



Unified Compute Platform 3.5.1

UCP DOC CLI Reference

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Contents

Preface	v
Intended audience	v
Product version	v
Document organization	v
UCP document set	vi
Getting help.	vi
Comments	vii
1 Introducing the UCP DOC CLI	1
Installation	2
Connecting to Director Operations Center CLI	2
Jobs	2
Access and authentication	2
2 UCP Director Operations data types	3
Common properties	4
DatacenterConfiguration	4
UcpDatacenterDirector	4
FederationUser.	5
Role	5
RoleType	5
UcpInstanceRegistration	6
UcpEvent	6
UcpJob	6
UserPermissionList	6
ResourceState	7
3 UCP Disaster Recovery data types	9
Common properties	10

ReplicatedVolume.	10
ReplicatedVolumePair	10
ReplicationGroup	11
SitePair	12
TestVolumePair	13
4 UCP DOC Commands.....	15
Expand-UCPDatacenterReplicatedVolumePair	16
Example 1	18
Get-UCPDatacenterConfiguration	18
Example 1: Gets configuration information of UCP DOC	19
Get-UCPDatacenterDirector	20
Example 1: Connect to UCP DOC on local machine at port 444	21
Example 2: Connect to UCP DOC on remote machine using default port	21
Get-UCPDatacenterEvent	21
Example 1: Get recent events that targeted users	26
Example 2: Get recent events that have a relationship to the targeted Instance	27
Example 3: Get recent events using relation 'self'	28
Get-UCPDatacenterInstance	29
Example 1: Get all registered instances	30
Example 2: Get specific registered instance.	31
Get-UCPDatacenterJob	31
Example 1: Get Jobs where type is AddUser	35
Example 2: Get Jobs that are directly related to the specified target	36
Get-UCPDatacenterMonitorState	37
Example 1: Get monitoring state for UCP DOC.	38
Example 2: Get monitoring state for UCP DOC based on Resource Id and ResourceType	39
Example 3: Get monitoring state for UCP DOC based on ResourceType	39
Get-UCPDatacenterReplicatedVolumePair	40
Example 1: Get replicated volume pair	41
Get-UCPDatacenterReplicationGroup	42
Example 1: Get all replication groups for a site pair	43
Example 2: Get replication group for a site pair	44
Get-UCPDatacenterRole	44
Example 1: Get roles for UCP DOC	45
Get-UCPDatacenterSitePair	45
Example 1: Get site pair information for site pair	46
Get-UCPDatacenterTestVolumePair	47
Example 1: Get test volume pair	49
Get-UCPDatacenterUser	49
Example 1: Get a list of UCP DOC users and their role names	50

Example 2: Gets information about a specific user	51
Get-UCPDatacenterUserPrivileges	51
Example 1: Get a list of predefined privileges	52
New-UCPDatacenterReplicatedVolumePair	53
Example 1: Adding new replicated volume to a replication group	58
New-UCPDatacenterReplicationGroup	58
Example 1: Create new replication group for site pair	64
New-UCPDatacenterSitePair	65
Example 1: Create new site pair with 'TrueCopy' replication mode.	68
Example 2: Create new site pair with 'HitachiUniversalReplicator' replication mode.	68
New-UcpDatacenterTestVolumePair	68
New-UCPDatacenterUser	71
Example 1: Register an AD user with the 'Viewer' role	73
Example 2: Register an AD user with the 'Administrator' role	73
Register-UCPDatacenterInstance	74
Example 1: Register UCP instance into UCPDatacenter	75
Remove-UCPDatacenterReplicatedVolumePair	76
Example 1: Remove replicated volume pair	78
Remove-UCPDatacenterReplicationGroup	78
Example 1: Remove replication group from site pair	80
Remove-UCPDatacenterSitePair	81
Example 1: Remove site pair from UCP DOC	82
Remove-UCPDatacenterTestVolumePair	82
Remove-UCPDatacenterUser	84
Example 1: Remove a user from UCP DOC	86
Set-UCPDatacenterConfiguration	86
Example 1: Modifies the AMQP username and AMQP password of UCP DOC	87
Set-UCPDatacenterInstance.	88
Example 1: Update the information of the UCP instance.	90
Set-UCPDatacenterReplicationGroup.	90
Example 1: Recreate replication on replication group at site pair.	93
Set-UCPDatacenterUser	93
Example 1: Update the user role	94
Unregister-UCPDatacenterInstance	95
Example 1: Unregister the UCP instance	96
Update-UCPDatacenterSitePairInventory.	96
Example 1: Refreshes UCP Datacenter SitePair inventory	97



Preface

This guide explains how to use the **Hitachi Unified Compute Platform Director Operations Center (UCP DOC) CLI**.

Intended audience

This guide is intended for system administrators who use the CLI to administer UCP DOC.

Product version

This guide applies to UCP version 3.5.1.

Document organization

This guide contains four chapters.

Chapter/Appendix	Description
Chapter 1. Introducing the UCP DOC CLI	Contains an overview of the UCP DOC CLI.
Chapter 2. UCP Director Operations data types	Explains the data types that are used by the UCP DOC commands when using a command or as returned by commands.
Chapter 3. UCP Disaster Recovery data types	Explains the data types that are used by the UCP Disaster Recovery commands when using a command or as returned by commands.
Chapter 4. UCP DOC Commands	Explains the commands that are used to control the UCP Director and UCP DOC CLI.

UCP document set

The following documents contain information about UCP version 3.5.1:

- *UCP Pre-Installation Requirements and Configuration* — Contains information and procedures you need to be aware of for a successful UCP installation.
- *UCP Administration Manual* — Contains technical and usage information for UCP and UCP Director. Describes how to administer UCP Director through UCP Director Console with both VMware vCenter and Microsoft SCVMM.
- *UCP Director API Reference* — Describes how to use the UCP Director API.
- *UCP Director CLI Reference* — Describes how to use the UCP Director CLI.
- *UCP Director Third-Party Copyrights and Licences* — Contains copyright and license information for the third-party software distributed with or embedded in UCP Director.
- *UCP DOC Administration Manual* — Contains technical and usage information for Unified Compute Platform Director Operations Center (UCP DOC). Describes how to administer UCP DOC through UCP DOC Console.
- *UCP DOC API Reference* — Describes how to use the UCP DOC API.
- *UCP DOC CLI Reference* — Describes how to use the UCP DOC CLI.

Getting help

If you need to call the Hitachi Data Systems® support center, please have your site ID and provide as much information about the problem as possible, including:

- The circumstances surrounding the error or failure
- The exact content of any returned messages

The Hitachi Data Systems customer support staff is available 24 hours a day, seven days a week. If you need technical support, please call:

- United States: (800) 446-0744
- Outside the United States: (858) 547-4526

Comments

Please send us your comments on this document:

UCPDocumentationFeedback@hds.com

Include the document title, number, and revision, and refer to specific sections and paragraphs whenever possible.

Thank you! (All comments become the property of Hitachi Data Systems.)

Introducing the UCP DOC CLI

UCP DOC is designed to orchestrate across more than one UCP site, referred to as UCP instances. Disaster Recovery CLI is an add-on that provides replication capabilities between two UCP instances. The UCP DOC CLI provides full access to UCP DOC features. It allows full scripting support for all standard Director Operations Center CLI and limited scripting support for the add-on Disaster Recovery CLI.

Installation

The UCP DOC CLI installer can be downloaded and installed from the help menu in UCP DOC Console. For more information on UCP DOC Console, see the UCP DOC Administration Manual.

Connecting to Director Operations Center CLI

Before any commands may be used with this PowerShell CLI, the Hitachi.UcpDatacenter.CLI snapin must be added to your runspace and a connection to UCP DOC must be established. You may add the snapin as follows:

```
add-pssnapin Hitachi.UcpDatacenter.CLI
```

Once the snapin is added to your runspace you may establish a connection to the UCP DOC as follows:

```
Get-UCPDatacenterDirector ucpdatacenter.ucp.local
```

Jobs

UCP DOC uses the job code from UCP Director service. So, although the commands to get jobs and events may be directed at the UCP DOC service, the return data type inherits its construct from UCP Director. The jobs and events returned by UCP DOC, however, are only the jobs and events related to UCP DOC service.

Access and authentication

There are only two roles for UCP DOC:

- Administrator
- Viewer

UCP Director Operations data types

The data types used by commands are created when using Get and New commands. They can be modified and piped into Set commands. Updated versions of these data types are returned from Set commands. They can also be piped into remove commands to identify the object to be removed.

Common properties

A few of the UCP DOC CLI data structures have the following common properties. These are mentioned here once rather than repeating for each data structure which has these properties. Unless otherwise stated, the below listed attributes are a part of all data structure.

Name	Type	Notes
Id	String	Resource identifier. Use this ID in parameters to specify this resource
InstanceId	String	The Id of the UCP or UCP Datacenter Operations Center instance. Example: "inst.v2ProductionB-123-456-789"
ResourceType	String	Type of resource or object
GlobalResourceId	String	Unique resource identifier across all UCP site instances. This Id specifies the Instance Id, resource type and the Id of the resource and is structured as Instance.Type.Id. Example: inst.v2ProductionB-123-456-789.hostprofile.hostprofile-59

DatacenterConfiguration

The contents of this data type are detailed in the following table.

Name	Type	Notes
AmqpUsername	String	User name for AMQP

UcpDatacenterDirector

The contents of this data type are detailed in the following table.

Name	Type	Notes
ComputerName	String	Name of the Director Operations Center computer.
IsDisasterRecoveryInstalled	Boolean	Indicates whether disaster recovery is installed.

Name	Type	Notes
PortNumber	Int32	Port number for accessing Director Operations Center through the web client.
SerialNumber	String	Serial number of the Director Operations Center installation.
UserName	String	User name for servicing Director Operations Center.
Version	String	Version of Director Operations Center.

FederationUser

The contents of this data type are detailed in the following table.

Name	Type	Notes
Name	String	Name for the user
RoleName	Collection of RoleType	Role for the user

Role

The contents of this data type are detailed in the following table. The only common property used by this data structure is Id.

Name	Type	Notes
RoleName	RoleType	Role for the user. Role Names include: <ul style="list-style-type: none"> Administrator Viewer

RoleType

Contains only the string values of Administrator or Viewer.

The Administrator role has permissions:

- UCPDatacenter.SystemAdministration

UcpInstanceRegistration

- • UCPDatacenter.View

The Viewer role has only UCPDatacenter.View

UcpInstanceRegistration

The contents of this data type are detailed in the following table. This data structure has the common property of Id.

Name	Type	Notes
DisplayName	String	Display name of the UCP Instance.
SerialNumber	String	Serial number of the UCP Instance.
ServiceUrl	String	URL for accessing the UCP Instance.
UcpId	String	GlobalId of UCP.
UcpIdType	String	Resource Type. Always Instance.
UserName	String	Username for the administrator of the UCP Instance.

UcpEvent

See UCPEvent under UCP Director CLI data types.

UcpJob

See UCPJob under UCP Director CLI data types.

UserPermissionList

The contents of this data type are detailed in the following table. This data structure does not contain the common properties.

Name	Type	Notes
Permissions	String	The list of permissionsThe two supported permissions are: <ul style="list-style-type: none">• UCPDatacenter.SystemAdministration• UCPDatacenter.View

ResourceState

The contents of this data type are detailed in the following table. This data structure has the common properties of ResourceType and GlobalResourceId.

Name	Type	Notes
NumErrors	Int32	Total count of error messages from the monitored resource.
NumOks	Int32	Total count of OK messages from the monitored resource.
NumUnknowns	Int32	Total count of Unknown messages from the monitored resource.
NumWarnings	Int32	Total count of Warning messages from the monitored resource.
State	String	The overall state of the monitored resource.
SubResources	Collection of ResourceState	SubResources are child resources of the monitored resource parent.

ResourceState

UCP Disaster Recovery data types

The data types used by commands are created when using Get and New commands. They can be modified and piped into Set commands. Updated versions of these data types are returned from Set commands. They can also be piped into remove commands to identify the object to be removed.

Common properties

A few of the UCP Disaster Recovery CLI data structures have the following common properties. These are mentioned here once rather than repeating for each data structure which has these properties. Unless otherwise stated, the below listed attributes are a part of all data structures.

Name	Type	Notes
Id	String	Resource identifier. Use this ID in parameters to specify this resource
InstanceId	String	The Id of the UCP or Datacenter instance. Example: "inst.v2ProductionB-123-456-789"
ResourceType	String	Type of resource or object
GlobalResourceId	String	Unique resource identifier across all UCP and Datacenter instances. This Id specifies the Instance Id, resource type and the Id of the resource and is structured as Instance.Type.Id. Example: inst.v2ProductionB-123-456-789.hostprofile.hostprofile-59

ReplicatedVolume

The contents of this data type are detailed in the following table. This data structure does not have the common properties.

Name	Type	Notes
VolumeId	String	Id of the storage system.
StorageSystemId	String	Id of the volume.
VolumeRole	String	The role of the volume in the pair. This can be Primary, Secondary or Not Replicated.

ReplicatedVolumePair

The contents of this data type are detailed in the following table.

Name	Type	Notes
ReplicatedVolumePairId	String	ID of the volume pair.
ReplicationGroupId	String	ID of the replication group that this volume pair belongs.

Name	Type	Notes
PairStatus	String	Status of replication for this volume pair. Values: COPY: The status reflected when replication is taking place PAIR: The status reflected when replication is complete SIMPLEX: The status reflected when no replication is taking place UNCONFIGURED: The status reflected when the replication is being configured SUSPENDED: When the replication is suspended FAILOVER: When the sites are in failover mode
ReplicationMode	String	ReplicationModeStringMode of replication: Asynchronous (Hitachi Universal Replication) or Synchronous (True Copy)
CopyPercentComplete	Int32	Percent of copy completed.
LeftVolume	ReplicatedVolume	The first volume in the pair.
RightVolume	ReplicatedVolume	The second volume in the pair.

ReplicationGroup

The contents of this data type are detailed in the following table.

Name	Type	Notes
ReplicationGroupId	String	ID of the replication group.
Name	String	The name of the replication group.
SitePairId	String	ID of the site pair.

Name	Type	Notes
Status	String	Status of the replication group. Values: Consistent: If all the Replicated volume pair statuses are consistent and uniquely determine the direction of replication between 2 sites. Inconsistent: If the direction of replication between the 2 sites cannot be determined.

SitePair

The contents of this data type are detailed in the following table.

Name	Type	Notes
SitePairId	String	ID of the site pair.
LeftSiteConnectionStatus	String	The connection status of the first site. Connected or Unreachable.
LeftSiteId	String	ID of the first site in the site pair.
LeftSitePathGroupStatus	String	The status of the first site path group.
MaximumOutageTolerance	String	The maximum outage tolerance for this site pair. This determines the Journal sizing for asynchronous replication.
Name	String	Name of the site pair.
ReplicationType	String	The type of replication technology used for all replicated volumes between the sites in this pair. Values are: <ul style="list-style-type: none"> • Hitachi Universal Replication • True Copy
RightSiteConnectionStatus	String	The connection status of the second site. Connected or Unreachable.
RightSiteId	String	ID of the second site in the site pair.
RightSitePathGroupStatus	String	The status of the second site path group.

TestVolumePair

This data structure is not implemented at this time..

Name	Type	Notes
SitePairId	String	Id of the site pair.
ReplicationGroupId	String	Id of the replication group.
TestVolumePairId	String	Id of the test volume pair.

TestVolumePair

UCP DOC Commands

The PowerShell commands that comprise the UCP DOC CLI are defined in this chapter. The details found here are also available from the online help built into the CLI. The CLI provides the standard levels of details that are built into the PowerShell help facility (overview, detailed, examples, and full). To get started, after adding the snapin to your runspace you may also list the commands in the CLI as follows:

```
Get-Command -Module Hitachi.UCPDOC.cli
```

Cmdlet names begin with the action that will be taken against the specified object. These include: "Get", "New", "Register", "Remove", "Set", "Unregister", "Update", and "Expand".

Expand-UCPDatacenterReplicatedVolumePair

Expands a replicated volume.

Syntax

```
Expand-UCPDatacenterReplicatedVolumePair [-SitePairId] <String> [-  
ReplicationGroupId] <String> [-ReplicatedVolumePairId] <String> [-  
VolumeSize] <Double> [<CommonParameters>]
```

Description

Expands the protected volumes, recovery volume and test volumes associated with the replicated volume pair. This is a multi-step process that involves removing replication between the protected and recovery volumes, as well as removing the replication between the recovery and test volumes. Each volume is then expanded to the new size and replication is then re-established between the protected and recovery volumes, and between the recovery and test volumes. For Hitachi Universal Replicator, the original journals are reused.

A new volume size must be at least 1288490188 bytes greater than the existing volume size but cannot not exceed 65970693734400 bytes.

Parameters

- -SitePairId <String>

The identifier of the site pair. Use Get-UCPDatacenterSitePair to determine the ID.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -ReplicationGroupId <String>

The identifier of the replication group containing the volume. Use Get-UCPDatacenterReplicationGroup to get the ID.

- Required? true
- Position? 2
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -ReplicatedVolumePairId <String>

The identifier of the replicated volume to be expanded. Use Get-UCPDatacenterReplicatedVolumePair to get the ID.

- Required? true
- Position? 3
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -VolumeSize <Double>

The new size in bytes of the volume. A new volume size must be at least 1288490188 bytes greater than the existing volume size but cannot not exceed 65970693734400 bytes.

- Required? true
- Position? 4
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

Hitachi.UcpDatacenter.CLI.Domain.ReplicatedVolumePair

Notes

Requires UCP DOC Administrator privilege.

Example 1

```
C:\PS>Expand-UCPDatacenterReplicatedVolumePair -SitePairId 1 -  
ReplicationGroupId payrollRG -ReplicatedVolumePairId P-payrollRG-12619-  
14987 -VolumeSize 161061273600
```

```
ReplicatedVolumePairId : P-payrollRG-12619-14987  
ReplicationGroupId      : payrollRG  
PairStatus              : Pair  
ReplicationMode         : TrueCopy  
CopyPercentComplete    : 100  
LeftVolume              : {VolumeId: 12619, StorageSystemId: 53106,  
VolumeRole: Primary}  
RightVolume             : {VolumeId: 14987, StorageSystemId: 53102,  
VolumeRole: Secondary}
```

Related Links

Get-UCPDatacenterReplicatedVolumePair

Get-UCPDatacenterConfiguration

Gets configuration information of UCP DOC.

Syntax

```
Get-UCPDatacenterConfiguration [<CommonParameters>]
```

Description

Gets configuration information of UCP DOC.

Parameters

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

Outputs

```
Hitachi.UcpDatacenter.CLI.Domain.DatacenterConfiguration
```

Notes

Requires UCP DOC Viewer privilege.

Example 1: Gets configuration information of UCP DOC

```
C:\PS>Get-UCPDatacenterConfiguration
```

```
AmqpUsername      : ucp
Id                : 1
GlobalResourceId  : inst.PODF-FED-12345.dccfg.1
ResourceType      : DatacenterConfiguration
InstanceId        : PODF-FED-12345
```

Related Links

[Set-UCPDatacenterConfiguration](#)

Get-UCPDatacenterDirector

Gets a connection to UCP DOC.

Syntax

```
Get-UCPDatacenterDirector [[-ComputerName] <String>] [[-PortNumber] <UInt32>] [<CommonParameters>]
```

Description

Gets a connection to UCP DOC. The connection is required to run other UCP DOC commands.

Parameters

- -ComputerName <String>
 - Required? false
 - Position? 1
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false
- -PortNumber <UInt32>
 - Required? false
 - Position? 2
 - Default value 443
 - Accept pipeline input? false
 - Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

Hitachi.UcpDatacenter.CLI.Domain.UcpDatacenterDirector

Notes

Requires UCP DOC Viewer privilege.

Example 1: Connect to UCP DOC on local machine at port 444

```
C:\PS>Get-UCPDatacenterDirector -PortNumber 444
```

```
ComputerName: ucpdatacenter.ucp.local
PortNumber: 444
SerialNumber: DCD-12345
UserName: UCP\ucpadmin
Version: 3.0.0.0
IsDisasterRecoveryInstalled: True
```

Example 2: Connect to UCP DOC on remote machine using default port

```
C:\PS>Get-UCPDatacenterDirector 10.21.74.249
```

```
ComputerName: 10.21.74.249
PortNumber: 443
SerialNumber: DCD-12345
UserName: MCP\user1
Version: 3.0.0.3689
IsDisasterRecoveryInstalled: True
```

Get-UCPDatacenterEvent

Gets UCP DOC event details.

Syntax

```
Get-UCPDatacenterEvent [[-EventId] <String>] [-EventType <String>] [-FromDateTime <DateTime>] [-JobId <String>] [-Severity <String>] [-TargetId <String>] [-TargetType <String>] [-Relation <String>] [-ToDateTime <DateTime>] [<CommonParameters>]
```

Description

Gets UCP DOC event details. Use optional filter parameters to manage the number of events returned.

Parameters

- -EventId <String>

Optional filter that specifies the Id of the UCP DOC event that is to be returned. When present, other optional filter parameters may not be included.

- Required? false
- Position? 1
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -EventType <String>

Optional filter that specifies the type of UCP DOC events that are to be returned. Invalid if the EventId parameter is specified.

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -FromDateTime <DateTime>

Optional filter that specifies the beginning date and time of the UCP DOC events that are to be returned. Invalid if the EventId parameter is specified. Must be earlier than ToDateTime if this parameter is present.

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -JobId <String>

Optional filter that specifies the Id of the associated UCP DOC job. Invalid if the EventId parameter is specified.

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -Severity <String>

Optional filter that specifies the severity of the UCP DOC events that are to be returned. Invalid if the EventId parameter is specified. Possible values for this parameter are Info, Warning, Error

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -TargetId <String>

Optional filter that specifies the target Id that UCP DOC events that are to be returned. Its use requires TargetType. Invalid if the EventId parameter is specified.

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -TargetType <String>

Optional filter that specifies the target type of the UCP DOC events that are to be returned. Invalid if the EventId parameter is specified.

Possible values for this parameter are Instance, Ucp, User, SitePair, ReplicatedGroup, ReplicatedVolumePair

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -Relation <String>

Optional filter of comma-separated values that must be used with -TargetId and -TargetType. This specifies which events to return based on the relationship with the given Target.

Possible values are Self and Subcomponent.

Specifying "self" alone is equivalent to omitting the relationship altogether. Specifying Subcomponent will return just those events targeted to sub-components of the given Target. Specifying "Self,Subcomponent" will return the union of the former two results.

See the documentation for a full list of all Target Types and their sub-components.

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -ToDateTime <DateTime>

Optional filter that specifies the ending date and time of the UCP DOC events that are to be returned. Invalid if the EventId parameter is specified. Must be later than FromDateTime if it is present.

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

Hitachi.UCP.CLI.Domain.UcpEvent

Notes

Requires UCP DOC Viewer privilege.

Example 1: Get recent events that targeted users

```
C:\PS>Get-UCPDatacenterEvent -TargetType User
```

```
EventId           : 2
CreatedTime       : 9/27/2013 9:53:12 PM +00:00
Description       : Successfully added user 'podb\administrator'.
EventType        : AddUserSuccessfulInfoEvent
JobId            : 2
Severity         : info
TargetId         : inst.PODB-FED-12345.user.3
TargetType       : User
CreatedBy        : podb\svc_ucpdcntr
RecommendedAction :
Id               : 2
GlobalResourceId : inst.PODB-FED-12345.event.2
ResourceType     : Event
InstanceId       : PODB-FED-12345

EventId           : 1
CreatedTime       : 9/27/2013 9:53:03 PM +00:00
Description       : Successfully added user 'podb\ucpadmin'.
EventType        : AddUserSuccessfulInfoEvent
JobId            : 1
Severity         : info
```

```

TargetId          : inst.PODB-FED-12345.user.2
TargetType        : User
CreatedBy         : podb\svc_ucpdcntr
RecommendedAction :
Id                : 1
GlobalResourceId  : inst.PODB-FED-12345.event.1
ResourceType      : Event
InstanceId        : PODB-FED-12345

```

Example 2: Get recent events that have a relationship to the targeted Instance

```

C:\PS>Get-UCPDatacenterEvent -TargetType Instance -TargetId
inst.v2Pod15-123-456-789 -Relation "self, subcomponent" | Select-Object
-First 3

```

```

EventId          : 9
CreatedTime      : 9/24/2013 3:55:09 AM +00:00
Description      : Successfully registered UCP instance with URL:
https://10.21.100.6/api.
EventType        : UCPRegistrationSuccessfulInfoEvent
JobId            : 9
Severity         : info
TargetId         : inst.v2Pod15-123-456-789
TargetType       : Instance
CreatedBy        : UCP\ucpadmin
RecommendedAction :
Id              : 9
GlobalResourceId : inst.pod15-fed-123456.event.9
ResourceType     : Event
InstanceId       : pod15-fed-123456

```

```

EventId          : 8
CreatedTime      : 9/24/2013 3:54:53 AM +00:00
Description      : Successfully unregistered UCP instance with URL:
https://10.21.100.6/ap
EventType        : UCPUnregistrationSuccessfulInfoEvent
JobId            : 8
Severity         : info
TargetId         : inst.v2Pod15-123-456-789
TargetType       : Instance
CreatedBy        : UCP\ucpadmin
RecommendedAction :
Id              : 8
GlobalResourceId : inst.pod15-fed-123456.event.8
ResourceType     : Event
InstanceId       : pod15-fed-123456

```

Get-UCPDatacenterEvent

```
EventId           : 7
CreatedTime       : 9/24/2013 3:51:01 AM +00:00
Description        : Successfully registered UCP instance with URL:
https://10.21.100.6/api.
EventType         : UCPRegistrationSuccessfulInfoEvent
JobId             : 7
Severity          : info
TargetId          : inst.v2Pod15-123-456-789
TargetType        : Instance
CreatedBy         : UCP\ucpadmin
RecommendedAction :
Id               : 7
GlobalResourceId  : inst.pod15-fed-123456.event.7
ResourceType      : Event
InstanceId        : pod15-fed-123456
```

Example 3: Get recent events using relation 'self'

```
C:\PS>Get-UCPDatacenterEvent -TargetType Instance -TargetId
inst.v2Pod15-123-456-789 -Relation self | Select-Object -First 3
```

```
EventId           : 9
CreatedTime       : 9/24/2013 3:55:09 AM +00:00
Description        : Successfully registered UCP instance with URL:
https://10.21.100.6/api.
EventType         : UCPRegistrationSuccessfulInfoEvent
JobId             : 9
Severity          : info
TargetId          : inst.v2Pod15-123-456-789
TargetType        : Instance
CreatedBy         : UCP\ucpadmin
RecommendedAction :
Id               : 9
GlobalResourceId  : inst.pod15-fed-123456.event.9
ResourceType      : Event
InstanceId        : pod15-fed-123456
```

```
EventId           : 8
CreatedTime       : 9/24/2013 3:54:53 AM +00:00
Description        : Successfully unregistered UCP instance with URL:
https://10.21.100.6/api.
EventType         : UCPUnregistrationSuccessfulInfoEvent
JobId             : 8
Severity          : info
TargetId          : inst.v2Pod15-123-456-789
TargetType        : Instance
CreatedBy         : UCP\ucpadmin
RecommendedAction :
```

```

Id                : 8
GlobalResourceId  : inst.pod15-fed-123456.event.8
ResourceType     : Event
InstanceId        : pod15-fed-123456

EventId          : 7
CreatedTime      : 9/24/2013 3:51:01 AM +00:00
Description      : Successfully registered UCP instance with URL:
https://10.21.100.6/api.
EventType        : UCPRegistrationSuccessfulInfoEvent
JobId            : 7
Severity         : info
TargetId         : inst.v2Pod15-123-456-789
TargetType       : Instance
CreatedBy        : UCP\ucpadmin
RecommendedAction :
Id                : 7
GlobalResourceId  : inst.pod15-fed-123456.event.7
ResourceType     : Event
InstanceId        : pod15-fed-123456

```

Related Links

[Get-UCPDatacenterJob](#)

Get-UCPDatacenterInstance

Gets the details of UCP sites.

Syntax

```

Get-UCPDatacenterInstance [[-InstanceId] <String>]
[<CommonParameters>]

```

Description

Returns detailed information about all the UCP sites that are registered with the UCP DOC.

Parameters

- -InstanceId <String>
Id of the UCP site to return.
- Required? false

- Position? 1
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false
- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

Hitachi.UcpDatacenter.CLI.Domain.UcpInstanceRegistration

Notes

Requires UCP DOC Viewer privilege.

Example 1: Get all registered instances

```
C:\PS>Get-UCPDatacenterInstance

DisplayName : PodD
Id          : blue-podd-3690
SerialNumber : blue-podd-3690
ServiceUrl  : https://ucpmanagement.podd.local/api
UcpId       : inst.blue-podd-3690
UcpIdType   : Instance
UserName    : ucpadmin@podd.local

DisplayName : PodF
Id          : blue-podf-3690
SerialNumber : blue-podf-3690
ServiceUrl  : https://ucpmanagement.podf.local/api
UcpId       : inst.blue-podf-3690
UcpIdType   : Instance
UserName    : ucpadmin@podf.local
```


Example 2: Get specific registered instance

```
C:\PS>Get-UCPDatacenterInstance -InstanceId blue-podf-3690
```

```

DisplayName : PodF
Id          : blue-podf-3690
SerialNumber : blue-podf-3690
ServiceUrl  : https://ucpmanagement.podf.local/api
UcpId       : inst.blue-podf-3690
UcpIdType   : Instance
UserName    : ucpadmin@podf.local

```

Related Links

Set-UCPDatacenterInstance

Get-UCPDatacenterJob

Gets UCP DOC job details.

Syntax

```
Get-UCPDatacenterJob [-FromDateTime <DateTime>] [[-JobId] <String>]
[-JobStatus <String>] [-JobType <String>] [-TargetId <String>] [-
TargetType <String>] [-Relation <String>] [-ToDateTime <DateTime>]
[<CommonParameters>]
```

Description

Gets UCP DOC job details. Use optional filter parameters to manage the number of jobs returned.

Parameters

- -FromDateTime <DateTime>

Optional filter that specifies the beginning date and time of the UCP DOC jobs that are to be returned. Invalid if the Id parameter is specified. Must be earlier than ToDateTime if it is present.

– Required? false

- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false
- -JobId <String>

Optionally specifies the ID of the UCP DOC job that is to be returned. When present, optional filter parameters are invalid.
- Required? false
- Position? 1
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false
- -JobStatus <String>

Optional Filter that specifies the status of the UCP DOC job.

Possible Values are Running, Error, Success.
- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false
- -JobType <String>

Optional filter that specifies the type of UCP DOC jobs that are to be returned. Invalid if the Id parameter is specified.
- Required? false

- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -TargetId <String>

Optional filter that specifies the target ID that UCP DOC jobs must have to be returned. Its use requires TargetType. Invalid if the Id parameter is specified.

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -TargetType <String>

Optional filter that specifies the resource type of the target that UCP DOC Jobs must have to be returned. Invalid if the Id parameter is specified.

Possible values for this parameter are Instance, Ucp, User, SitePair, ReplicatedGroup, ReplicatedVolumePair

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -Relation <String>

Optional filter that specifies the jobs that user wants to retrieve. Users can retrieve jobs for self or jobs targeted to self and all sub components. For example - jobs targeted to Ethernet switch, Backups and all Ethernet switch ports. Invalid if the Id parameter is specified.

Possible values for this parameter are "self" and "subcomponent".

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -ToDateTime <DateTime>

Optional filter that specifies the ending date and time of the UCP DOC jobs that are to be returned. Invalid if the Id parameter is specified. Must be later than FromDateTime if it is present.

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

Hitachi.UCP.CLI.Domain.UcpJob

Notes

Requires UCP DOC Viewer privilege.

Example 1: Get Jobs where type is AddUser

```
C:\PS>Get-UCPDatacenterJob -JobType AddUser
```

```

JobId                : 2
CreatedBy            : podb\svc_ucpdcntr
EndTime              : 9/27/2013 9:53:12 PM +00:00
Name                 : Add User to UCP Director Operations Center
Progress             : 100
StartTime            : 9/27/2013 9:53:12 PM +00:00
Status               : Success
TargetId             : inst.PODB-FED-12345
TargetType           : Instance
Type                 : AddUser
Events               : {2}
Id                   : 2
GlobalResourceId     : inst.PODB-FED-12345.job.2
ResourceType         : Job
InstanceId           : PODB-FED-12345

```

```

JobId                : 1
CreatedBy            : podb\svc_ucpdcntr
EndTime              : 9/27/2013 9:53:03 PM +00:00
Name                 : Add User to UCP Director Operations Center
Progress             : 100
StartTime            : 9/27/2013 9:53:02 PM +00:00
Status               : Success
TargetId             : inst.PODB-FED-12345
TargetType           : Instance
Type                 : AddUser
Events               : {1}
Id                   : 1
GlobalResourceId     : inst.PODB-FED-12345.job.1
ResourceType         : Job
InstanceId           : PODB-FED-12345

```

Example 2: Get Jobs that are directly related to the specified target

```
C:\PS>Get-UCPDatacenterJob -TargetType Instance -TargetId inst.PODB-FED-12345 -Relation self
```

```
JobId           : 4
CreatedBy       : podb\administrator
EndTime        : 9/27/2013 10:26:24 PM +00:00
Name           : Register UCP Instance with UCP Director Operations
Center         :
Progress       : 100
StartTime      : 9/27/2013 10:25:48 PM +00:00
Status         : Success
TargetId       : inst.PODB-FED-12345
TargetType     : Instance
Type           : FedUCPInstanceRegistrationJob
Events         : {4}
Id             : 4
GlobalResourceId : inst.PODB-FED-12345.job.4
ResourceType   : Job
InstanceId     : PODB-FED-12345
```

```
JobId           : 3
CreatedBy       : podb\administrator
EndTime        : 9/27/2013 10:24:53 PM +00:00
Name           : Register UCP Instance with UCP Director Operations
Center         :
Progress       : 0
StartTime      : 9/27/2013 10:24:52 PM +00:00
Status         : Error
TargetId       : inst.PODB-FED-12345
TargetType     : Instance
Type           : FedUCPInstanceRegistrationJob
Events         : {3}
Id             : 3
GlobalResourceId : inst.PODB-FED-12345.job.3
ResourceType   : Job
InstanceId     : PODB-FED-12345
```

```
JobId           : 2
CreatedBy       : podb\svc_ucpdcntr
EndTime        : 9/27/2013 9:53:12 PM +00:00
Name           : Add User to UCP Director Operations Center
Center         :
Progress       : 100
StartTime      : 9/27/2013 9:53:12 PM +00:00
Status         : Success
TargetId       : inst.PODB-FED-12345
```

```

TargetType      : Instance
Type            : AddUser
Events          : {2}
Id              : 2
GlobalResourceId : inst.PODB-FED-12345.job.2
ResourceType    : Job
InstanceId      : PODB-FED-12345

```

Get-UCPDatacenterMonitorState

Returns the monitor states and details of every UCP site registered in UCP DOC.

Syntax

```
Get-UCPDatacenterMonitorState [-ResourceType <String>]
[<CommonParameters>]
```

```
Get-UCPDatacenterMonitorState -ResourceId <String> [-ResourceType
<String>] [<CommonParameters>]
```

```
Get-UCPDatacenterMonitorState [-ResourceType <String>]
[<CommonParameters>]
```

Description

Returns the monitor states and details of every UCP site registered in UCP DOC.

Parameters

- -ResourceType <String>
 - Required? false
 - Position? named
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false

- -ResourceId <String>
 - Required? true
 - Position? named
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

Hitachi.UcpDatacenter.CLI.Domain.ResourceState

Notes

Requires UCP DOC Viewer privilege.

Example 1: Get monitoring state for UCP DOC

```
C:\PS>Get-UCPDatacenterMonitorState
```

```
GlobalResourceId : inst.v2ProductionB-123-456-789
ResourceType     : Instance
State            : Ok
NumErrors        : 0
NumWarnings      : 0
NumUnknowns     : 88
NumOks          : 141
```



```
SubResources      : {inst.v2ProductionB-123-456-789.eth.1,
inst.v2ProductionB-123-456-789.fc.1,
                   inst.v2ProductionB-123-456-789.cmp.1,
inst.v2ProductionB-123-456-789.stor.1}
```

Example 2: Get monitoring state for UCP DOC based on Resource Id and ResourceType

```
C:\PS>Get-UCPDatacenterMonitorState -ResourceId
```

```
v2ProductionB-123-456-789 -ResourceType Instance
```

```
GlobalResourceId  : inst.v2ProductionB-123-456-789
ResourceType      : Instance
State             : Warning
NumErrors         : 0
NumWarnings       : 126
NumUnknowns       : 0
NumOks           : 244
SubResources      : {inst.v2ProductionB-123-456-789.eth.1,
inst.v2ProductionB-123-456-789.fc.1,
                   inst.v2ProductionB-123-456-789.cmp.1,
inst.v2ProductionB-123-456-789.stor.1}
```

Example 3: Get monitoring state for UCP DOC based on ResourceType

```
C:\PS>Get-UCPDatacenterMonitorState -ResourceType Instance
```

```
GlobalResourceId  : inst.v2ProductionB-123-456-789
ResourceType      : Instance
State             : Warning
NumErrors         : 0
NumWarnings       : 126
NumUnknowns       : 0
NumOks           : 244
SubResources      : {inst.v2ProductionB-123-456-789.eth.1,
inst.v2ProductionB-123-456-789.fc.1,
                   inst.v2ProductionB-123-456-789.cmp.1,
inst.v2ProductionB-123-456-789.stor.1}
```

Get-UCPDatacenterReplicatedVolumePair

Returns details about replicated volume pairs.

Syntax

```
Get-UCPDatacenterReplicatedVolumePair [-SitePairId] <String> [-  
ReplicationGroupId] <String> [[-ReplicatedVolumePairId] <String>]  
[<CommonParameters>]
```

Description

Returns details about the replicated volumes in a given replication group. If the ID is specified, it returns the details of a specific replicated volume pair.

Parameters

- -SitePairId <String>

The identifier of the target site pair. Use Get-UCPDatacenterSitePair to determine the ID.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -ReplicationGroupId <String>

The identifier of the replication group containing the replicated volume pair. Use Get-UCPDatacenterReplicationGroup to get the ID.

- Required? true
- Position? 2
- Default value
- Accept pipeline input? true (ByPropertyName)

- Accept wildcard characters? false
- -ReplicatedVolumePairId <String>

Supply the optional replicated volume pair ID to get details about a specific replicated volume pair.

- Required? false
- Position? 3
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false
- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

Hitachi.UcpDatacenter.CLI.Domain.ReplicatedVolumePair

Notes

Requires UCP DOC Viewer privilege.

Example 1: Get replicated volume pair

```
C:\PS>Get-UcpDatacenterReplicatedVolumePair -SitePairId 2 -
ReplicationGroupId PayrollRG

ReplicatedVolumePairId : P-PayrollRG-14977-12554
ReplicationGroupId      : PayrollRG
PairStatus              : Pair
ReplicationMode         : HitachiUniversalReplicator
CopyPercentComplete    : 0
```

Get-UCPDatacenterReplicationGroup

```
LeftVolume           : {VolumeId: 14977, StorageSystemId: 53106,  
VolumeRole: Primary}  
RightVolume          : {VolumeId: 12554, StorageSystemId: 53102,  
VolumeRole: Secondary}
```

Related Links

Get-UCPDatacenterReplicationGroup

Remove-UCPDatacenterReplicatedVolumePair

New-UCPDatacenterReplicatedVolumePair

Get-UCPDatacenterReplicationGroup

Returns details about replication groups.

Syntax

```
Get-UCPDatacenterReplicationGroup [-SitePairId] <String> [[-  
ReplicationGroupId] <String>] [<CommonParameters>]
```

Description

Returns the details about the replication groups on the site pair. If the ID is specified, it returns the details of a specific replication group.

Parameters

- -SitePairId <String>

The identifier of the target site pair. Use Get-UCPDatacenterSitePair to determine the ID.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -ReplicationGroupId <String>

The optional identifier of the target replication group. Used to get details of a specific replication group when more than one replication group exist.

- Required? false
- Position? 2
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

Hitachi.UcpDatacenter.CLI.Domain.ReplicationGroup

Notes

Requires UCP DOC Viewer privilege.

Example 1: Get all replication groups for a site pair

```
C:\PS>Get-UCPDatacenterReplicationGroup -SitePairId 1
```

ReplicationGroupId	Name	SitePairId
Status		
-----	----	-----

payrollRG	payrollRG	1
Consistent		

Get-UCPDatacenterRole

InternalWebsite1 Consistent	InternalWebsite1	1
BackupFiles Consistent	BackupFiles	1
RnDrg1 Consistent	RnDrg1	1
RnDrg2 Consistent	RnDrg2	1

Example 2: Get replication group for a site pair

```
C:\PS>Get-UCPDatacenterReplicationGroup -SitePairId 1 -  
ReplicationGroupId payrollRG
```

ReplicationGroupId Status	Name	SitePairId
----- -----	----	-----
payrollRG Consistent	payrollRG	1

Related Links

[New-UCPDatacenterReplicationGroup](#)

[Get-UCPDatacenterSitePair](#)

Get-UCPDatacenterRole

Gets UCP DOC roles.

Syntax

```
Get-UCPDatacenterRole [<CommonParameters>]
```

Description

Gets a list of roles that UCP DOC supports.

Parameters

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

Hitachi.UcpDatacenter.CLI.Domain.Role

Notes

Requires UCP DOC Viewer privilege to perform.

Example 1: Get roles for UCP DOC

```
C:\PS>Get-UCPDatacenterRole
```

```
Id RoleName
--
1 Administrator
2 Viewer
```

Related Links

Get-UCPDatacenterUserPrivileges

Get-UCPDatacenterSitePair

Returns details about site pairs.

Syntax

```
Get-UCPDatacenterSitePair [[-SitePairId] <String>]
[<CommonParameters>]
```

Description

Returns information about all the site pairs. If ID is specified, it returns the information about the specific site pair.

Parameters

- -SitePairId <String>

The optional identifier of the target site pair. Used to get details of a specific site pair.

- Required? false
- Position? 1
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

Hitachi.UcpDatacenter.CLI.Domain.SitePair

Notes

Requires UCP DOC Viewer privilege.

Example 1: Get site pair information for site pair

```
C:\PS>Get-UCPDatacenterSitePair -SitePairId 1
```



```

SitePairId           : 1
LeftSiteConnectionStatus : Connected
LeftSiteId           : Seattle1
LeftSitePathGroupStatus : Normal
MaximumOutageTolerance : 30
Name                  : Seal-Bos1
ReplicationType       : HitachiUniversalReplicator
RightSiteConnectionStatus : Connected
RightSiteId           : Boston1
RightSitePathGroupStatus : Normal

```

Related Links

[New-UCPDatacenterSitePair](#)

[Remove-UCPDatacenterSitePair](#)

Get-UCPDatacenterTestVolumePair

Returns details about test volumes associated to replicated volume pairs.

Syntax

```

Get-UCPDatacenterTestVolumePair [-SitePairId] <String> [-
ReplicationGroupId] <String> [[-TestVolumePairId] <String>]
[<CommonParameters>]

```

Description

Returns the details about the test volumes in a given replication group. If the ID is specified, it returns the details of a specific test volume pair.

Parameters

- -SitePairId <String>

The identifier of the target site pair. Use `Get-UCPDatacenterSitePair` to determine the ID.

- Required? true
- Position? 1

- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false
- -ReplicationGroupId <String>

The identifier of the replication group containing the test volume. use Get-UCPDatacenterReplicationGroup to get the ID.
- Required? true
- Position? 2
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false
- -TestVolumePairId <String>

Supply the optional test volume pair ID to get details about a specific test volume pair.
- Required? false
- Position? 3
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false
- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

Hitachi.UcpDatacenter.CLI.Domain.TestVolumePair

Notes

Requires UCP DOC Viewer privilege.

Example 1: Get test volume pair

```
C:\PS>Get-UCPDatacenterTestVolumePair -SitePairId 11 -ReplicationGroupId
ACKTest
```

To find out the type of test volume, use the volume ID in the UCP Director command Get-UCPVolume. Issue the cmdlet to the secondary UCP site.

```
ReplicatedVolumePairId : T-ACKTest-353-356
ReplicationGroupId      : ACKTest
PairStatus              : Pair
ReplicationMode         : Local
CopyPercentComplete    : 100
LeftVolume              : {VolumeId: 353, StorageSystemId: 210016,
VolumeRole: Primary}
RightVolume             : {VolumeId: 356, StorageSystemId: 210016,
VolumeRole: Secondary}
RightVolume             : {VolumeId: 356, StorageSystemId: 210016,
VolumeRole: Secondary}
```

Related Links

New-UCPDatacenterSitePair

Remove-UCPDatacenterSitePair

Get-UCPDatacenterUser

Gets users of UCP DOC.

Syntax

```
Get-UCPDatacenterUser [[-Id] <String>] [<CommonParameters>]
```

Description

Returns a list of UCP DOC users with role name and ID.

Parameters

- -Id <String>
 - Required? false
 - Position? 1
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

Hitachi.UcpDatacenter.CLI.Domain.FederationUser

Notes

Requires UCP DOC Viewer privilege.

Example 1: Get a list of UCP DOC users and their role names

```
C:\PS>Get-UCPDatacenterUser
```

```

Name           : podb\svc_ucpdctr
RoleName       : {Administrator}
Id             : 1
GlobalResourceId : inst.PODF-FED-12345.user.1
ResourceType   : User
InstanceId     : PODF-FED-12345

Name           : podb\ucpadmin
RoleName       : {Administrator}
Id             : 2
GlobalResourceId : inst.PODF-FED-12345.user.2
ResourceType   : User
InstanceId     : PODF-FED-12345

Name           : podb\administrator
RoleName       : {Administrator}
Id             : 3
GlobalResourceId : inst.PODF-FED-12345.user.3
ResourceType   : User
InstanceId     : PODF-FED-12345

```

Example 2: Gets information about a specific user

```
C:\PS>Get-UCPDatacenterUser -Id 1
```

```

Name           : podb\svc_ucpdctr
RoleName       : {Administrator}
Id             : 1
GlobalResourceId : inst.PODF-FED-12345.user.1
ResourceType   : User
InstanceId     : PODF-FED-12345

```

Related Links

[Set-UCPDatacenterUser](#)

[Remove-UCPDatacenterUser](#)

Get-UCPDatacenterUserPrivileges

Gets a list of privileges.

Syntax

```
Get-UCPDatacenterUserPrivileges [<CommonParameters>]
```

Description

Returns a set of privileges that can be assigned to UCP DOC users.

Parameters

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

Hitachi.UCP.CLI.Domain.UserPermissionList

Notes

Requires UCP DOC Viewer privilege.

Example 1: Get a list of predefined privileges

```
C:\PS>Get-UCPDatacenterUserPrivileges

Permissions
-----
{UCPDatacenter.SystemAdministration, UCPDatacenter.View}
```

Related Links

[Get-UCPDatacenterRole](#)

[Get-UCPDatacenterUser](#)

[Remove-UCPDatacenterUser](#)

[Set-UCPDatacenterUser](#)

New-UCPDatacenterReplicatedVolumePair

Adds a new replicated volume to a replication group.

Syntax

```
New-UCPDatacenterReplicatedVolumePair [-SitePairId] <String> [-
ReplicationGroupId] <String> [-PrimarySiteId] <String> [-
PrimarySiteStorageSystemId] <String> [-SecondarySiteAttachTargetType]
<String> [-SecondarySiteAttachTargetId] <String> [-
SecondarySiteStorageSystemId] <String> [-VolumesToReplicate]
<String[]> [[-SecondaryPoolId] <String>] [<CommonParameters>]
```

```
New-UCPDatacenterReplicatedVolumePair [-SitePairId] <String> [-
ReplicationGroupId] <String> [-PrimarySiteId] <String> [-
PrimarySiteStorageSystemId] <String> [-SecondarySiteAttachTargetType]
<String> [-SecondarySiteAttachTargetId] <String> [-
SecondarySiteStorageSystemId] <String> [-VolumesToReplicate]
<String[]> [[-TestPoolId] <String>] [<CommonParameters>]
```

Description

When a new replicated (primary) volume is added, UCP will:

- Create a replication (secondary) volume at the secondary site
- Attach the secondary volume to the specified host or cluster at the secondary site
- Establish data replication between the two volumes

If the replication group uses test volumes, UCP will:

- Create a test volume of the same type already used by the replication group
- Attach the test volume to the same host or cluster as the secondary volume
- Establish replication between the secondary volume and test volume

For Hitachi Universal Replicator configurations, if additional journal space is required to support the new overall data change rate, additional journal volumes will be added to the journal.

Parameters

- -SitePairId <String>

The identifier of the target site pair. Use Get-UCPDatacenterSitePair to determine the ID.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -ReplicationGroupId <String>

The identifier of the replication group of which to add the new replicated volume pair. Use Get-UCPDatacenterReplicationGroup to get the ID.

- Required? true
- Position? 2
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -PrimarySiteId <String>

The identifier of the site with the volume to protect. Use Get-UCPDatacenterInstance to get the site ID.

- Required? true
- Position? 3
- Default value
- Accept pipeline input? false

- Accept wildcard characters? false
- -PrimarySiteStorageSystemId <String>
Specifies the ID of the storage system on the site to be protected.
 - Required? true
 - Position? 4
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false
- -SecondarySiteAttachTargetType <String>
Specifies a "Server" or "Cluster" for attaching the secondary volume to. Requires also SecondarySiteAttachTargetId.
 - Required? true
 - Position? 5
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false
- -SecondarySiteAttachTargetId <String>
The ID of a server or cluster that is already used by the replication group for attaching secondary and test volumes. Use Get-UCPServer or Get-UCPCluster on UCP Director at the recovery side of the replication group.
 - Required? true
 - Position? 6
 - Default value
 - Accept pipeline input? false

- Accept wildcard characters? false
- -SecondarySiteStorageSystemId <String>

Specifies the ID of the storage system on the site to host the recovery volumes. Use Get-UCPStorageSystem on UCP Director at the recovery site.

 - Required? true
 - Position? 7
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false
- -VolumesToReplicate <String[]>

List of one or more volume identifiers to be replicated. Use Get-UCPVolume on the UCP Director on the protected side to get the volume ID.

 - Required? true
 - Position? 8
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false
- -SecondaryPoolId <String>

Optionally specifies the storage pool in which to create the secondary volume at the recovery side of the replication group. If not specified, UCP will automatically select a pool.

 - Required? false
 - Position? 9
 - Default value

- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false
- -TestPoolId <String>

Optionally specifies the ID of a storage pool in which to create a test volume for each replicated volume. Must specify a storage pool type that matches test volumes currently used by the replication group.

- Required? false
- Position? 10
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false
- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

Hitachi.UcpDatacenter.CLI.Domain.SitePair,
Hitachi.UcpDatacenter.CLI.Domain.ReplicationGroup

Outputs

None

Notes

Requires UCP DOC Administrator privilege.

Example 1: Adding new replicated volume to a replication group

```
C:\PS>New-UCPDatacenterReplicatedVolumePair -SitePairId 1 -
ReplicationGroupId payrollRG -PrimarySiteId
Seattle-1234 -
```

New-UCPDatacenterReplicationGroup

```
PrimarySiteStorageSystemId 53000 -SecondarySiteStorageSystemId 53001  
-SecondarySiteAttachTargetType server  
-SecondarySiteAttachTargetId d07e233f-b495-11e1-a6fc-8096535cba3e -  
VolumesToReplicate 11011
```

```
ReplicatedVolumePairId : P-payrollRG-11011-64166  
ReplicationGroupId      : payrollRG  
PairStatus              : Pair  
ReplicationMode         : TrueCopy  
CopyPercentComplete    : 0  
LeftVolume              : {VolumeId: 11011, StorageSystemId: 53000,  
VolumeRole: Primary}  
RightVolume             : {VolumeId: 64166, StorageSystemId: 53001,  
VolumeRole: Secondary}
```

Related Links

[Get-UCPDatacenterReplicationGroup](#)

[Get-UCPDatacenterSitePair](#)

New-UCPDatacenterReplicationGroup

Creates a new replication group and sets up replication for the specified volumes.

Syntax

```
New-UCPDatacenterReplicationGroup [-Name] <String> [-PrimarySiteId]  
<String> [-PrimarySiteStorageSystemId] <String> [-  
SecondarySiteAttachTargetType] <String> [-SecondarySiteAttachTargetId]  
<String> [-SecondarySiteStorageSystemId] <String> [-SitePairId]  
<String> [-VolumesToReplicate] <String[]> [-SecondaryPoolId] <String>  
[<CommonParameters>]
```

```
New-UCPDatacenterReplicationGroup [-Name] <String> [-PrimarySiteId]  
<String> [-PrimarySiteStorageSystemId] <String> [-  
SecondarySiteAttachTargetType] <String> [-SecondarySiteAttachTargetId]  
<String> [-SecondarySiteStorageSystemId] <String> [-SitePairId]  
<String> [-VolumesToReplicate] <String[]> [-CreateTestVolume]  
[<Boolean>] [-TestVolumeType] <TestVolumeTypeResource> [-TestPoolId]  
<String> [<CommonParameters>]
```

Description

A replication group contains volumes to protect along with their replicated copies at the secondary site. The group optionally has test volumes of either type Shadow Image or Hitachi Thin Image. Protected volumes later added to the group will use the same type of test volumes as existing replicated volume pairs, if any.

At the replication group level, one UCP Director site is considered primary (or protected), while the other is secondary (or replicated).

When creating a new replication group, specify the host or cluster at the secondary site to which UCP should attach replicated (and optional test) volumes.

Parameters

- -Name <String>

The name to give the new replication group. No special characters are accepted.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -PrimarySiteId <String>

The identifier of the site with the volume to protect. Use Get-UCPDatacenterInstance to get the site ID.

- Required? true
- Position? 2
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -PrimarySiteStorageSystemId <String>
Specifies the ID of the storage system on the site to be protected.
 - Required? true
 - Position? 3
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false

- -SecondarySiteAttachTargetType <String>
Specific "Server" or "Cluster" to define the target type.
 - Required? true
 - Position? 4
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false

- -SecondarySiteAttachTargetId <String>
The identifier of the server or cluster. Use Get-UCPServer on the UCP Director to host the recovery volume to get a server ID. Use Get-UCPCluster on UCP Director to host the recovery volume to get the cluster ID.
 - Required? true
 - Position? 5
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false

- -SecondarySiteStorageSystemId <String>

Specifies the ID of the storage system on the site to host the recovery volumes.

- Required? true
- Position? 6
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -SitePairId <String>

The identifier of the target site pair. Use Get-UCPDatacenterSitePair to determine the ID.

- Required? true
- Position? 7
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -VolumesToReplicate <String[]>

List of one or more volume identifiers to be replicated. Use Get-UCPVolume on the UCP Director on the protected side to get the volume ID.

- Required? true
- Position? 8
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -SecondaryPoolId <String>

Optionally specifies the storage pool in which to create the secondary volume at the recovery side of the replication group. If not specified, UCP will automatically select a pool.

- Required? false
- Position? 9
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -CreateTestVolume [<Boolean>]

Optional flag. When specified, UCP will make full sized shadow image test volumes unless the -TestVolumeType specifies otherwise.

- Required? true
- Position? 10
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -TestVolumeType <TestVolumeTypeResource>

Optionally specifies the TestVolumeType. Acceptable string values are:

- "SI" - Shadow Image. Creates full sized test volumes in an HDP or HDT pool.

- "HTI" - Hitachi Thin Image. Creates virtual test volumes in an HTI pool.

- "None" - Specifies that the replication group will not use test volumes. When no value is supplied, UCP automatically creates test volumes that are Shadow Image.

- Required? true

- Position? 11
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false
- -TestPoolId <String>

Optionally specifies the storage pool ID in which to create test volumes for the new replication group.

Must use a pool type that corresponds with the value supplied in the TestVolumeType parameter.

- Required? true
- Position? 12
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false
- -TestPoolId <String>

Optionally specifies the ID of a storage pool in which to create a test volume for each replicated volume.

Must specify a storage pool type that matches test volumes currently used by the replication group.

- Required? false
- Position? 10
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String, Hitachi.UcpDatacenter.CLI.Domain.SitePair,

Outputs

None

Notes

Requires UCP DOC Administrator privilege.

Example 1: Create new replication group for site pair

```
C:\PS>New-UCPDatacenterReplicationGroup -Name PayrollRG -PrimarySiteId
chicago-site -PrimarySiteStorageSystemId

    53106 -SecondarySiteAttachTargetType server -
SecondarySiteAttachTargetId 03061b51-b391-11e1-8062-b3cf1df7d7fc

    -SecondarySiteStorageSystemId 53102 -SitePairId 2 -
VolumesToReplicate PayrollVoll
```

This command created the replication group called TestRG where the protected site is chicago-site. The target for

the recovery volume is a server with storage array ID of 53102 that will host the recovery volumes.

The test volume type will automatically be Shadow Image since the parameter TestVolumeType was not used to specify

any other test volume type.

ReplicationGroupId	Name	SitePairId	Status
-----	----	-----	-----
PayrollRG	PayrollRG	2	Consistent

Related Links

Get-UCPDatacenterSitePair

New-UCPDatacenterSitePair

Creates a new site pair.

Syntax

```
New-UCPDatacenterSitePair -LeftSiteId <String> -
MaxOutageToleranceMinutes <String> -Name <String> -ReplicationMode
<ReplicationModeType> -RightSiteId <String> [<CommonParameters>]
```

Description

Creates a new site pair between two sites so that replication can be setup between the two sites.

Parameters

- -LeftSiteId <String>

The identifier of one of the two sites for the site pair. Use Get-UCPDatacenterInstance to get the site ID.

- Required? true
- Position? named
- Default value
- Accept pipeline input? false

- Accept wildcard characters? false
- -MaxOutageToleranceMinutes <String>
The number of minutes greater than zero.
 - Required? true
 - Position? named
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false
- -Name <String>
A name of which to identify the site pair.
 - Required? true
 - Position? named
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false
- -ReplicationMode <ReplicationModeType>
This value is either TrueCopy or HitachiUniversalReplicator.
 - Required? true
 - Position? named
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false

- -RightSiteId <String>

The identifier of one of the two sites for the site pair. Use Get-UCPDatacenterInstance to get the site ID.

- Required? true
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

Hitachi.UcpDatacenter.CLI.Domain.SitePair

Notes

Requires UCP DOC Administrator privilege.

Example 1: Create new site pair with 'TrueCopy' replication mode

```
C:\PS>New-UCPDatacenterSitePair -LeftSiteId Boston1 -RightSiteId Seattle1
-MaxOutageToleranceMinutes 30 -ReplicationMode TrueCopy -Name Sea-Bos
```

```
SitePairId           : 2
LeftSiteConnectionStatus : Connected
LeftSiteId           : Boston1
LeftSitePathGroupStatus : Normal
MaximumOutageTolerance : 0
Name                  : Sea-Bos
ReplicationType       : TrueCopy
```

New-UcpDatacenterTestVolumePair

```
RightSiteConnectionStatus : Connected
RightSiteId                : Seattle1
RightSitePathGroupStatus  : Normal
```

Example 2: Create new site pair with 'HitachiUniversalReplicator' replication mode

```
C:\PS>New-UCPDatacenterSitePair -LeftSiteId Seattle-1234 -RightSiteId
Boston-5678 -MaxOutageToleranceMinutes 30 -ReplicationMode
HitachiUniversalReplicator -Name Sea-Bos
```

```
SitePairId                : 3
LeftSiteConnectionStatus  : Connected
LeftSiteId                : Seattle-1234
LeftSitePathGroupStatus  : Normal
MaximumOutageTolerance   : 30
Name                      : Sea-Bos
ReplicationType           : HitachiUniversalReplicator
RightSiteConnectionStatus : Connected
RightSiteId               : Boston-5678
RightSitePathGroupStatus : Normal
```

Related Links

[Get-UCPDatacenterSitePair](#)

New-UcpDatacenterTestVolumePair

Creates new test volume(s) for secondary volumes in a replication group.

Syntax

```
New-UcpDatacenterTestVolumePair [-SitePairId] <String> [-
ReplicationGroupId] <String> [-TestStoragePoolId] <String>]
[<CommonParameters>]
```

Description

Appropriate for circumstances where:

- The test volumes associated with some of the secondary (replicated) volumes may have been deleted.
- The replication group may not have been built with test volumes originally.

In both cases, UCP builds test volumes for each replicated volume that lacks one.

If test volumes do exist for any protected volume in the group, UCP will generate new test volumes of the same type; either full sized Shadow Image volumes in an HDP or HDT pool, or Hitachi Thin Image volumes in an HTI pool.

Parameters

- -SitePairId <String>

The ID of the site pair containing the replication group for which test volumes should be generated.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -ReplicationGroupId <String>

The ID of the replication group for which test volumes should be generated.

- Required? true
- Position? 2
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -TestStoragePoolId <String>

Optionally specifies the ID of a storage pool in which to create test volumes. Job will fail if you specify the ID of a pool that doesn't match the type of existing test volumes for the target replication group.

New-UcpDatacenterTestVolumePair

- Required? true
- Position? 3
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false
- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (<http://go.microsoft.com/fwlink/?LinkID=113216>).

Inputs

Hitachi.UcpDatacenter.CLI.Domain.ReplicationGroup,
Hitachi.UcpDatacenter.CLI.Domain.SitePair

Outputs

None

Notes

Requires UCP DOC Administrator privilege.

Example: Make new test volumes for a replication group

```
New-UcpDatacenterTestVolumePair -SitePairId 11 -ReplicationGroupId  
TestTvoll
```

```
ReplicatedVolumePairId : T-TestTvoll-144-140  
ReplicationGroupId      : TestTvoll  
PairStatus              : Pair  
ReplicationMode         : Local  
CopyPercentComplete    : 100  
LeftVolume              : {VolumeId: 144, StorageSystemId: 310025,  
VolumeRole: Primary}
```



```

RightVolume      : {VolumeId: 140, StorageSystemId: 310025,
VolumeRole: Secondary}

ReplicatedVolumePairId : T-TestTvoll1-139-145
ReplicationGroupId    : TestTvoll
PairStatus           : Pair
ReplicationMode       : Local
CopyPercentComplete  : 100
LeftVolume          : {VolumeId: 139, StorageSystemId: 310025,
VolumeRole: Primary}
RightVolume         : {VolumeId: 145, StorageSystemId: 310025,
VolumeRole: Secondary}

```

In this example, a TestStoragePoolId is not specified. UCP, by default, creates SI (full sized) test volumes in an HDP pool.

Related Links

Get-UCPDatacenterReplicationGroup

Get-UCPDatacenterSitePair

New-UCPDatacenterUser

Registers user with UCP DOC and assigns a proper role to the user.

Syntax

```
New-UCPDatacenterUser [-Name] <String> [-RoleName] <RoleType>
[<CommonParameters>]
```

Description

Registers user with UCP DOC and assigns a proper role to the user. The role options can be obtained by using Get-UCPDatacenterRole. Only one Role can be assigned per user.

Parameters

- -Name <String>

Name of an AD user

– Required? true

- Position? 1
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false
- -RoleName <RoleType>

Role option can found from Get-UCPDatacenterRole cmdlet

- Required? true
- Position? 2
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false
- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

Hitachi.UcpDatacenter.CLI.Domain.FederationUser

Notes

Requires UCP DOC Administrator privilege to perform.

Example 1: Register an AD user with the 'Viewer' role

```
C:\PS>New-UCPDatacenterUser -Name ucp\user2 -RoleName Viewer
```

```
Name           : ucp\user2
RoleName       : {Viewer}
Id             : 1
GlobalResourceId : inst.PODF-FED-12345.user.1
ResourceType   : User
InstanceId     : PODF-FED-12345
```

Example 2: Register an AD user with the 'Administrator' role

```
C:\PS>New-UCPDatacenterUser -Name podb\administrator -RoleName
Administrator
```

```
Name           : podb\administrator
RoleName       : {Administrator}
Id             : 3
GlobalResourceId : inst.PODB-FED-12345.user.3
ResourceType   : User
InstanceId     : PODB-FED-12345
```

Related Links

[Set-UCPDatacenterUser](#)

[Get-UCPDatacenterUser](#)

[Remove-UCPDatacenterUser](#)

[Get-UCPDatacenterUserPrivileges](#)

Register-UCPDatacenterInstance

Register new UCP instance into UCPDatacenter.

Syntax

```
Register-UCPDatacenterInstance -Credential <PSCredential> -
DisplayName <String> -ServiceUrl <String> [<CommonParameters>]
```

Description

Registers a UCP site with UCP DOC.

Parameters

- -Credential <PSCredential>
Provide a proper UCP System Administrator user credential.
 - Required? true
 - Position? named
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false
- -DisplayName <String>
Name/Label that will represent the UCP instance.
 - Required? true
 - Position? named
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false
- -ServiceUrl <String>
URL for reaching UCP Director at a UCP site.
 - Required? true
 - Position? named
 - Default value
 - Accept pipeline input? false

- Accept wildcard characters? false
- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

string

Outputs

Hitachi.UcpDatacenter.CLI.Domain.UcpInstanceRegistration

Notes

Requires UCP DOC System Administration privilege.

Example 1: Register UCP instance into UCPDatacenter

```
C:\PS>Register-UCPDatacenterInstance -Credential $credential -
  DisplayName pod15 -ServiceUrl https://10.21.100.6/api
```

```
DisplayName : pod15
Id          : v2Pod15-123-456-789
SerialNumber : v2Pod15-123-456-789
ServiceUrl  : https://10.21.100.6/api
UcpId       : inst.v2Pod15-123-456-789
UcpIdType   : Instance
UserName    : ucpadmin@ucp.local
```

Related Links

[Unregister-UCPDatacenterInstance](#)

[Get-UCPDatacenterInstance](#)

[Set-UCPDatacenterInstance](#)

Remove-UCPDatacenterReplicatedVolumePair

Removes the replicated volume pair from a replication group.

Syntax

```
Remove-UCPDatacenterReplicatedVolumePair [-Force] [-SitePairId]
<String> [-ReplicationGroupId] <String> [-ReplicatedVolumePairId]
<String> [<CommonParameters>]
```

Description

Stops replication and removes the replicated volume pair from a replication group.

Parameters

- -Force
Runs without prompting.
 - Required? false
 - Position? named
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false
- -SitePairId <String>
The identifier of the target site pair. Use Get-UCPDatacenterSitePair to determine the ID.
 - Required? true
 - Position? 1
 - Default value
 - Accept pipeline input? true (ByPropertyName)
 - Accept wildcard characters? false

- -ReplicationGroupId <String>

The identifier of the replication group containing the target volumes. use Get-UCPDatacenterReplicationGroup to get the ID.

- Required? true
- Position? 2
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -ReplicatedVolumePairId <String>

The identifier of the volumes that will have replication removed. Use Get-UCPDatacenterReplicatedVolumePair to get the ID.

- Required? true
- Position? 3
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

None

Notes

Requires UCP DOC Administrator privilege.

Example 1: Remove replicated volume pair

```
C:\PS>Remove-UCPDatacenterReplicatedVolumePair -SiteId 1 -  
ReplicationGroupId payrollRG -ReplicatedVolumePairId P-payrollRG-500-600  
-Force
```

Related Links

New-UCPDatacenterReplicatedVolumePair

Get-UCPDatacenterReplicatedVolumePair

Remove-UCPDatacenterReplicationGroup

Stops replication and removes the replication group and associated replicated volume pairs and test volume pairs. No volumes are removed in this process. All volumes remain attached to their servers or clusters on both the protected and recovery sites.

For Hitachi Universal Replicator, this operation will remove the journals and free the associated journal volumes for reuse.

Syntax

```
Remove-UCPDatacenterReplicationGroup [-Force] [-SitePairId] <String> [-  
ReplicationGroupId] <String> [<CommonParameters>]
```

Description

Stops replication and removes the replication group and associated replicated volume pairs and test volume pairs. No volumes are removed in this process. All volumes remain attached to their servers or clusters on both the protected and recovery sites.

For Hitachi Universal Replicator, this operation will remove the journals and free the associated journal volumes for reuse.

Parameters

- -Force

Runs without prompting.

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -SitePairId <String>

The identifier of the replication group which will have replication removed. Use Get-UCPDatacenterReplicationGroup to get the ID.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -ReplicationGroupId <String>

The identifier of the target site pair. Use Get-UCPDatacenterSitePair to determine the ID.

- Required? true
- Position? 2
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

None

Notes

Requires UCP DOC Administrator privilege.

Example 1: Remove replication group from site pair

```
C:\PS>Remove-UCPDatacenterReplicationGroup 1 payrollRG
```

```
Confirm
Proceed removing replication group?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): Y
```

Related Links

Get-UCPDatacenterReplicationGroup

Remove-UCPDatacenterSitePair

Removes the data replication pairing of UCP sites.

Syntax

```
Remove-UCPDatacenterSitePair [-Force] [-SitePairId] <String>
[<CommonParameters>]
```

Description

When a site pair is removed, replication is stopped between the two sites, and the replicated volumes and test volumes, if any, are deleted. For Hitachi Universal Replicator, the associated journals are also removed.

Parameters

- -Force

Runs without prompting.

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -SitePairId <String>

The identifier of the target site pair. Use Get-UCPDatacenterSitePair to determine the ID.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

None

Notes

Requires UCP DOC Administrator privilege.

Example 1: Remove site pair from UCP DOC

```
C:\PS>Remove-UCPDatacenterSitePair -SitePairId 1 -Force
```

Related Links

Get-UCPDatacenterSitePair

Remove-UCPDatacenterTestVolumePair

Removes test volumes for an entire replication group.

Syntax

```
Remove-UcpDatacenterTestVolumePair [-Force] [-SitePairId] <String> [-  
ReplicationGroupId] <String> [<CommonParameters>]
```

Description

All test volumes associated with the replication group are deleted. Replicated volumes in the replication group will continue to exist and will maintain their relationship with primary (protected) volumes.

Parameters

- -Force
Optional flag. Executes the command without prompting for confirmation.
– Required? false

- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false
- -SitePairId <String>

ID of the site pair in which to find the replication group to deleted test volumes for.
 - Required? true
 - Position? 1
 - Default value
 - Accept pipeline input? true (ByPropertyName)
 - Accept wildcard characters? false
- -ReplicationGroupId <String>

ID of the replication group to delete test volumes from.
 - Required? true
 - Position? 2
 - Default value
 - Accept pipeline input? true (ByPropertyName)
 - Accept wildcard characters? false
- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (<http://go.microsoft.com/fwlink/?LinkID=113216>).

Inputs

String

Outputs

None

Notes

Requires UCP DOC Administrator privilege.

Example: Remove test volume pairs for specified replication group

```
Remove-UcpDatacenterTestVolumePair -Force -SitePairId 1 -  
ReplicationGroupId payrollRG
```

Related Links

[Get-UCPDatacenterSitePair](#)

[Get-UCPDatacenterReplicationGroup](#)

Remove-UCPDatacenterUser

Removes the user from the UCP DOC.

Syntax

```
Remove-UCPDatacenterUser [-Id] <String> [-Force]  
[<CommonParameters>]
```

Description

Removes the user from the UCP DOC.

Parameters

- -Id <String>

Specifies the ID of the user. Use Get-UCPDatacenterUser to discover the user ID.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -Force

Indicates the user should not be prompted to confirm that the user should be removed.

- Required? false
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

None

Notes

Requires UCP DOC System Administration privilege.

Example 1: Remove a user from UCP DOC

```
C:\PS>Remove-UCPDatacenterUser -Id 2

Confirm
Proceed removing datacenter user?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"):
```

Related Links

Get-UCPDatacenterUser

Set-UCPDatacenterConfiguration

Modifies the configuration of UCP DOC.

Syntax

```
Set-UCPDatacenterConfiguration -AmqpUsername <String> -
AmqpPassword <String> [<CommonParameters>]
```

Description

Modifies the AMQP username and AMQP password of UCP DOC.

Parameters

- -AmqpUsername <String>
Specifies the new AMQP username that is to be used to get the monitoring state of the UCP instance.
 - Required? true
 - Position? named

- Default value
- Accept pipeline input? false
- Accept wildcard characters? false
- -AmqpPassword <String>

Specifies the new AMQP password that is to be used to get the monitoring state of the UCP instance.

 - Required? true
 - Position? named
 - Default value
 - Accept pipeline input? false
 - Accept wildcard characters? false
- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

Hitachi.UcpDatacenter.CLI.Domain.DatacenterConfiguration

Notes

Requires UCP DOC Administrator privilege.

Example 1: Modifies the AMQP username and AMQP password of UCP DOC

```
C:\PS>Set-UCPDatacenterConfiguration -AmqpUsername ucp -AmqpPassword
passw0rd
```

```
AmqpUsername      : ucp
Id                : 1
GlobalResourceId  : inst.PODF-FED-12345.dccfg.1
ResourceType     : DatacenterConfiguration
InstanceId        : PODF-FED-12345
```

Related Links

[Get-UCPDatacenterConfiguration](#)

Set-UCPDatacenterInstance

Modifies the information of the UCP Pro for VMware vSphere site.

Syntax

```
Set-UCPDatacenterInstance -Credential <PSCredential> -DisplayName
<String> [-InstanceId] <String> -ServiceUrl <String>
[<CommonParameters>]
```

Description

Modifies the information of the UCP instance registered with UCP DOC.

Parameters

- -Credential <PSCredential>

Specifies the new username and password that is to be used to manage the UCP instance.

- Required? true
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -DisplayName <String>

Specifies the new display name that is shown in UCP DOC.

- Required? true
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -InstanceId <String>

Specifies the instance ID of a registered UCP site. Use Get-UCPDatacenterInstance to discover the instance ID.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -ServiceUrl <String>

Specifies the service URL for UCP Director at the specified UCP site.

- Required? true
- Position? named
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

Hitachi.UcpDatacenter.CLI.Domain.UcpInstanceRegistration

Notes

Requires UCP DOC System Administration privilege.

Example 1: Update the information of the UCP instance

```
C:\PS>C:\PS>$cred = Get-Credential
C:\PS>Set-UCPDatacenterInstance -Credential $cred -DisplayName UCP-01 -
InstanceId 1483729 -ServiceUrl https://ucpmanagement.ucp.local/api
```

```
DisplayName   : UCP-01
Id            : 1483729
SerialNumber  : 1483729
ServiceUrl    : https://ucpmanagement.ucp.local/api
UcpId         : inst.1483729
UcpIdType     : Instance
UserName      : ucpadmin@ucp.local
```

Related Links

Get-UCPDatacenterInstance

Set-UCPDatacenterReplicationGroup

Recreate replication on a replication group.

Syntax

```
Set-UCPDatacenterReplicationGroup [-SitePairId] <String> [-
ReplicationGroupId] <String> [-PrimarySiteId] <String> [-PairStatus]
<String> [<CommonParameters>]
```

Description

If replicated volume pairs in a replication group are in a suspended state due to a failed replication link, this command will create or restart the replication for those replicated volume pairs. The replicated volume pairs that are in Pair status will not be affected.

Parameters

- -SitePairId <String>

The identifier of the target site pair. Use Get-UCPDatacenterSitePair to determine the ID.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -ReplicationGroupId <String>

The identifier of the replication group of which to force pair and resynchronization. use Get-UCPDatacenterReplicationGroup to get the ID.

- Required? true
- Position? 2
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

- -PrimarySiteId <String>

The identifier of the protected site. If some volumes are already in the pair state and the wrong protected site is given, the job will fail. Use Get-UCPDatacenterInstance to get the site ID.

- Required? true
- Position? 3
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- -PairStatus <String>

PairStatus must always be set to PAIR.

- Required? true
- Position? 4
- Default value
- Accept pipeline input? false
- Accept wildcard characters? false

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

Hitachi.UcpDatacenter.CLI.Domain.ReplicationGroup

Notes

Requires UCP DOC Administrator privilege.

Example 1: Recreate replication on replication group at site pair

```
C:\PS>Set-UCPDatacenterReplicationGroup -SitePairId 1 -
ReplicationGroupId payrollRG -PrimarySiteId Chicago-5678 -PairStatus
PAIR
```

ReplicationGroupId	Name	SitePairId	Status
-----	-----	-----	-----
payrollRG	payrollRG	4	Consistent

Related Links

New-UCPDatacenterReplicatedVolumePair

Set-UCPDatacenterUser

Modifies the user role in the UCP DOC.

Syntax

```
Set-UCPDatacenterUser [-Id] <String> [-RoleName] <RoleType[]>
[<CommonParameters>]
```

Description

Modifies the user role in the UCP DOC.

Parameters

- -Id <String>
 - Specifies the ID of the user. Use Get-UCPDatacenterUser to discover the user ID.
 - Required? true
 - Position? 1
 - Default value

- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false
- -RoleName <RoleType[]>

Specifies the user role. The supported user roles are Administrator and Viewer.
 - Required? true
 - Position? 2
 - Default value
 - Accept pipeline input? true (ByPropertyName)
 - Accept wildcard characters? false
- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

Hitachi.UcpDatacenter.CLI.Domain.FederationUser

Notes

Requires UCP DOC System Administration privilege.

Example 1: Update the user role

```
C:\PS>Set-UCPDatacenterUser -Id 2 -RoleName Administrator
```



```

Name           : podb\ucpadmin
RoleName       : {Administrator}
Id             : 2
GlobalResourceId : inst.PODB-FED-12345.user.2
ResourceType   : User
InstanceId     : PODB-FED-12345

```

Related Links

Get-UCPDatacenterUser

Unregister-UCPDatacenterInstance

Unregisters a UCP site from UCP DOC.

Syntax

```

Unregister-UCPDatacenterInstance [-InstanceId] <String>
[<CommonParameters>]

```

Description

Unregisters UCP Pro for VMware vSphere site from UCP DOC.

Parameters

- -InstanceId <String>

Specifies the instance ID of registered UCP site. Use Get-UCPDatacenterInstance to discover the instance ID.

- Required? true
- Position? 1
- Default value
- Accept pipeline input? true (ByPropertyName)
- Accept wildcard characters? false

Update-UCPDatacenterSitePairInventory

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

String

Outputs

None

Notes

Requires the UCP DOC Administrator privilege.

Example 1: Unregister the UCP instance

```
C:\PS>Unregister-UCPDatacenterInstance -InstanceId 1483729
```

Related Links

Get-UCPDatacenterInstance

Update-UCPDatacenterSitePairInventory

Refreshes UCP DOC SitePair inventory.

Syntax

```
Update-UCPDatacenterSitePairInventory [<CommonParameters>]
```

Description

Refreshes UCP DOC site pair inventory.

Parameters

- <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, type, "get-help about_commonparameters".

Inputs

None

Outputs

None

Example 1: Refreshes UCP Datacenter SitePair inventory

```
C:\PS>Update-UCPDatacenterSitePairInventory
```


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