EMC Unity - File System Operations

This chapter contains the following sections:

EMC Unity - Create File System

Summary

Create a new file system on an EMC Unity array.

Description

This task creates or adds a new file system on an EMC Unity storage array. Minimum file system capacity is 3 GB. Before a file system is created, at least one NAS server must exist on the storage system. Optionally, Snapshot Schedule can be selected with the Pause Snapshot creation option. If Snapshot Schedule is selected and Pause Snapshot creation is not checked, the EMC Unity system creates snapshots on the file system at the frequency configured on the snapshot schedule. Input Format:

- EMC Unity Account Name: podName@AccountName. For example: Vblock@Unity_Hybrid.
- EMC Unity NAS Server: podName@accountName@spName@spid@storagePoolName@storagePoolid@nasServerName@nasServerID. For example: Default Pod@EmcUnity@SP A@spa@Pool0@Pool_7@TestNAS@nas_4.
- Protocol: Configure the protocols the file system supports.
- Name: A valid name. The following 19 special characters are not allowed in the file system name: " % & ' * + . / \ : ; < = > ? ^ @ | ,
- Description: A description of the file system.
- Storage Pool: PodName@accountName@storagePoolName@storagePoolId. For example: Vblock@Unity_Hybrid@Pool1@pool_7.
- Size: Size of the File System. Minimum file system capacity is 3 GB.
- Capacity Units: The unit for the size of the file system: GB, MB, or TB.
- Thin: Check to enable thin provisioning for file system.
- Snapshot Schedule: Select the schedule to associate to the file system. The snapshot schedule contains schedule settings for the file system.
- Snapshot Schedule Paused: Check to indicate that the snapshot schedule is paused.

Inputs

Input	Description	Mappable To Type	Mandatory
EMC Unity Account	Select EMC Unity account to add host	EMCUnityAccount Identity	Y
Protocol	Choose a protocol that the file system supports	EMCUnityFileSystem ProtocolType	Y
NAS Server	Choose a NAS server to provide network connectivity to the share from the host	EMCUnityNasServer Identity	Y
Name	Enter the name of file system. The following 19 special characters are not allowed: ", %, &, ', *, +, ., /, \, :, ;, <, =, >, ?, ^, @, | and ,"	gen_text_input	
Description	Enter a description for the file system	gen_text_input	
Pool	Choose a storage pool in which to create the file system	EMCUnityStoragePool Identity	Y
Size	Enter the size of file system. Minimum size is 3 GB.	gen_text_input	Y

Input	Description	Mappable To Type	Mandatory
Capacity Units	Choose the capacity units (MB, GB, or TB)	EMCUnitySizeUnit	Y
Thin	Check to enable thin provisioning for the file system	Boolean	
Snapshot Schedule	Choose a snapshot schedule for the file system	EMCUnitySnapshot ScheduleIdentity	
Snapshot Schedule Paused	Check to pause the snapshot schedule	Boolean	
Sync Write Enabled	Check to enable synchronous writes on the file system	Boolean	
Opslocks Enabled	Check to enable opportunistic file locking on the file system	Boolean	
Notify On Write Enabled	Check to enable notifications of file writes on the file system	Boolean	
Notify On Access Enabled	Check to enable notifications of file accesses on the file system	Boolean	
Access Policy	Indicates whether notifications on files access is enabled on the file system	EMCUnityFileSystem AccessPolicyType	

Outputs

Output	Description	Type
OUTPUT_EMC_UNITY_FILE_ SYSTEM_IDENTITY	EMC Unity File System Identity.	EMCUnityFileSystem Identity
OUTPUT_EMC_UNITY_STORAGE_ POOL_IDENTITY	EMC Unity Storage Pool Identity	EMCUnityStoragePool Identity
OUTPUT_EMC_UNITY_ACCOUNT_ IDENTITY	EMC Unity Account Identity.	EMCUnityAccountIdentity
OUTPUT_EMC_UNITY_FILE_ SYSTEM_SIZE	EMC Unity File System Size.	gen_text_input

EMC Unity - Delete File System

Summary

Delete a file system on an EMC Unity array.

Description

This task deletes a file system on an EMC Unity storage array. Use the Force option to delete snapshots along with the file system. Delete EMC Unity File System is the rollback task for Create EMC Unity File System. Input Format:

- EMC Unity File System: podName@accountName@spName@id@nasServerName@nasServerID@storagePoolName@storagePoolId@fileSystemName@fileSystemID. For example: Default Pod@EmcUnity@SP A@spa@TestNAS@nas_4@pool_7@Pool0@TestFS@fs_14
- Force: Select to also delete snapshots.

Inputs

Input	Description	Mappable To Type	Mandatory
File System	Choose an EMC Unity file system	EMCUnityFileSystem Identity	Y
Force	Check to force delete if the file system has snapshots associated with it	Boolean	

Outputs

Output	Description	Type
OUTPUT_EMC_UNITY_FILE_SYSTEM_IDENTITY	EMC Unity File System Identity.	EMCUnityFileSystem Identity
OUTPUT_EMC_UNITY_STORAGE_POOL_IDENTITY	EMC Unity Storage Pool Identity	EMCUnityStoragePool Identity

EMC Unity - Modify File System

Summary

Modify an EMC Unity file system on an EMC Unity array.

Description

This task modifies a file system on an EMC Unity storage array. Only description, size, and snapshot schedule inputs can be modified using this task. To enable or disable snapshot creation on a file system, use Start Snapshot creation or Pause Snapshot creation respectively. A snapshot schedule can be added or changed but cannot be removed from the file system. Input Format:

- EMC Unity File System: podName@accountName@spName@id@nasServerName@nasServerID@storagePoolName@storagePoolId@fileSystemName@fileSystemID. For example: Default Pod@EmcUnity@SP A@spa@TestNAS@nas_4@pool_7@Pool0@TestFS@fs_14
- Description: A description of the file system.
- Size: The size of the File System. Minimum file system capacity is 3 GB.
- Capacity Units: The unit for the size of the file system: GB, MB, or TB.
- Snapshot Schedule: A snapshot schedule can be added or changed but cannot be removed from the file system.

Inputs

Input	Description	Mappable To Type	Mandatory
File System	Choose an EMC Unity file system	EMCUnityFileSystem Identity	Y
Description	Enter a description for the file system	gen_text_input	
Size	Enter the size of file system. Minimum size is 3 GB.	gen_text_input	
Capacity Units	Choose the capacity units (MB, GB, or TB)	EMCUnitySizeUnit	Y
Snapshot Schedule	Choose a snapshot schedule settings for the file system	EMCUnitySnapshotSchedule Identity	

Outputs

Output	Description	Type
OUTPUT_EMC_UNITY_FILE_ SYSTEM_IDENTITY	EMC Unity File System Identity.	EMCUnityFileSystem Identity
OUTPUT_EMC_UNITY_STORAGE_ POOL_IDENTITY	EMC Unity Storage Pool Identity	EMCUnityStoragePool Identity
OUTPUT_EMC_UNITY_ACCOUNT_ IDENTITY	EMC Unity Account Identity.	EMCUnityAccountIdentity