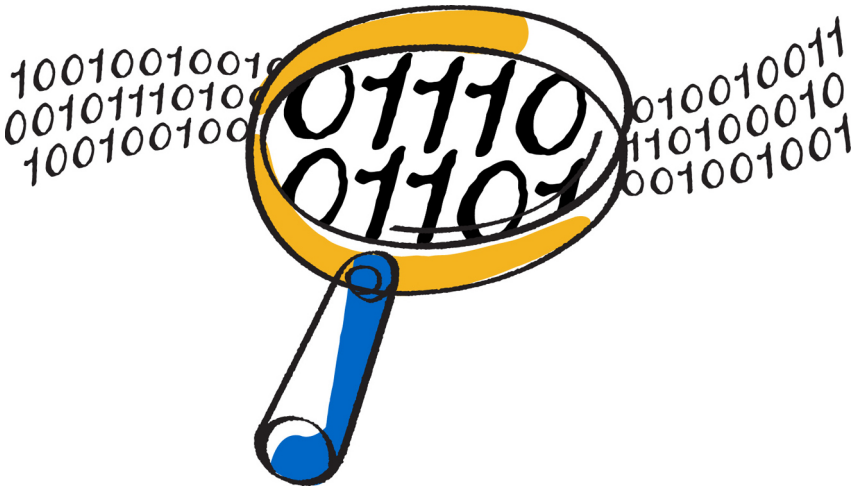
OnCommand® Shift 1.1

Cmdlet Reference Guide



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Connect-ShiftServer

This command connects the client to the OnCommand Shift Server

Syntax

Connect-ShiftServer [[-host] <String>] [[-port] <Int32>] [-credential] <PSCredential> [[-timeoutsec] <Int32>] [<CommonParameters>]

Detailed Description

This command enables you to connect the client to the OnCommand Shift Server

Related Commands

Disconnect-ShiftServer

Parameters

Name	Description	Required?	Pipeline Input	Default Value
host	Specifies the host name of the OnCommand Shift Server. You can identify the host with the host name or the host IP address. The host IP address must be IPv4; IPv6 is not accepted.	false	true (ByPropertyName)	localhost
port	Specifies the port number of the OnCommand Shift Server	false	true (ByPropertyName)	8443
credential	Specifies the server credential used to connect to the OnCommand Shift Server. The server username must be admin. [Short form: -cred]	true	true (ByPropertyName)	
timeoutsec	Specifies the connection timeout value in seconds	false	true (ByPropertyName)	30

Examples

EXAMPLE 1

```
Connect-ShiftServer
```

This example connects to the OnCommand Shift Server, which is located at the default location of "localhost", at the default port 8443. User will be prompted for entering credentials to connect to the Shift Server

EXAMPLE 2

```
Connect-ShiftServer -host ShiftServer -port 8181
```

This example connects to the OnCommand Shift Server, which is located at "ShiftServer", at port 8181. User will be prompted for entering credentials to connect to the Shift Server

EXAMPLE 3

```
$password = ConvertTo-SecureString -AsPlainText -Force "password"$cred = new-object -
typename System.Management.Automation.PSCredential -argumentlist "admin", $passwordConnect-
ShiftServer -cred $cred
```

This example connects to the OnCommand Shift Server, which is located at the default location of "localhost", at the default port 8443 with the credentials provided in $cred.

Convert-ShiftVirtualMachine

This command converts the virtual machine from source hypervisor to destination hypervisor

Syntax

Convert-ShiftVirtualMachine [-source] <String> [-destination] <String> [-name] <String> [[-credential] <PSCredential>] [[-ipAddress] <String>] [[-domain] <String>] [[-resourcePoolName] <String>] [[-rollback] <Boolean>] [[-uninstallvmtools] <Boolean>] [-force] [<CommonParameters>]

Detailed Description

This command enables you to convert a virtual machine from source hypervisor to destination hypervisor. You will be prompted to confirm the conversion operation before the job begins. You can bypass this confirmation using the -force parameter

Related Commands

Restore-ShiftVirtualMachine

Parameters

Name	Description	Required?	Pipeline Input	Default Value
source	Specifies the source VM format [Short form: -src] [Acceptable values: esx,hyperv]	true	true (ByPropertyName)	
destination	Specifies the destination VM format [Short form: -dest] [Acceptable values: esx,hyperv]	true	true (ByPropertyName)	
name	Specifies the name of the virtual machine	true	true (ByPropertyName)	
credential	Specifies the credential of the virtual machine [Short form: -cred]	false	true (ByPropertyName)	
ipAddress	Specifies the IP address of the virtual machine	false	true (ByPropertyName)	
domain	Specifies the domain of the virtual machine	false	true (ByPropertyName)	
resourcePoolName	ESX destination only: Assigns newly-converted VMs to a preexisting VMware resource pool. If not specified, the default will be used	false	true (ByPropertyName)	
rollback	Specifies whether to rollback the source virtual machine. If not specified, the default is true	false	true (ByPropertyName)	True
uninstallvmtools	Specifies whether to uninstall VMware tools on the source virtual machine. If not specified, the default is true [Short form: -tools]	false	true (ByPropertyName)	True
force	Bypasses the confirmation prompt	false	false	False

Examples

EXAMPLE 1

```
Convert-ShiftVirtualMachine -source esx -destination hyperv -name TestVM
```

This command converts the virtual machine named as TestVM from Esx to Hyper-V

EXAMPLE 2

```
$password = ConvertTo-SecureString -AsPlainText -Force "password"$cred = new-object -
typename System.Management.Automation.PSCredential -argumentlist "admin", $passwordConvert-
ShiftVirtualMachine -source esx -destination hyperv -name TestVM -credential $cred -ipAddress
 10.0.0.1 -domain englab
```

This command converts the virtual machine named as TestVM from ESX to Hyper-V

EXAMPLE 3

```
Convert-ShiftVirtualMachine -source hyperv -destination esx -name TestVM
```

This command converts the virtual machine named as TestVM from Hyper-V to ESX

EXAMPLE 4

```
Convert-ShiftVirtualMachine -source hyperv -destination esx -name TestVM -rollback $false
```

This command converts the virtual machine named as TestVM from Hyper-V to ESX and does not rollback the source virtual machine after the conversion

Disconnect-ShiftServer

This command disconnects the client from the OnCommand Shift Server

Syntax

Disconnect-ShiftServer [<CommonParameters>]

Detailed Description

This command enables you to disconnect the client from the OnCommand Shift Server

Related Commands

Connect-ShiftServer

Parameters

Name	Description	Required?	Pipeline Input	Default Value

Examples

EXAMPLE 1

```
Disconnect-ShiftServer
```

This example disconnects from the OnCommand Shift Server

Get-ShiftGuestOSConfig

Gets the shift Guest OS config

Syntax

Get-ShiftGuestOSConfig [<CommonParameters>]

Detailed Description

This command enables you to view the existing OnCommand Shift Server guest OS configuration

Related Commands

Set-ShiftGuestOSConfig

Parameters

Name	Description	Required?	Pipeline Input	Default Value

Examples

EXAMPLE 1

```
Get-ShiftGuestOSConfig
```

This example displays the existing guest OS configuration for the OnCommand Shift Server

Get-ShiftHypervisorConfig

This command displays the existing OnCommand Shift Server hypervisor configuration

Syntax

Get-ShiftHypervisorConfig [[-name] <String>] [<CommonParameters>]

Detailed Description

This command enables you to view the existing OnCommand Shift Server hypervisor configuration

Related Commands

Set-ShiftHypervisorConfig

Parameters

Name	Description	Required?	Pipeline Input	Default Value
name	Specifies the configuration name you wish to view	false	true (ByPropertyName)	

Examples

EXAMPLE 1

```
Get-ShiftHypervisorConfig
```

This example displays the existing configuration of all the hypervisors

EXAMPLE 2

```
Get-ShiftHypervisorConfig -name VMWARE
```

This example displays the existing configuration of the specified hypervisor VMWARE

Get-ShiftJobStatus

This command displays the OnCommand Shift Server job status

Syntax

Get-ShiftJobStatus [[-name] <String>] [-loop] [<CommonParameters>]

Detailed Description

This command enables you to view the status of jobs running on the OnCommand Shift Server

Related Commands

Parameters

Name	Description	Required?	Pipeline Input	Default Value
name	Specifies the name of the job you wish to check the status for. If you do not specify a job name, this command will check the status of all jobs	false	true (ByPropertyName)	
loop	Specifies to refresh the job status every 10 seconds. To cancel, press ctrl+c.	false	false	False

Examples

EXAMPLE 1

```
Get-ShiftJobStatus
```

This example displays the status for all the jobs

EXAMPLE 2

```
Get-ShiftJobStatus -name J_23f88bec-205c-42c2-8119-586abce05f3a
```

This example displays the status for the job named "J_23f88bec-205c-42c2-8119-586abce05f3a"

Get-ShiftNetworkConfig

This command displays the current OnCommand Shift Server network configuration

Syntax

Get-ShiftNetworkConfig [[-name] <String>] [<CommonParameters>]

Detailed Description

This command enables you to view the existing OnCommand Shift Server network configuration for a specified network

Related Commands

Add-ShiftNetworkConfig

Remove-ShiftNetworkConfig

Set-ShiftNetworkConfig

Parameters

Name	Description	Required?	Pipeline Input	Default Value
name	Specifies the name of the network whose network configuration you want to display	false	true (ByPropertyName)	

Examples

EXAMPLE 1

```
Get-ShiftNetworkConfig
```

This example displays the network configuration for all the networks

EXAMPLE 2

```
Get-ShiftNetworkConfig -name Network-A
```

This example displays the network configuration for the network named "Network-A"

Get-ShiftOntapConfig

This command displays the existing Data ONTAP configuration of the OnCommand Shift Server

Syntax

Get-ShiftOntapConfig [<CommonParameters>]

Detailed Description

This command enables you to view the existing Data ONTAP configuration of the OnCommand Shift Server

Related Commands

Set-ShiftOntapConfig

Parameters

Name	Description	Required?	Pipeline Input	Default Value

Examples

EXAMPLE 1

```
Get-ShiftOntapConfig
```

This example displays the existing Data ONTAP configuration for the OnCommand Shift Server

Get-ShiftReport

This command downloads the OnCommand Shift report

Syntax

Get-ShiftReport [[-file] <String>] [<CommonParameters>]

Detailed Description

This command enables you to download the OnCommand Shift report, shiftreport.csv. The report includes the following information: Time, conversion direction, name of the VM, operation status, disk count, total disk size in GB and conversion time in seconds.

Related Commands

Parameters

Name	Description	Required?	Pipeline Input	Default Value
file	Specifies the file name to assign to the OnCommand Shift report	false	true (ByPropertyName)	

Examples

EXAMPLE 1

```
Get-ShiftReport -file shiftreport.csv
```

Downloads shift report as shiftreport.csv in the current folder

Get-ShiftServerState

This command displays the state of the OnCommand Shift Server

Syntax

Get-ShiftServerState [[-host] <String>] [[-port] <Int32>] [[-timeoutsec] <Int32>] [<CommonParameters>]

Detailed Description

This command enables you to view the state of the OnCommand Shift Server

Related Commands

Parameters

Name	Description	Required?	Pipeline Input	Default Value
host	Specifies the host name of the OnCommand Shift Server	false	true (ByPropertyName)	localhost
port	Specifies the port number of the OnCommand Shift Server	false	true (ByPropertyName)	8443
timeoutsec	Specifies the state check timeout value in seconds	false	true (ByPropertyName)	30

Examples

EXAMPLE 1

```
Get-ShiftServerState
```

This example displays the state of the OnCommand Shift Server installed at default host "localhost" at default port "8443"

EXAMPLE 2

```
Get-ShiftServerState -host ShiftServer -port 8181
```

This example displays the state of the OnCommand Shift Server installed at host "ShiftServer" at port "8181"

New-ShiftSVM

This command creates the OnCommand Shift SVM

Syntax

New-ShiftSVM [-file <String>] [[-vserverName] <String>] [[-aggrName] <String>] [[-cifsPort] <String>] [[-nfsPort] <String>] [[-dataVolumeName] <String>] [[-volumeSizeGig] <String>] [[-nfsIpAddress] <String>] [[-cifsIpAddress] <String>] [[-nfsNetMask] <String>] [[-cifsNetMask] <String>] [-domaincred] <PSCredential> [[-cifsServerName] <String>] [[-cifsShareName] <String>] [[-esxMountPoint] <String>] [[-dnsDomain] <String>] [[-dnsNameServers] <String[]>] [[-datastoreName] <String>] [[-esxIpAddr] <String>] [[-destinationAddress] <String>] [[-gatewayAddress] <String>] [-force] [<CommonParameters>]

Detailed Description

This command enables you to create the OnCommand Shift SVM. The SVM is required for all conversion operations

Related Commands

Parameters

Name	Description	Required?	Pipeline Input	Default Value
file	Directs the command to an external file that includes all required input parameters. [Value format: txt]	false	true (ByPropertyName)	
vserverName	Specifies the name of the SVM that you are creating	false	true (ByPropertyName)	
aggrName	Assigns the SVM to the specified aggregate	false	true (ByPropertyName)	
cifsPort	Specifies the target CIFS port number. This can be a string or an integer	false	true (ByPropertyName)	
nfsPort	Specifies the target NFS port number. This can be a string or an integer	false	true (ByPropertyName)	
dataVolumeName	Specifies the target data volume name. [Short form: -volName]	false	true (ByPropertyName)	
volumeSizeGig	Specifies the size of the target volume in GB. [Short form: -volSize]	false	true (ByPropertyName)	
nfsIpAddress	Specifies the target NFS IP address. [Short form: -nfsIP]	false	true (ByPropertyName)	
cifsIpAddress	Specifies the target CIFS IP address. [Short form: -cifsIP]	false	true (ByPropertyName)	
nfsNetMask	Specifies the target NFS netmask	false	true (ByPropertyName)	

Name	Description	Required?	Pipeline Input	Default Value
cifsNetMask	Specifies the target CIFS netmask	false	true (ByPropertyName)	
domaincred	Specifies the domain credential used to create the new SVM. [Short form: -cred]	true	true (ByPropertyName)	
cifsServerName	Specifies the target CIFS server name	false	true (ByPropertyName)	
cifsShareName	Specifies the CIFS share name	false	true (ByPropertyName)	
esxMountPoint	Specifies the target ESX mount point	false	true (ByPropertyName)	
dnsDomain	Specifies the target DNS domain	false	true (ByPropertyName)	
dnsNameServers	Specifies the DNS name servers	false	true (ByPropertyName)	
datastoreName	Specifies the VMware Datastore name	false	true (ByPropertyName)	
esxIpAddr	Specifies the ESX IP address	false	true (ByPropertyName)	
destinationAddress	Specifies the destination IP address of the route's destination. [Short form: -destAddress]	false	true (ByPropertyName)	
gatewayAddress	Specifies the IP address of the gateway server leading to the route's destination	false	true (ByPropertyName)	
force	Bypasses the confirmation prompt	false	false	False

Examples

EXAMPLE 1

```
New-ShiftSVM -vserverName myvserver -aggrName myaggr -cifsPort e1a -nfsPort e1a -volName v1 -
volSize 200 -nfsIP 10.225.13.144 -cifsIP 10.225.13.144 -nfsNetMask 255.255.252.0 -cifsNetMask
 255.255.252.0
-cifsServerName shiftCifsServer -cifsShareName shiftCifsShare -esxMountPoint shiftNfsShare
 -dnsDomain mva.gdl.englab.netapp.com -dnsNameServers 10.225.12.103, 10.225.12.104 -
datastoreName Test_DataStore
-esxIpAddr 10.225.24.198 -destinationAddress 10.225.12.22 -gatewayAddress 10.225.12.1
```

This example creates an OnCommand Shift SVM using the parameters specified. User will be prompted for domain admin credentials.

EXAMPLE 2

```
New-ShiftSVM -file svm_params.txt
```

This example creates an OnCommand Shift SVM using the parameters from the file svm_params.txt. User will be prompted for domain admin credentials. The file svm_params.txt should have the following entries:

vserverName=Shift

aggrName=myAggr

cifsPort=e1a

nfsPort=e1a

```
dataVolumeName=vmdata
volumeSizeGig=200
nfsIpAddress=10.225.13.144
cifsIpAddress=10.225.13.144
nfsNetMask=255.255.252.0
cifsNetMask=255.255.252.0
cifsServerName=shiftCifsServer
cifsShareName=shiftCifsShare
esxMountPoint=shiftNfsShare
dnsDomain=mva.gdl.englab.netapp.com
dnsNameServers=10.225.12.103,10.225.12.104
datastoreName=Test_DataStore
esxIpAddr=10.225.24.198
destinationAddress=10.225.12.0/22
gatewayAddress=10.225.12.1
```

Remove-ShiftNetworkConfig

This command removes the existing OnCommand Shift Server network configuration. After removing the network configuration, you can add a new one using Add-ShiftNetworkConfig

Syntax

Remove-ShiftNetworkConfig [[-name] <String>] [-force] [<CommonParameters>]

Detailed Description

This command enables you to remove the existing OnCommand Shift Server network configuration. You will be prompted to confirm the operation before the job begins. You can bypass this confirmation using the -force parameter

Related Commands

Add-ShiftNetworkConfig

Get-ShiftNetworkConfig

Set-ShiftNetworkConfig

Parameters

Name	Description	Required?	Pipeline Input	Default Value
name	Specifies a name for the network configuration you want to remove	false	true (ByPropertyName)	
force	Bypasses the confirmation prompt	false	false	False

Examples

EXAMPLE 1

```
Remove-ShiftHypervisorConfig
```

This example removes all the OnCommand Shift Server network configurations

EXAMPLE 2

```
Remove-ShiftHypervisorConfig -name Network-A
```

This example removes the OnCommand Shift Server network configuration named "Network-A"

Restore-ShiftVirtualMachine

This command restores a virtual machine from the latest OnCommand Shift backup

Syntax

Restore-ShiftVirtualMachine [-name] <String> [-source] <String> [-force] [<CommonParameters>]

Detailed Description

When a conversion operation fails, OnCommand Shift will attempt to automatically roll back the source virtual machine. If the automatic rollback fails, this command enables you to manually restore the source virtual machine from its pre-conversion backup

Related Commands

Convert-ShiftVirtualMachine

Parameters

Name	Description	Required?	Pipeline Input	Default Value
name	Specifies the name of the VM for restoration	true	true (ByPropertyName)	
source	Specifies the VM source format: ESX or Hyper-V. [Short form: -src] [Acceptable values: esx, hyperv]	true	true (ByPropertyName)	
force	Bypasses the confirmation prompt	false	false	False

Examples

EXAMPLE 1

```
Restore-ShiftVirtualMachine -source esx -name TestVM
```

This example restores the source virtual machine named "TestVM" from its backup

Set-ShiftGuestOSConfig

This command updates the existing OnCommand Shift Server guest OS configuration

Syntax

Set-ShiftGuestOSConfig [-credential] <PSCredential> [[-domain] <String>] [-force] [<CommonParameters>]

Detailed Description

This command enables you to update the existing OnCommand Shift guest OS configuration You will be prompted to confirm the set operation before the job begins. You can bypass this confirmation using the force parameter

Related Commands

Get-ShiftGuestOSConfig

Parameters

Name	Description	Required?	Pipeline Input	Default Value
credential	Specifies the credential of the Guest OS configuration. [Short form: -cred]	true	true (ByPropertyName)	
domain	Specifies the domain of the Guest OS configuration	false	true (ByPropertyName)	
force	Bypasses the confirmation prompt	false	false	False

Examples

EXAMPLE 1

```
Set-ShiftGuestOSConfig -domain eng
```

This example sets the guest OS configuration for the OnCommand Shift Server with the domain "eng". User will be prompted for entering the Guest OS credentials

EXAMPLE 2

```
$password = ConvertTo-SecureString -AsPlainText -Force "GuestOSPassword"$cred = new-object
 -typename System.Management.Automation.PSCredential -argumentlist "GuestOSUsername",
 $passwordSet-ShiftGuestOSConfig -domain eng -cred $cred
```

This example sets the guest OS configuration for the OnCommand Shift Server with the domain "eng" and the credentials to those provided in the $cred parameter

Set-ShiftHypervisorConfig

This command updates the existing OnCommand Shift Server hypervisor configuration

Syntax

Set-ShiftHypervisorConfig [-name] <String> [-credential] <PSCredential> [[-IPaddress] <String>] [[-hostname] <String>] [[-datacenter] <String>] [-force] [<CommonParameters>]

Detailed Description

This command enables you to update the existing OnCommand Shift Server hypervisor configuration You will be prompted to confirm the set operation before the job begins. You can bypass this confirmation using the -force parameter

Related Commands

Get-ShiftHypervisorConfig

Parameters

Name	Description	Required?	Pipeline Input	Default Value
name	Specifies the name of the configuration you wish to update	true	true (ByPropertyName)	
credential	Specifies the credential associated with the hypervisor whose configuration you wish to update. [Short form: -cred]	true	true (ByPropertyName)	
IPaddress	Specifies the IP address of the hypervisor whose configuration you wish to update. [Short form: -IP]	false	true (ByPropertyName)	
hostname	Specifies the hostname of the hypervisor whose configuration you wish to update. [Short form: -host]	false	true (ByPropertyName)	
datacenter	Specifies the name of the datacenter you wish to reassign the hypervisor configuration to	false	true (ByPropertyName)	
force	Bypasses the confirmation prompt	false	false	False

Examples

EXAMPLE 1

```
Set-ShiftHypervisorConfig -name vmware -IPaddress 10.0.0.1
```

This example updates the hypervisor configuration for VMware with the ipaddress "10.0.0.1" and the credentials to those provided in the $cred parameter

EXAMPLE 2

```
$password = ConvertTo-SecureString -AsPlainText -Force "HypervisorPassword"$cred = new-object
 -typename System.Management.Automation.PSCredential -argumentlist "HypervisorUsername",
 $passwordSet-ShiftHypervisorConfig -name vmware -IPaddress 10.0.0.1 -cred $cred
```

This example updates the hypervisor configuration for VMware with the ipaddress "10.0.0.1" and the credentials to those provided in the $cred parameter

Set-ShiftNetworkConfig

This command updates the existing OnCommand Shift Server network configuration

Syntax

Set-ShiftNetworkConfig [-name] <String> [[-vmPortGroup] <String>] [[-hypervSwitch] <String>] [[-vLanId] <Int32>] [-force] [<CommonParameters>]

Detailed Description

This command enables you to update the existing OnCommand Shift Server network configuration

Related Commands

Add-ShiftNetworkConfig

Get-ShiftNetworkConfig

Remove-ShiftNetworkConfig

Parameters

Name	Description	Required?	Pipeline Input	Default Value
name	Specifies the name of the network configuration you wish to update	true	true (ByPropertyName)	
vmPortGroup	Specifies the name of the source hypervisor switch for your network configuration you want to update	false	true (ByPropertyName)	
hypervSwitch	Specifies the name of the destination hypervisor switch for your network configuration you want to update	false	true (ByPropertyName)	
vLanId	For Hyper-V only: specifies the vLan ID of the network configuration you want to update	false	true (ByPropertyName)	0
force	Bypasses the confirmation prompt	false	false	False

Examples

EXAMPLE 1

```
Set-ShiftNetworkConfig -name Network-A -vmPortGroup switchA -hypervSwitch switchB
```

This example updates the existing network configuration for "Network-A", with "switchA" as the vm port group, and "switchB" as the hyperv switch

Set-ShiftOntapConfig

This command updates the existing OnCommand Shift Server Data ONTAP configuration.

Syntax

Set-ShiftOntapConfig [-credential] <PSCredential> [[-clusterIp] <String>] [[-destinationPath] <String>] [-force] [<CommonParameters>]

Detailed Description

This command enables you to update the existing OnCommand Shift Server Data ONTAP configuration You will be prompted to confirm the set operation before the job begins. You can bypass this confirmation using the -force parameter

Related Commands

Get-ShiftOntapConfig

Parameters

Name	Description	Required?	Pipeline Input	Default Value
credential	Specifies the credential of the Data ONTAP configuration. [Short form: -cred]	true	true (ByPropertyName)	
clusterIp	Specifies the clusterIp of the Data ONTAP configuration	false	true (ByPropertyName)	
destinationPath	Specifies the destinationPath of the Data ONTAP configuration. [Short form: -destPath]	false	true (ByPropertyName)	
force	Bypasses the confirmation prompt	false	false	False

Examples

EXAMPLE 1

```
Set-ShiftOntapConfig -clusterIp 10.0.0.1 -destinationPath /dest/vm
```

This example updates the clusterIP to "10.0.0.1" and the destination path to "/dest/vm" of the Data ONTAP configuration for the OnCommand Shift Server. User will be prompted for entering the Data ONTAP credentials

EXAMPLE 2

```
Set-ShiftOntapConfig -destinationPath /dest/vm -credential $cred
```

This example updates the destination path of the Data ONTAP configuration to "/dest/vm" for the OnCommand Shift Server and the credentials to those provided in the $cred parameter

Set-ShiftServerCredentials

This command updates the existing OnCommand Shift Server credentials

Syntax

Set-ShiftServerCredentials [-credential] <PSCredential> [-force] [<CommonParameters>]

Detailed Description

This command enables you to update the existing OnCommand Shift Server credentials You will be prompted to confirm the set operation before the job begins. You can bypass this confirmation using the -force parameter

Related Commands

Parameters

Name	Description	Required?	Pipeline Input	Default Value
credential	Specifies the new credential used for the OnCommand Shift Server	true	true (ByPropertyName)	
force	Bypasses the confirmation prompt	false	false	False

Examples

EXAMPLE 1

```
Set-ShiftServerCredentials
```

This example updates the OnCommand Shift Server credential to the one specified in the credential pop up window

EXAMPLE 2

```
$newpassword = ConvertTo-SecureString -AsPlainText -Force "pass"
$newcred = new-object -typename
System.Management.Automation.PSCredential -argumentlist "admin", $newpassword
Set-ShiftServerCredentials -cred $newcred
```

This example updates the OnCommand Shift Server credential to the one specified in the credential parameter

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