,...] - LUN IDs**

Selects application elements with LUN IDs that match the parameter value. This field is valid for only elements of type *lun* and *lun-clone*.

**[-size {<integer>[KB|MB|GB|TB|PB]}] - Element Size**

Selects application elements with a LUN size that matches the parameter value. This field is valid for only elements of type *lun* and *lun-clone*.

**[-igroups <text>,...] - Igroups**

Selects application elements mapped to igroups with names that match the parameter value. This field is valid for only elements of type *lun* and *lun-clone*.

**[-initiator <text>,...] - Initiators**

Selects application elements mapped to initiators that matches the parameter value. This field is valid for only elements of type *igroup*.

**[-is-protection-supported {true|false}] - Is Protection Supported**

Selects applications with is-protection-supported flag that matches the parameter value. The is-protection-supported flag indicates if any type of protection is supported for the application.

**[-is-protected {true|false}] - Is Application Protected**

Selects applications with is-protected flag that matches the parameter value. The is-protected flag indicates if any type of protection is enabled for the application.

**[-local-RPO <text>] - Local RPO**

Selects applications with local-RPO that matches the parameter value.

**[-local-RPO-description <text>] - Local RPO description**

Selects applications with local-RPO-descriptions that match the parameter value. The local RPO description provides details about the local RPO associated with the application.

**[-remote-RPO <text>] - Remote RPO**

Selects applications with remote-RPO that matches the parameter value.

**[-remote-RPO-description <text>] - Remote RPO description**

Selects applications with remote-RPO-descriptions that match the parameter value. The remote RPO description provides details about the remote RPO associated with the application.

## Examples

```
cluster1::> application show-detail -vserver vs0
rupancluster-1::*> application show-detail
=====
===
          Vserver: vs0
          Application: my_nas_app
          Application Template: NAS
=====
===
NAS Storage Element
-----
          Component: data
          Storage Service: value
          Element: my_nas_app_data_1
          Path: /my_nas_app_data_1
          Size: 30MB
          CIFS Share: my_nas_app_data_1
          CIFS Server: KTCIFS.
          CIFS User Permissions: Everyone / Read
          CIFS LIFs: 10.10.10.20
          Export Policy: my_nas_app
          NFS Permissions: 0.0.0.0/0 / ro
          NFS LIFs: 10.10.10.20
=====

===
          Vserver: vs0
          Application: my_san_app
          Application Template: SAN
=====
===
SAN Storage Element
-----
          Component: data_group1
          Storage Service: value
          Element: data_group1_1
          Path: /vol/my_san_app_data_group1_1/data_group1_1
          Serial Number: w89ST?JTeR7V
          Size: 60MB
          Igroups: igrp1
          LUN IDs: 0
SAN Storage Element
-----
          Component: data_group1
```

```
Storage Service: value
    Element: data_group1_2
        Path: /vol/my_san_app_data_group1_1/data_group1_2
Serial Number: w89ST?JTeR7W
    Size: 60MB
    Igroups: igrup1
    LUN IDs: 1

SAN Storage Element
-----
    Component: data_group1
    Storage Service: value
        Element: data_group1_3
            Path: /vol/my_san_app_data_group1_1/data_group1_3
    Serial Number: w89ST?JTeR7X
        Size: 60MB
        Igroups: igrup1
        LUN IDs: 2

SAN Storage Element
-----
    Component: data_group1
    Storage Service: value
        Element: data_group1_4
            Path: /vol/my_san_app_data_group1_1/data_group1_4
    Serial Number: w89ST?JTeR7Y
        Size: 60MB
        Igroups: igrup1
        LUN IDs: 3

SAN Storage Element
-----
    Component: redolog_group1
    Storage Service: value
        Element: redolog_group1_1
            Path:
/vol/my_san_app_redolog_group1_1/redolog_group1_1
    Serial Number: w89ST?JTeR7Z
        Size: 120MB
        Igroups: igrup2
        LUN IDs: 0

SAN Storage Element
-----
    Component: redolog_group1
    Storage Service: value
        Element: redolog_group1_2
            Path:
/vol/my_san_app_redolog_group1_1/redolog_group1_2
    Serial Number: w89ST?JTeR7/
```

```

        Size: 120MB
        Igroups: igrup2
        LUN IDs: 1

Auxiliary LUN
-----
Element: redolog_group1_2_clone
Path:
/vol/my_san_app_redolog_group1_1/redolog_group1_2_clone
Serial Number: w89ST?JTeR7a
Size: 120MB

SAN Protocol Info
-----
Igroup: igrup1
Initiators: iqn.1995-08.com.example3, iqn.1995-
08.com.example4

SAN Protocol Info
-----
Igroup: igrup2
Initiators: iqn.1995-08.com.example1, iqn.1995-
08.com.example2

10 entries were displayed.

```

The above example displays the details of all applications in Vserver vs0.

```

cluster1: : > application show-detail -vserver vs0 -application my_san_app
Vserver: vs0
        Application: my_san_app
        Application Template: SAN
SAN Storage Element
-----
        Component: data_group1
        Storage Service: value
        Element: data_group1_1
        Path: /vol/my_san_app_data_group1_1/data_group1_1
        Serial Number: w89ST?JTeR7V
        Size: 60MB
        Igroups: igrup1, igrup2
        LUN IDs: 0, 0

SAN Storage Element
-----
        Component: data_group1
        Storage Service: value
        Element: data_group1_2
        Path: /vol/my_san_app_data_group1_1/data_group1_2
        Serial Number: w89ST?JTeR7W

```

```
        Size: 60MB
        Igroups: igrp1, igrp2
        LUN IDs: 1, 1
SAN Storage Element
-----
        Component: data_group1
        Storage Service: value
        Element: data_group1_3
        Path: /vol/my_san_app_data_group1_1/data_group1_3
        Serial Number: w89ST?JTeR7X
        Size: 60MB
        Igroups: igrp1, igrp2
        LUN IDs: 2, 2
SAN Storage Element
-----
        Component: data_group1
        Storage Service: value
        Element: data_group1_4
        Path: /vol/my_san_app_data_group1_1/data_group1_4
        Serial Number: w89ST?JTeR7Y
        Size: 60MB
        Igroups: igrp1, igrp2
        LUN IDs: 3, 3
SAN Storage Element
-----
        Component: redolog_group1
        Storage Service: value
        Element: redolog_group1_1
        Path:
/vol/my_san_app_redolog_group1_1/redolog_group1_1
        Serial Number: w89ST?JTeR7Z
        Size: 120MB
        Igroups: igrp2
        LUN IDs: 0
SAN Storage Element
-----
        Component: redolog_group1
        Storage Service: value
        Element: redolog_group1_2
        Path:
/vol/my_san_app_redolog_group1_1/redolog_group1_2
        Serial Number: w89ST?JTeR7
        Size: 120MB
        Igroups: igrp2
        LUN IDs: 1
Auxiliary LUN
```

```

-----
Element: redolog_group1_2_clone
Path:
/vol/my_san_app_redolog_group1_1/redolog_group1_2_clone
    Serial Number: w89ST?JTeR7a
    Size: 120MB
SAN Protocol Info
-----
Igroup: igrup1
Initiators: iqn.1995-08.com.example3, iqn.1995-
08.com.example4
SAN Protocol Info
-----
Igroup: igrup2
Initiators: iqn.1995-08.com.example1, iqn.1995-
08.com.example2
9 entries were displayed.

```

The above example displays the details of application my\_san\_app in Vserver vs0.

```

cluster1: : > application show-detail -vserver vs0 -application my_san_app
-application-component data_group1
    Vserver: vs0
        Application: my_san_app
        Application Template: SAN
SAN Storage Element
-----
        Component: data_group1
        Storage Service: value
            Element: data_group1_1
            Path: /vol/my_san_app_data_group1_1/data_group1_1
            Serial Number: w89ST?JTeR7V
            Size: 60MB
            Igroups: igrup1
            LUN IDs: 0
SAN Storage Element
-----
        Component: data_group1
        Storage Service: value
            Element: data_group1_2
            Path: /vol/my_san_app_data_group1_1/data_group1_2
            Serial Number: w89ST?JTeR7W
            Size: 60MB
            Igroups: igrup1
            LUN IDs: 1

```

```

SAN Storage Element
-----
      Component: data_group1
      Storage Service: value
          Element: data_group1_3
              Path: /vol/my_san_app_data_group1_1/data_group1_3
      Serial Number: w89ST?JTeR7X
          Size: 60MB
          Igroups: igrup1
          LUN IDs: 2

SAN Storage Element
-----
      Component: data_group1
      Storage Service: value
          Element: data_group1_4
              Path: /vol/my_san_app_data_group1_1/data_group1_4
      Serial Number: w89ST?JTeR7Y
          Size: 60MB
          Igroups: igrup1
          LUN IDs: 3

4 entries were displayed.

```

The above example displays the details elements belonging to application-component data\_group1 in application my\_san\_app in Vserver vs0.

## application show-statistics

Display application statistics

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

### Description

This command displays dynamic application statistics.

### Parameters

{ [-fields <fieldname>,...]

Specifies fields that you want included in the output. You can use -fields ? to display the available fields.

| [-instance ] }

Specifies the display of all available fields for each selected application.

[-vserver <vserver name>] - Vserver

Selects applications belonging to Vservers that match the parameter value.

**[-application <text>] - Application**

Selects applications with names that match the parameter value.

**[-application-component <text>] - Application Component**

Selects application components with names that match the parameter value.

**[-application-uuid <UUID>] - Application UUID**

Selects applications with the unique identifier that match the parameter value.

**[-application-component-uuid <UUID>] - Application Component UUID**

Selects application components with the unique identifier that match the parameter value.

**[-storage-service <text>] - Storage Service**

Selects application components with storage services that match the parameter value.

This is the storage service chosen for the application component.

**[-space-provisioned {<integer>[KB|MB|GB|TB|PB]}] - Provisioned Space**

Selects applications with space provisioned that matches the parameter value.

This is the maximum space that can be consumed. In some cases, the provisioned space can be capped by the space available in the aggregate.

**[-space-used {<integer>[KB|MB|GB|TB|PB]}] - Used Space**

Selects applications with space used that matches the parameter value.

This is the space that would be actively used by the application or application component.

**[-space-used-excluding-reserves {<integer>[KB|MB|GB|TB|PB]}] - Used Space Excluding Reserves**

Selects applications with space used excluding reserves that matches the parameter value.

This is the space actively used excluding any space used from reserves.

**[-space-logical-used {<integer>[KB|MB|GB|TB|PB]}] - Logical Used Space**

Selects applications with logical space used that matches the parameter value.

This is the space actively used if there were no space efficiency technologies being employed.

**[-space-reserved-unused {<integer>[KB|MB|GB|TB|PB]}] - Unused Reserved Space**

Selects applications with unused reserved space that matches the parameter value.

This is the space that has been reserved but not used yet. It is not available to the user.

**[-space-available {<integer>[KB|MB|GB|TB|PB]}] - Available Space**

Selects applications with available space that matches the parameter value.

This is the space available to the user for any new writes. It does not include space already reserved for use earlier.

**[-space-savings {<integer>[KB|MB|GB|TB|PB]}] - Saved Space**

Selects applications with space savings that match the parameter value.

This is the space saved by using space efficiency technologies.

**[-iops-per-tb <integer>] - IOPs Per TB**

Selects applications with the number of total operations per TB that match the parameter value.

This is the cumulative total of input and output operations divided by the *space-logical-used*.

**[-iops <integer>] - Total IOPs**

Selects applications with the number of total operations that match the parameter value.

This is the cumulative total of input and output operations for the application.

**[-snapshot-reserve {<integer>[KB|MB|GB|TB|PB]}] - Snapshot Reserve**

Selects applications with the Snapshot reserve that matches the parameter value.

This is the space reserved exclusively for Snapshot usage. If Snapshot copies use more space than reserved, they will start to use *space-available*.

**[-snapshot-used {<integer>[KB|MB|GB|TB|PB]}] - Snapshot Space Used**

Selects applications with the space used for Snapshot copies that match the parameter value.

This is the total space used by Snapshot copies.

## Examples

```
cluster1::> application show-statistics
              Application  Storage      Provisioned      Used
Vserver    Application Component   Service   Space
IOPS
-----
-----
vs1        app1
            -          -          213.8GB    2.39GB
353
75
278
app2
      -          -          95GB      48.07GB
2872
2872
5 entries were displayed.
```

The above example displays all applications in the cluster. The storage service "value" is appended with an asterisk (\*) to indicate some volumes are inaccessible to the application component, resulting in inaccurate statistics. The volumes might be offline. When this occurs, the hidden `stats-incomplete` flag is also set.

## application show-template

Show the available application templates

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

This command displays information about the application templates that can be used to provision applications.

### Parameters

{ [-fields <fieldname>, ...]

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

| [-instance ] }

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-name <text>] - Template Name (privilege: advanced)**

Selects application templates that match the parameter value.

**[-purpose {create|modify}] - Purpose (privilege: advanced)**

Selects application templates with a purpose that match the parameter value. The purpose of an application template indicates with application commands with which it can be used.

**[-protocol {SAN|NAS}] - Access Protocol (privilege: advanced)**

Selects application templates with a protocol that match the parameter value. An application provides resources that are accessed through the protocol.

**[-description <text>] - Description (privilege: advanced)**

Selects application templates with a description that match the parameter value.

**[-missing-prerequisites <text>] - Missing Prerequisites (privilege: advanced)**

Selects application templates with missing prerequisites that match the parameter value. Missing prerequisites need to be met before the application template can be used to provision an application.

### Examples

```

cluster1::*> application show-template
          Access
Template Name      Protocol Purpose Description
-----
BasicModify          -      modify  Modify an application.
NAS                 NAS     create   A generic NAS application.
OracleOnNFS          NAS     create   Oracle using NFS.
OracleOnSAN          SAN     create   Oracle using SAN.
OracleRACOnNFS        NAS     create   Oracle RAC using NFS.
OracleRACOnSAN        SAN     create   Oracle RAC using SAN.
SAN                 SAN     create   A generic SAN application.
VSIONAS              NAS     create   A VSI application using NAS.
VSIONSAN             SAN     create   A VSI application using SAN.
9 entries were displayed.

```

## application show

Display applications

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

### Description

This command displays applications. An application groups storage objects to perform application-granular operations.

### Parameters

**{ [-fields <fieldname>,...]**

Specifies fields that you want included in the output. You can use `-fields ?` to display the available fields.

**| [-instance ] }**

Specifies the display of all available fields for each selected application.

**[-vserver <vserver name>] - Vserver**

Selects applications belonging to Vservers that match the parameter value.

**[-application <text>] - Application**

Selects applications with names that match the parameter value.

### Examples

```
cluster1::> application show
Vserver Application
-----
vs1      app1
          app2
          app3
          app4
4 entries were displayed.
```

The example above displays all applications in the cluster.

## application provisioning commands

### application provisioning revert-volume-qos

Convert the adaptive QoS policy to a traditional QoS policy

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

#### Description

This command prepares application volumes for a revert to the previous version of Data ONTAP. It converts adaptive QoS policies associated with application volumes to traditional QoS policies.

#### Parameters

**-vserver <vserver name>** - Vserver Name (privilege: advanced)

The Vserver of the volume whose QoS policy is to be converted.

**-volume <volume name>** - Volume Name (privilege: advanced)

The volume whose QoS policy is to be converted.

#### Examples

The following command reverts the adaptive QoS policy on volume *app1\_group1\_1* in Vserver *vs1* to a traditional QoS policy:

```
cluster1::*> application provisioning revert-volume-qos -vserver vs1
-volume app1_group1_1
```

### application provisioning config modify

Modify options for application provisioning

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

## Description

This command modifies the options for application provisioning operations.

## Parameters

**[-is-mixed-storage-services-allowed {true|false}] - Is Mixed Storage Services Allowed (privilege: advanced)**

Specifies whether mixed cost storage services are allowed for provisioning placement. If the value of this parameter is *false*, only the aggregates closest to the performance requirements of the storage service are used. If the value of this parameter is *true*, all aggregates with sufficient performance are considered. The initial value for option is *false*.

## Examples

```
cluster1::*> application provisioning config modify -is-mixed-storage
-services-allowed true
```

Enables the use of mixed storage services for provisioning placement.

## application provisioning config show

Display options for application provisioning

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

## Description

This command displays options for application provisioning.

## Examples

```
cluster1::*> application provisioning config show
Is Mixed Storage Services Allowed: false
```

# application snapshot commands

## application snapshot create

Create a snapshot for an application or protection group.

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

This command creates a Snapshot copy of a specified protection-group in a given application. Every application instance also acts as a protection-group and can be treated as one.

## Parameters

### **-vserver <vserver name> - Vserver**

This specifies the Vserver that contains the application on which the snapshot is to be created.

### **-application <text> - Application**

This specifies the name of the application where a Snapshot is to be created.

### **[-protection-group <text>] - Protection Group**

This specifies the name of the protection-group where a Snapshot is to be created. This field is optional, and if not specified, the application itself will be treated as the protection-group.

### **-snapshot <snapshot name> - Snapshot**

This specifies the name of the Snapshot that is to be created.

### **[-snapshot-consistency-type {crash|application}] - Snapshot Consistency Type**

This specifies whether the snapshot being created is application consistent or crash consistent.

### **[-comment <text>] - Comment**

This specifies a comment to be added to a Snapshot copy at the time of creation.

## Examples

The following example creates a Snapshot named snap1 on a application named myapp1 on a vserver named vs of a protection-group called myapp1.

```
cluster1::> application snapshot create -vserver vs -application myapp1  
-protection-group myapp1 -snapshot snap1
```

## application snapshot delete

Delete a snapshot belonging to an application or protection group.

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

This command deletes a Snapshot that belongs to a specified protection-group in a given application. Every application instance also acts as a protection-group and can be treated as one.

## Parameters

### **-vserver <vserver name> - Vserver**

This specifies the Vserver that contains the application on which the snapshot is to be deleted.

### **-application <text> - Application**

This specifies the name of the application from which a Snapshot is to be deleted.

#### **[-protection-group <text>] - Protection Group**

This specifies the name of the protection-group where a Snapshot is to be deleted. This field is optional, and if not specified, the application itself will be treated as the protection-group.

#### **-snapshot <snapshot name> - Snapshot**

This specifies the name of the Snapshot that is to be deleted.

#### **[-force <true>] - Force Delete**

If this parameter is specified, the Snapshot copy is immediately deleted without generating any confirmation messages. Otherwise the operation generates confirmation messages.

### **Examples**

The following example deletes a Snapshot named snap1 on a application named myapp1 on a vserver named vs of a protection-group called myapp1.

```
cluster1::> application snapshot delete -vserver vs -application myapp1  
-protection-group myapp1 -snapshot snap1
```

## **application snapshot restore**

Restore an application or protection group to a snapshot.

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

### **Description**

This command restores a Snapshot that belongs to a specified protection-group in a given application. Every application instance also acts as a protection-group and can be treated as one.

### **Parameters**

#### **-vserver <vserver name> - Vserver**

This specifies the Vserver that contains the application on which the Snapshot is to be restored.

#### **-application <text> - Application**

This specifies the name of the application that we want to restore from a Snapshot.

#### **[-protection-group <text>] - Protection Group**

This specifies the name of the protection-group where a Snapshot is to be restored. This field is optional, and if not specified, the application itself will be treated as the protection-group.

#### **-snapshot <snapshot name> - Snapshot**

This specifies the name of the Snapshot that is to be restored.

### **Examples**

The following example restores a Snapshot named snap1 on a application named myapp1 on a vserver named vs of a protection-group called myapp1.

```
cluster1::> application snapshot restore -vserver vs -application myapp1  
-protection-group myapp1 -snapshot snap1
```

## application snapshot show

Display a list of snapshots in an application or protection group.

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

### Description

This command displays snapshots in a given application or protection-group.

### Parameters

**{ [-fields <fieldname>,...]**

Specifies fields that you want included in the output. You can use `-fields ?` to display the available fields.

**| [-instance ] }**

Specifies the display of all available fields for each selected application.

**[-vserver <vserver name>] - Vserver**

Selects snapshots belonging to vservers that match the parameter value.

**[-application <text>] - Application**

Selects snapshots with application names that match the parameter value.

**[-protection-group <text>] - Protection Group**

Selects snapshots with protection-groups that match the parameter value.

**[-snapshot <snapshot name>] - Snapshot**

Selects snapshots with names that match the parameter value.

**[-create-time <Date>] - Creation Time**

Selects snapshots with creation times that match the parameter value.

**[-protection-group-uuid <UUID>] - Protection Group UUID**

Selects applications with protection-group unique identifiers that match the parameter value.

**[-application-uuid <UUID>] - Application UUID**

Selects snapshots with application unique identifiers that match the parameter value.

**[-snapshot-consistency-type {crash|application}] - Snapshot Consistency Type**

Selects snapshots with snapshot types that match the parameter value. The type field is used to differentiate between application consistent and crash consistent snapshots.

**[-comment <text>] - Comment**

Selects snapshots with comments that match the parameter value.

#### **[-is-partial {true|false}] - Partial Snapshot**

Selects snapshots with partial attributes that match the parameter value. The is-partial field is used to identify if a snapshot does not exist on all application components. A partial snapshot is still a valid snapshot. It does not exist on all application components because application components were added after the snapshot was created.

#### **Examples**

```
cluster1::> application snapshot show
Vserver: vs
Application: myapp1
Protection Group: myapp1
Snapshot          Create Time          Type
-----
myapp1_snapshot_1          Wed Dec 31 16:16:40 2017 application
```

The example above displays all snapshots in an application protection-group in the cluster.

## **application volume commands**

### **application volume remove**

Remove a volume from an application

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *advanced* privilege level.

#### **Description**

This command removes a volume from an application. If the volume is the only member volume of an application component, the application component is deleted. If there are no more application components in the application, the application is deleted.



This command is provided to support downgrade and revert of Data ONTAP to versions prior to the support of applications. It should not be used for any other purpose.

#### **Parameters**

##### **-vserver <vserver name> - Vserver (privilege: advanced)**

The Vserver of the volume to remove from the application.

##### **-application <text> - Application (privilege: advanced)**

The name of the application from which to remove the volume.

##### **-volume <volume name> - Volume (privilege: advanced)**

The volume to remove from the application.

## Examples

```
cluster1::*> application volume remove -vserver vs1 -application app1  
-volume vol1
```

The example above removes volume vol1 in Vserver vs1 from application app1. If this is the only volume in the application, the application is deleted.

## application volume show

Display application volumes

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *advanced* privilege level.

### Description

This command displays the volumes that are part of an application.

### Parameters

{ [-fields <fieldname>,...]}

Specifies fields that you want included in the output. You can use `-fields ?` to display the available fields.

| [-instance ] }

Specifies the display of all available fields for each selected volume.

**[-vserver <vserver name>] - Vserver (privilege: advanced)**

Selects application volumes belonging to Vservers that match the parameter value.

**[-application <text>] - Application (privilege: advanced)**

Selects application volumes that belong to an application that matches the parameter value.

**[-volume <volume name>] - Volume (privilege: advanced)**

Selects application volumes whose name matches the parameter value.

**[-size {<integer>[KB|MB|GB|TB|PB]}] - Volume Size (privilege: advanced)**

Selects application volumes whose size matches the parameter value.

**[-state {online|restricted|offline|force-online|force-offline|mixed}] - Volume State (privilege: advanced)**

Selects application volumes whose state matches the parameter value.

**[-application-component <text>] - Application Component (privilege: advanced)**

Selects application volumes that belong to application component that matches the parameter value.

## Examples

```
cluster1::> application volume show
Vserver    Application  Volume      State
-----  -----  -----  -----
vs1        app1
            vol1      online
            vol2      online
            vol3      online
app2
            vol4      online
            vol5      online
            vol6      online
vs2        app3
            vol7      online
            vol8      online
            vol9      online
app4
            vol10     online
            vol11     online
            vol12     online
12 entries were displayed.
```

The example above displays the volumes of all applications in the cluster.

```
cluster1::> application volume show -vserver vs1 -application app1
Vserver    Application  Volume      State
-----  -----  -----  -----
vs1        app1
            vol1      online
            vol2      online
            vol3      online
3 entries were displayed.
```

The example above displays the volumes of application app1 in Vserver vs1.

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