

HP Operations Orchestration

For the Windows and Linux operating systems

Software Version: Content Pack 14

Flows and Operations

Document Release Date: May 2014

Software Release Date: May 2014



Legal Notices

Warranty

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

Restricted Rights Legend

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Copyright Notices

© Copyright 2014 Hewlett-Packard Development Company, L.P.

Trademark Notices

Adobe™ is a trademark of Adobe Systems Incorporated.

This product includes an interface of the 'zlib' general purpose compression library, which is Copyright © 1995-2002 Jean-loup Gailly and Mark Adler.

AMD and the AMD Arrow symbol are trademarks of Advanced Micro Devices, Inc.

Google™ and Google Maps™ are trademarks of Google Inc.

Intel®, Itanium®, Pentium®, and Intel® Xeon® are trademarks of Intel Corporation in the U.S. and other countries.

Java is a registered trademark of Oracle and/or its affiliates.

Microsoft®, Windows®, Windows NT®, Windows® XP, and Windows Vista® are U.S. registered trademarks of Microsoft Corporation.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates.

UNIX® is a registered trademark of The Open Group.

Documentation Updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

To check for recent updates or to verify that you are using the most recent edition of a document, go to:

<http://h20230.www2.hp.com/selfsolve/manuals>

This site requires that you register for an HP Passport and sign-in. To register for an HP Passport ID, go to:

<http://h20229.www2.hp.com/passport-registration.html>

Or click the **New users - please register** link on the HP Passport login page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your HP sales representative for details.

Support

Visit the HP Software Support Web site at:

www.hp.com/go/hpssoftwaresupport

This Web site provides contact information and details about the products, services, and support that HP Software offers.

HP Software online support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support Web site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HP Passport user and sign in. Many also require a support contract. To register for an HP Passport ID, go to:

<http://h20229.www2.hp.com/passport-registration.html>

To find more information about access levels, go to:

http://h20230.www2.hp.com/new_access_levels.jsp

HP Software Solutions Now accesses the HPSW Solution and Integration Portal Web site. This site enables you to explore HP Product Solutions to meet your business needs, includes a full list of Integrations between HP Products, as well as a listing of ITIL Processes. The URL for this Web site is <http://h20230.www2.hp.com/sc/solutions/index.jsp>

Flows and Operations

This document lists all the flows and operations available in HP Operations Orchestration.

Note: You need to download the relevant content pack from <https://hpln.hp.com/group/operations-orchestration-content-packs>.

- Accelerator Packs9
 - Active Directory9
 - Application Servers9
 - Database14
 - Exchange21
 - F522
 - IIS22
 - Network23
 - Operating Systems24
 - Virtualization36
 - VMware Server37

- Community38
 - DevOps38

- How Do I Flows38

- Integrations39
 - Amazon39
 - BMC50
 - Citrix XenServer53
 - Computer Associates55
 - F556
 - Hewlett-Packard57
 - IBM84
 - Linux KVM85
 - Microsoft88
 - OpenStack98
 - Symantec Altiris103

VMware	103
ITIL.....	117
Change Management.....	117
Incident Management	117
My Ops Flows.....	119
Operations	119
Active Directory	120
Ant123	
Apache	123
Application Servers	124
Backup Exec.....	127
Databases	128
Email	129
Exchange	130
File System.....	135
Groovy	139
HTTP Client.....	139
IIS	140
JVM	141
LDAP	141
MS Cluster	142
Network.....	145
Operating Systems	149
PowerShell	162
Printing	164
Remote Command Execution.....	166
Remote File Transfer.....	167
Sharepoint.....	169
SNMP	169
TN3270.....	170
Wizards.....	171
WMI.....	171
WS-Management	172

Templates	173
Tutorials	174
Utility Operations	175
Containers	176
Date and Time	177
Flow Variable Manipulation	177
HTML Formatting	178
Looping	178
Math and Comparison	178
Samples	179
XML Processing	179

Accelerator Packs

Includes the following folders:

- [Active Directory](#) – see page 9
- [Application Servers](#) – see page 9
- [Database](#) – see page 14
- [Exchange](#) – see page 21
- [F5](#) – see page 22
- [IIS](#) – see page 22
- [Network](#) – see page 23
- [Operating Systems](#) – see page 24
- [Virtualization](#) – see page 36
- [VMware Server](#) – see page 37

Active Directory

Find Inactive Domain Administrators

Find Inactive Users

Fix Root Hints

Diagnostics

DNS Event Check

Is Account Locked

Health Check

Verify SRV Record

Utility

Create New User

Create New User Group

Application Servers

BEA WebLogic

Health Check

Check Application State

is Application Up

is WebLogic Up

Information Gathering

Query Configuration Manager

Query Domain Configuration

Query Domain Runtime

Query Server Configuration

Query Server Runtime

Utility

Configure Application Deployment Attribute

Configure Server Attribute

Deploy Application

Restart Application

Restart Server

Start Application

Stop Application

Total Server Shutdown

Undeploy Application

Wait For State

Citrix Presentation Server

Health Check

Load Analysis

Information Gathering

Get List of Applications

Get Servers

Get Sessions

Query Application

Utility

Add User to All Applications

Add User to Application

Get All Users

Get Farm Name

Modify Application

Remove User from All Applications

Remove User from Application

Citrix XenApp

Health Check

Load Analysis

Information Gathering

Get List of Applications

Get Servers

Get Sessions

Query Application

Utility

Add User to All Applications

Add User to Application

Get All Users
Get Farm Name
Modify Application
Remove User from All Applications
Remove User from Application

JBoss

Health Check

Active Sessions
Server Start Date
Session Maximum Alive Time

Information Gathering

Cache Maximum Size
Free Memory
Java Version
JBoss Server Version
Server Home Directory

Sub Flows

JBoss Action

Utility

Query MBean
Run Finalization
Run Garbage Collection

Tomcat

Health Check

Security Roles

Session Statistics

Tomcat Application Health

Information Gathering

JNDI Resources List

Server Information

Tomcat Application List

Utility

Deploy Application

Reload Application

Start Application

Stop Application

Tomcat Service Restart

Undeploy Application

WebSphere

Health Check

Check Thread Health

Information Gathering

Gather JVM Details

Gather Server Details

Get System Property

JMS Port Details

Utility

Dump Threads

Generate Heap Dump
Get Versions For All EFixes
Get Versions For All Extensions
Restart Server
Stop Server Immediately
Stop Server Process

Database

Microsoft SQL Server

Diagnostics

SQL Event Log Diagnostic
SQL Server Diagnostic

Health Check

Allocation Information for DB
Integrity Check for DB
Integrity Check for Table
SQL Manager Statistics

Information Gathering

Connectivity Test
Database Size
List of Databases
No of Active Connections
No of Processes
Table Size

Utility

Database Read System Tables Test

Database Write Diagnostic

MS SQL Server Connectivity

SQL Server Repair

SQL Server Soft Reset

Oracle

Diagnostics

Tablespace Diagnostics

Health Check

Blocking sessions

Database Size

No of Active Connections

Wait Class

Information Gathering

All Stream Rules

Database Startup Time

Dictionary View Columns

Dictionary Views

Get Database Status

Get Space Information in TEMPORARY Tablespace

National Language Support Parameters

Object Distribution

Version Banners

View RMAN Output

XML Schemas

Your Stream Rules

All Objects

All Objects

Collection Types

Dependencies

Invalid Objects

Object Count by Type

Public Database Links

Public Synonyms

Application Express

Applications

Pages

Schemas

Workspace

Database Administration

All Parameters

Cursor Detail

Cursors by Sessions

Locks by User

Non Default Parameters

All Tables

All Indexes

All Table Comments

All Tables

All Triggers

Clusters

Column Comments

Columns

Datatype Occurrences

Disabled Triggers

Enabled Triggers

Index Organized Tables

Indexes by Status

Indexes by Type

Largest Average Row Length

Most Rows

Partitioned Tables

Statistics

Table Count by Tablespace

Table with Comments

Table with Unindexed Foreign Keys

Table without Comments

Tables by Tablespace

Tables Without Indexes

Tables Without Primary Keys

Trigger Summary

Unusable Indexes

Constraints

- All Constraints
- Check Constraints
- Disabled Constraints
- Enabled Constraints
- Foreign Key Constraints
- Primary Key Constraints
- Unique Constraints

Sessions

- Active Sessions
- Background Sessions
- Inactive Sessions
- Session Counts by OS User
- Session Counts by Status
- Sessions
- Sessions by Module
- Sessions by Username
- System Sessions

Storage

- Datafiles
- Free space
- Offline Tablespaces
- Tablespace Quotas
- Tablespace Segments

Tablespaces

Users

All Users

Count by Account Status

Count by Default Tablespace

Count by Profile

Count by Temporary Tablespace

Expired

Locked

Object Count by Type

Recently Created

With Objects

Without Objects

Jobs

All jobs

DBA jobs

Your jobs

PLSQL

Program Unit Arguments

Search Source Code

Unit Line Counts

Security

All Encrypted Columns

All Grants

Audit Policies
Column Privileges
Counts by Grantor
Grant DML
Grant Execute
Grant Select
Grantable
Object Grants
Policies
Role Privileges
System Privileges
Your Encrypted Columns

Sub Flows

Set Variable Subflow

Top SQL

Top SQL by Buffer Gets
Top SQL by Buffer Gets per Rows Proc
Top SQL by CPU
Top SQL by Disk Reads
Top SQL by Executions

Utility

Buffer Cache Hit Ratio
Cache Hit Ratio
Identify Index Fragmentation

Library Cache Hit Ratio

Rollback Segments

Sybase

Diagnostics

Threshold Check

Health Check

Allocation Information for DB

Allocation Information for Table

Integrity Check for DB

Integrity Check for Table

Information Gathering

Database Size

List of Databases

No of Active Connections

Table Size

Utility

Backup Database

Default Database

Restore Database

Exchange

Diagnostics

Check for Max Size Limit (16GB or 75GB)

Health Check

Exchange Server Health

Outlook Web Access Health

User Mailbox Health

Utility

Check for Removed Permissions

Check Read Permission ADConfig

Check Rights to Store

Check TMP Drive Access

Clean Exchange Files

Perform Offline Defragmentation

Soft Reset Exchange

TS Information Store Will Not Start

F5

F5 Node Diagnostic

Get Pools with Node

Utility

Temporarily Disable Node

Toggle Node from Pool

Toggle Node from Pool with Threshold

IIS

Health Check

FTP Server Health

NNTP Server Health

Web Server Health

Utility

Remove from F5 Cluster

Remove from Windows Cluster

SMTP Server Health

Soft Reset IIS

Network

Simple SMTP Check

Cisco

Add User to Routers

Change Interface IP Address

Configure DNS Client

Configure SSH

Crash Recovery

Delete User from Routers

Enable All Interfaces

Find Mac Address

Set Banner for Routers

Set Enabled Secret for Routers

Set Time to Now for Routers

CDP

Disable CDP

Enable CDP

Router Integrity Diagnostic

Routing

Basic Router Configuration

Disable Routing

Enable RIP for All Subnets

Enable Routing

VLANs

Modify VLANs

Remove VLAN

Connectivity

Connectivity Test

Iterative Connectivity Test

Operator Server Connectivity Check

Diagnostics

Deep Connectivity Diagnostic

Multihost Connectivity Diagnostic

TraceRoute Diagnostic

Web Pages

Find Pages with Dead Links

Single-page Link Checker

URL Test

Web site Health Check

Operating Systems

AIX

AIX Health Check

Information Gathering

CPU Metrics

Disk Usage

Display File Systems and How Full

Display Free Memory

Display Last Boot Time

Display Number of Processors

Display OS Info

Memory Metrics

Network Metrics

Recent Reboot

Specialized Flows and Ops

Check Process Output

State Change

Server Reboot with Notification

Start Service

Start Service with Notification

Utility

Check for Recent Log Messages

Check For Vital Processes

Check Load Average

Check Process by PID

Get PID from Process Name

Kill Process with Retry

Specialized Flows and Ops

Check Time Duration

Format Disk Space Information

Minutes Since Last Log Message

FreeBSD

Information Gathering

CPU Metrics

Disk Usage

Display File Systems and How Full

Display Free Memory

Display Last Boot Time

Display Number of Processors

Display OS Info

Memory Metrics

Network Metrics

Recent Reboot

State Change

Server Reboot with Notification

Start Service

Start Service with Notification

Utility

Check for Recent Log Messages

Check For Vital Processes

Check Load Average

Check Process by PID

Get PID from Process Name

Kill Process with Retry

Specialized Flows and Ops

Check Time Duration

Format Disk Space Information

Minutes Since Last Log Message

HP-UX

HP-UX Health Check

Information Gathering

CPU Metrics

Disk Usage

Display File Systems and How Full

Display Free Memory

Display Last Boot Time

Display Number of Processors

Display OS Info

Memory Metrics

Network Metrics

Recent Reboot

Specialized Flows and Ops

Check Process Output

State Change

Server Reboot with Notification

Start Service

Start Service with Notification

Utility

Check for Recent Log Messages

Check For Vital Processes

Check Load Average

Check Process by PID

Get PID from Process Name

Kill Process with Retry

Specialized Flows and Ops

Check Time Duration

Format Disk Space Information

Minutes Since Last Log Message

Red Hat

Red Hat Health Check

Information Gathering

CPU Metrics

Disk Usage

Display File Systems and How Full

Display Free Memory

Display Last Boot Time

Display Number of Processors

Display OS Info

Memory Metrics

Network Metrics

Recent Reboot

Specialized Flows and Ops

Check Process Output

State change

Server Reboot with Notification

Start Service

Start Service with Notification

Utility

Check for Recent Log Messages

Check For Vital Processes

Check Load Average

Check Process by PID

Get PID from Process Name

Kill Process with Retry

Specialized Flows and Ops

Check Time Duration

Format Disk Space Information

Is PID Running

Minutes Since Last Log Message

Solaris

Solaris Health Check

Information Gathering

Check CPU Utilization

Check for Recent Log Messages
CPU Metrics
Disk Metrics
Disk Usage
Display File Systems and How Full
Display Free Memory
Display Last Boot Time
Display Number of Processors
Display OS Info
Network Metrics
Recent Reboot

Specialized Flows and Ops

Check Process Output
Check Retry Count

State change

Kill Process with Retry
Server Reboot with Notification
Start Service

Utility

Check For Vital Processes
Check Load Average
Delete Largest File
Disk Full
Kill CPU intense process

Specialized Flows and Ops

Check time duration

Format Disk Space Information

Minutes Since Last Log Message

SUSE Linux

SUSE Linux Health Check

Information Gathering

CPU Metrics

Disk Usage

Display File Systems and How Full

Display Free Memory

Display Last Boot Time

Display Number of Processors

Display OS Info

Memory Metrics

Network Metrics

Recent Reboot

Specialized Flows and Ops

Check Process Output

State Change

Server Reboot with Notification

Start Service

Start Service with Notification

Utility

Check for Recent Log Messages

Check For Vital Processes

Check Load Average

Check Process by PID

Get PID from Process Name

Kill Process with Retry

Specialized Flows and Ops

Check Time Duration

Format Disk Space Information

Minutes Since Last Log Message

Windows

Windows Health Check

Cluster

Windows Cluster Consistency Check

Windows Cluster Reporting

Diagnostics

Device Diagnostic

Filesystem Diagnostic

Iterative CPU Diagnostic

Load Comparison

Memory Diagnostic

Network Diagnostic

Running Processes Diagnostic

Windows Cluster Diagnostic

Windows Diagnostic

PowerShell

Get Execution Policy

Set Execution Policy

Events

Clear Event Log

Get Event Log

Limit Event Log

List Event Types

Remove Event Log

Unregister Event Source

Write Event Log

Networking

Configure Network Adapter

Get Adapter Configuration

List Network Adapters

Services

Get Dependent Services

Get Service Dependencies

List Services

Number of Services

Resume Service

Start Service

Stop Service

Suspend Service

Shares

Create Share

Delete Share

List Shares

Utility

Add Computer

Create Local Group

Create Local User

Disable Local User

Enable Local User

Get Date and Time

Get Disk Drives

Get Hotfix

Get Logical Disks

Get Screen Saver

Get WMI Log Level

Remove Computer

Rename Computer

Report Desktop Settings

Report Firewall Configuration

Report Logical Disk Performance

Restart Computer

Set WMI Log Level

Shutdown Computer

State change

Graceful Service Restart

Restart Service

Restart Windows Server

Restart Windows Server with Wait

Start Automatic Services

subflows

Compare Application Pools

Compare IIS versions

Compare installed SW

Compare OS Info

Compare Registry Values

Filesystem Diagnostic After W2K

Filesystem Diagnostic W2K and Before

Local Delete

Local Zip

Remote Delete

Remote Zip

Select Delete or Zip

Utility

Analyze Process Counters

Analyze Process Info

Clean Logs
Clean User Profiles
Clean Windows Files
Get CPU Performance
Get Hard disk Performance
Get Memory Performance
Get Network Performance
Get Process Info
Reset Service Account
Service Status
Start Service
Stop Service
Windows Delete or Zip

Virtualization

Get All Snapshots
Get All Virtual Machines
Power Off Virtual Machine
Power On Virtual Machine
Revert to Snapshot
Suspend Virtual Machine
Take Virtual Machine Snapshot

Subflows

Change XenServer VM to Running
Get All ESX Virtual Machines

Get VM Identifier

What Type VM Host

VMware Server

Get Detailed Info of a Hosts Virtual Machines

Get Status of a Hosts Virtual Machines

Get Virtual Machine Info

State change

Start A Virtual Machine

Stop A Virtual Machine

Suspend A Virtual Machine

Utility

Register a Virtual Machine

Register and Unregister a Virtual Machine

Unregister a Virtual Machine

Community

Includes the following folders:

- [DevOps](#) – see page 39

DevOps

Jenkins

1.4x

Get Job Details

Run Job

Samples

Run Job with Details

Nexus

Download Artifact

List Available Repositories

Search Artifacts

Samples

Search and Download

How Do I Flows

How do I: Create a parallel flow

How do I: Format with HTML

How do I: Iterate through a list

How do I: Reference flow variables

How do I: Use a multi-instance step

Integrations

- [Amazon](#) – see page 39
- [BMC](#) – see page 50
- [Citrix XenServer](#) – see page 53
- [Computer Associates](#) – see page 55
- [F5](#) – see page 56
- [Hewlett-Packard](#) – see page 57
- [IBM](#) – see page 84
- [Linux KVM](#) – see page 85
- [Microsoft](#) – see page 88
- [OpenStack](#) – see page 98
- [Symantec Altiris](#) – see page 103
- [VMware](#) – see page 103

Amazon

Create Tags

Delete Tags

Enumerate Tags

EC2

EC2 Dashboard

Availability Zones and Regions

Enumerate Availability Zones

Enumerate Regions

Samples

Enumerate Availability Zones Sample

Elastic Block Store

Samples

Snapshots

Snapshot Lifecycle Sample

Volumes

Attach Volume Sample

Volume Lifecycle Sample

Snapshots

Create Shared Snapshot

Create Snapshot

Delete Snapshot

Describe Snapshots

Get Snapshot Details

Modify Snapshot Attribute

Reset Snapshot Attribute

Volumes

Attach Volume

Create Volume

Delete Volume

Describe Volumes

Detach Volume

Get Volume Details

Elastic IPs

Allocate New Elastic IP

Associate Elastic IP

Disassociate Elastic IP

Enumerate Elastic IPs

Release Elastic IP

Samples

Associate Elastic IP Sample

Disassociate Elastic IP Sample

Release Elastic IP Sample

Elastic Network Interfaces

Attach Network Interface

Create Network Interface

Delete Network Interface

Describe Network Interface Attribute

Detach Network Interface

Enumerate Network Interfaces

Get Network Interface Details

Modify Network Interface Attribute

Reset Network Interface Attribute

Samples

Network Interface Lifecycle

Wait for Network Interface Status

Images

Create Image

Enumerate Images

Get Image Details

Modify Image Attribute

Register Image

Remove Image

Reset Image Attribute

Samples

Get Image Details Sample

Modify Image Attribute Sample

Remove Image Sample

Reset Image Attribute Sample

Instances

Describe Instances

Get Instance Details

Get Instance Status Details

Get System Log

Modify Instance Attribute

Monitor Instance

Reset Instance Attribute

Restart Instance

Run Instances

Run Instances From Template

Start Instance

Stop Instance

Terminate Instance

Unmonitor Instance

Samples

Check Instance Status

Describe Instances Status
Get Instance Details Sample
Get System Log Sample
Modify Instance Attribute Sample
Modify Instance Capacity
Monitor Instance Sample
Restart Instance Sample
Stop Instance Sample
Unmonitor Instance Sample

Key Pairs

Allocate New Key Pair
Delete Key Pair
Enumerate Key Pairs
Import Key Pair

Samples

Key Pair Sample

Placement Groups

Create Placement Group
Delete Placement Group
Describe Placement Groups

Samples

Placement Group Sample

Security Groups

Allow Access To Security Group
Create Security Group
Delete Security Group
Describe Security Groups
Get Security Group Details
Revoke Access To Security Group

Samples

Security Group Sample

Spot Instances

Cancel Spot Instance Requests
Create Spot Datafeed Subscription
Delete Spot Datafeed Subscription
Describe Spot Datafeed Subscription
Describe Spot Instance Requests
Describe Spot Price History
Request Spot Instances

Virtual Machine Import

Cancel Conversion Task
Describe Conversion Tasks
Import Instance
Import Volume

VMware Windows Import

Check Import Status

Create Temp Dir

Export VM

Get TaskId by Description

Import Virtual Machine

Set Preconditions for Import VM

Windows

Bundle Windows Instance

Cancel Bundle Task

Enumerate Bundle Tasks

Get Bundle Task Details

Samples

Bundle Windows Instance Sample

IAM

Permissions

Delete User Policy

Get User Policy

List User Policies

Put User Policy

Samples

Create IAM Accounts

Create Administrator

Create IAM Accounts

Get Employees Info

Get Username And Email

Send mail

Security Credentials

Create Access Key

Delete Access Key

List Access Keys

Update Access Key

Users

Create User

Delete User

Get User

Update User

Load Balancing

Configure Health Check

Create Application Cookie Stickiness Policy

Create LB Cookie Stickiness Policy

Create Load Balancer

Delete Load Balancer

Delete Load Balancer Policy

Deregister Instances From Load Balancer

Describe Instance Health

Describe Load Balancers

Disable Availability Zones For Load Balancer

Enable Availability Zones For Load Balancer

Register Instances With Load Balancer

Set Load Balancer Policies Of Listener

Samples

Add Availability Zone to Load Balancer

Delete Load Balancer

Delete Load Balancer Policy

Disable Availability Zone from Load Balancer

Enable Application-Controlled Session Stickiness

Enable Duration-Based Session Stickiness

Set Up a Load Balancer

S3

Buckets

Create Bucket

Delete Bucket

Enumerate Buckets

Get Bucket Content

Is Bucket Name Available

Objects

Abort Multipart Upload

Complete Multipart Upload

Delete Object

Initiate Multipart Upload

List Parts

Multipart File Upload

Single Part File Upload

Upload File

Upload Folder

Upload Part

Utilities

Add Prefix to Keys

Compute Signature

Create Query

Create Table

Encode String

Get Common Prefixes

Get Element Value

Get Element Values

Get GMT Date and Time

Process Headers

Security Token Service

Get Federation Token

Get Session Token

VPC

VPC Dashboard

Customer Gateways

Create Customer Gateway

Delete Customer Gateway

Describe Customer Gateways

DHCP Options

Associate Dhcp Options

Create Dhcp Options

Delete Dhcp Options

Describe Dhcp Options

Samples

VPC Workflow

Subnets

Create Subnet

Delete Subnet

Describe Subnets

Virtual Private Cloud

Create VPC

Delete VPC

Describe VPCs

VPN Connection

Create VPN Connection

Delete VPN Connection

Describe VPN Connections

VPN Gateways

Attach VPN Gateway

Create VPN Gateway

Delete VPN Gateway

Describe VPN Gateways

Detach VPN Gateway

BMC

Atrium

Install Web Service

Ops

Classes

Get Class

List Classes

Instances

Create Instance

Get Instances

Jobs

Get Job Run

List Job Runs

Samples

Get Class

Get Class Instances

Instantiate Class

List Classes

List Job Runs

Patrol

Acknowledge Event

Close Event

Subflows and Operations

Acknowledge Event

Close Event

Event Query

Event Report

Get Var

List Var

Set Var

Trigger Event

Remedy

V6

Close Change Ticket

Close HelpDesk Ticket

Comment Change Ticket

Comment HelpDesk Ticket

Get Change Ticket Info

Get HelpDesk Ticket Info

Set Change Ticket Info

Set HelpDesk Ticket Info

Ops

Create Change Ticket

Create HelpDesk Ticket

Get Change Ticket Info

Get HelpDesk Ticket Info

Process Form Inputs

Search For Change Ticket

Set Change Ticket Info

Set HelpDesk Ticket Info

V7

Change Management

Add Comment

Approve Phase Change

Complete Change Ticket

Convert To Remedy Date

Create From Change

Fully Approve Change

Ops

Create Change Ticket

Get int Approval Status

Get Next Approval Status

Modify Change Ticket

Query Change Ticket

Query List Change Tickets

Samples

Create Change Ticket Sample

Create From Change Ticket Sample

Query List Change Tickets

Incident Management

Create Incident

Modify Incident

Query Incident

Query List Incidents

Samples

Create Incident Sample

Query List Incidents Sample

Citrix XenServer

Host

Find Hosts

Network

Physical Network Interfaces

Find PIFs

Virtual Network Interfaces

Create VIF

Destroy VIF

Find VIF

Modify VIF

Virtual Networks

Create Virtual Network

Destroy Virtual Network

Find Virtual Networks

Samples

Check for Task Success

Create VM from Configured Template

Create VM from Unconfigured Template

Destroy VM and Disks

Find List of VMs

Get VIF from deviceID and VM

Setup Disk or CD for VM

Setup Network devices for VM

Storage

Storage Repositories

Find SR

Virtual Block Devices

Create VBD

Destroy ViBD

Eject VBD

Find VBD

Hot Plug VBD

Hot Unplug VBD

Insert VBD

Virtual Disk Images

Create VDI

Destroy VDI

Find VDI

Modify VDI

Task

Cancel Task

Find Tasks

VM

Clone VM

Copy VM

Create VM Snapshot

Destroy VM

Edit VM

Find VMs

Install VM

Migrate VM

Guest

Pause VM

Resume VM

Suspend VM

Unpause VM

Power

Reboot VM

Shutdown VM

Start VM

Computer Associates

Unicenter Network and Systems Management

Get All Console Nodes

Get Console Count

Put Console Record

Unicenter Service Desk

Add Comment

Close Ticket

Create Ticket

Get Object Values

Get Request Handles

Ops

Close Ticket

Create Activity Log

Create Ticket

Do Query

Free List Handles

Get List Values

Get Object Values

Login Service

Logout

ServiceDesk Login

ServiceDesk Logout

F5

Change Node Status

Change Pool Member

Check Enabled Threshold

Generate Statistics Selection List

Get Interfaces Info

Get Member Info

Get Node Address Info

Get Pool Info

Get Pools With Node

Get Self IP Info

Get Virtual Server Stats

Is Node Enabled

Safely Disable Node

Hewlett-Packard

Application Lifecycle Management

Basic

ALM REST Delete

ALM REST Get

ALM REST Post

ALM REST Put

Entity Management

Check In Entity

Check Out Entity

Create Entity

Delete Entity

Describe Entity Fields

Get Entity Fields

Get Entity Lists

Get Entity Versions
Lock Entity
Query Entities Collection
Read Entity
Undo Entity Checkout
Unlock Entity
Update Entity

Session Management

Close Session
Create Session
Extend Session
Get Lightweight SSO Token

Defects

Create Defect
Create Defect Link
Delete Defect
Delete Defect Link
Query Defects
Read Defect
Read Defect Links
Update Defect
Update Defect Link

Entities

Create Entity

Delete Entity

Import Entities from Excel

Query Entities

Read Entity

Update Entity

Requirements

Create Requirement

Import Requirements from Excel

Test Lab

Runs

Create Run

Delete Run

Read Run

Update Run

Test Instances

Add Test Instance To Test Set

Delete Test Instance From Test Set

Update Test Instance

Test Sets

Create Test Set

Create Test Set Folder

Delete Test Set Folder

Query Test Sets

Read Test Set

Read Test Set Folder

Update Test Set

Update Test Set Folder

Test Plan

Create Test

Create Test Configuration

Create Test Folder

Delete Test

Delete Test Configuration

Delete Test Folder

Import Tests from Excel

Query Test Folders

Query Tests

Read Test

Read Test Configuration

Read Test Folder

Update Test

Update Test Configuration

Update Test Folder

Utilities

Add to Name Value Lists

Append Field Value To Fields List

Create Defect Link Xml

Create Entity Xml

Create Entity Xml List
Determine Content Type
Encode Parameter
Get Cookie Header
Get Field Inputs
Get Label By Name
Get Name By Label
Get Test Set Elements Number
Get Used Session
Process Defect Links Xml
Process Entity Xml
Process Search Response
Select Http Client Error
Translate Fields Clause
Translate Restrictions

ArcSight

Retrieve ArcSight Information

Samples

Get Connector Commands
Get Connector Details
List Connectors

Continuous Delivery Automation

Application

Get Application Recipes

Get Application Versions

Get Applications

Build

Get Deployable Software Artifact Bundles

Get Software Artifact Details for Deployed Application

Domain

Get All Domains

Get Working Domain

Set Working Domain

Infrastructure

Server

Create Server

Delete All Servers

Delete Server

Get Server Details

Get Servers List

Update Server

Server Group

Add Servers to Server Group

Create Server Group

Delete All Server Groups

Delete Server Group

Get Server Group Details

Get Server Groups List

Get Servers in Server Group

Remove Servers from Server Group

Update Server Group

Template

Add Server Groups to Template

Create Template

Delete All Templates

Delete Template

Get Server Groups in Template

Get Template Details

Get Templates List

Remove Server Groups from Template

Update Template

Platform

Deprovision Platform

Get Platform Models

Get Platform Stored Parameters

Get Provisioned Platforms

Get Provisioning Progress

Provision Platform

Topology

Deploy Application Topology to Platform

Execute Operation on Deployed Application

Get Application Topologies

Get Application Topology Stored Parameters

Get Deployed Application Topologies

Get Deployment Progress

Start Deployed Application

Stop Deployed Application

Undeploy Application Topology

Fortify

Samples

Get Performance Indicator From Last SCA Scan

Software Security Center

Get Performance Indicator

Get Performance Indicator Id

Get Performance Indicators

Get Project Version Id

Get Variable

Get Variables

Static Code Analyzer

Run SCA Scan

Run SCA Scan And Upload FPR File

Upload FPR File

Live Network

Download and Import

Enable Stream

Get Configuration

Get Known Platforms

Get Version

Is Stream Enabled

List Streams

Set Configuration Credentials

Samples

Configure HP Live

Enable Streams

Stream Summary Report

Load Runner

Run VuGen Script

Network Automation

6.x

Ops

Construct Command Line Parameters

Filter Inputs

Run Command

Send NAS Command

Configuration and Snapshots

Deploy Configuration

Get Config

Get Device Snapshot IDs

Take Snapshot

Devices

Add Device

List Devices

Remove Device

Tasks

Approve or Reject Task

Get Task Info

List Tasks

Remove Task

Stop Task

Samples

Bulk Device Update With Rollback

Check Task Status

Rollback to Last Snapshot

Remedy

Ticket Creation and Change Approval

Update Task Approval Status

7.x and 9.x

Commands

List Scripts

Run Command Script

Configurations

Deploy Configuration

Diff Configurations

Get Configurations By IP
Show Configuration Details
Take Snapshot

Devices

Add Device By IP
Get ACL
Get Device ACLs
Get Device Diagnostics
Get Device Family
Get Devices
List Device Family
List Diagnostic Runs
Remove Device By IP

Samples

Bulk Device Update With Rollback
Check Task Status
Config Change with Rollback
Diagnose Devices
Rollback to Last Snapshot

Ticketing

Ticket Creation and Change Approval
Update Task Approval Status

Tasks

Approve Task

Diagnose Device

Get Task Info

List Tasks

Modify Task

Remove Task

Stop Task

Update Task Ticket

Network Node Manager

7.5

Add Event

Get All Events

Get All Nodes

Get All Object Fields

Get Objects by Field

8.1x

Incidents

Add Incident

Delete Incident

Enumerate Incidents by Lifecycle

Enumerate Incidents by Severity

Get Incident

Update Lifecycle Status

Update Priority

Nodes

Delete Node

Get Node by Name

Get Node by UUID

Get Node Conclusions

Update Node Management Mode

Samples

Node Sample

Simple Incident Sample

9.0

Incidents

AddIncident

DeleteIncidentByID

DeleteIncidentByUUID

GetAssignedToPrincipals

GetChildIncidents

GetCustomAttribute

GetCustomAttributes

GetIncidentByID

GetIncidentByUUID

GetIncidents

SetCustomAttribute

UpdateAssignedTo

UpdateLifecycleState

UpdateNotes

UpdatePriority

NodeGroups

GetNodeGroupByID

GetNodeGroupByUUID

GetNodeGroupMemberIDs

GetNodeGroups

GetNodeGroupsByNodeID

Nodes

DeleteByID

DeleteByUUID

GetNodeByID

GetNodeByUUID

GetNodes

UpdateManagementMode

UpdateNotes

Samples

Create Incident

Delete Incidents

Is Node in NodeGroup

Onboard Administrator

Network

Add OA Address IPv6
Add OA DNS IPv4
Add OA DNS IPv6
Add SNMP Trapreceiver
Clear NTP
Clear SSH Key
Configure Alert Mail
Configure DHCPv6
Configure Enclosure IP Mode
Configure HTTPS
Configure IPv6
Configure NTP
Configure Router Advertisements
Configure SNMP
Configure Telnet
Configure Trusted Host
Configure XML Reply
Get Network
Get SNMP
Get SSH Encryption
Get SSH Fingerprint
Get SSH Key
Remove OA Address IPv6
Remove OA DNS IPv4

Remove OA DNS IPv6
Remove SNMP Trapreceiver
Remove Trusted Host
Set IPCONFIG DHCP
Set IPCONFIG Static
Set OA Gateway
Set SSH Encryption
Set SSH Key
Set Trusted Host
Test Alert Mail
Test SNMP

OA

Clear OA Syslog
Configure GUI Login Detail
Configure Link Loss Failover (LLF)
Get Config
Get Date
Get OA Information
Get OA Syslog
Get Syslog History
Get VCmode
Set Date
Set OA Name
Set OA UID LED

Set Time Zone

Power

Get Power

Get Power Cap

Get Power Cap Excluded Bays

Get Power Summary

Get Power Supply

Set PDU Type

Set Power Cap

Set Power Cap Bays to Exclude

Set Power Limit

Set Power Mode

Set Power Savings

Rack and Enclosure

Get Enclosure Info

Get Enclosure Status

Get Enclosure Temp

Get FRU

Get Rack Name

Get Topology

Set Asset Tag

Set Enclosure Name

Set Enclosure UID LED

Set Part Number

Set Rack Name

Set Serial Number

User

Add User

Delete User

Get Password Settings

Get Session Timeout

Get User

Get Users

Modify User

Set Password Settings

Set Session Timeout

Operations Manager

Add Annotation

Close Incident

Create Incident

Delete Annotation

Delete Custom Attribute

Disown Incident

Enumerate Incidents

Get Annotations

Get Incident

Own Incident

Reopen Incident

Set Custom Attribute

Update Annotation

Update Incident

Samples

Annotation Sample

Custom Attributes Sample

Incident Lifecycle Sample.

Retrieve Incidents Sample

Operations Manager i

Add Annotation

Add Custom Attribute

Add Symptom

Delete Annotation

Delete Custom Attribute

Delete Symptom

Get Annotations

Get Auto Action

Get Custom Attributes

Get Event

Get Symptoms

Get User Action

Launch Auto Action

Launch User Action

Stop Auto Action

Stop User Action

Update Annotation

Update Custom Attribute

Update Event

Samples

Custom Attributes Sample

Operations Orchestration

Acquire Lock

Dynamically Launch Flow

Flow Run Counter

Flow Run Summary Report

Generate Documentation

Generate Documentation with Hidden Folders

Generate Run URL

Launch Flow

Release Lock

Wait For Lock

Cluster

Get Cluster Servers

Get Server Status

Samples

Get Cluster Servers

Cross Run Data Persistence

Get Stored Flow Variable

Store Flow Variable

Flow Execution

Get Run Status

Get Status For Runs

List Flow Run History

Samples

Filter Flow Runs by Status

Get Integration Flows Run History

Get Last Run Status

Get Last Step

Repository

Check In

Delete Path

Get All Children Named

Get Children of Path

Get Folder Flows

Get Last Modified By

Get References to Path

Repository Sync

Set Selection List

Set System Account

Set System Property

Store System Account in Flow Variable

Samples

Publish Staging to Production Cluster

Publish To Central

Set Selection List from Database

Single Pass Delete Unused Content

Samples

Basic Schedule Sample

Data Persistence Sample

Data Persistence Table Sample

Generate and Send Documentation

Get New Email Data Persistence Sample

Run Flow From E-Mail

Run Flows From E-Mails

Scheduling

Build Input Lists From Context

Delete Flow Schedule

Get Flow Schedules

Get Schedule Details

Schedule Flow

Schedule Flow on OO up to 9.02

Peregrine Service Center

Close Change

Close Incident

Get Change Info

Get Incident Info

Ops

Add Change

Add Incident

Close Change

Get Change Details

Get Change ids

Get Incident Details

Get Incident ids

Get Problem Details

Process Form Inputs

Update Change

Update Incident

Update Problem

Samples

Create Change

Create Incident

Project and Portfolio Manager

Add Note To Request

Create Request

Delete Requests

Execute Workflow Transition

Get Request

Update Request Fields

Default Bug Tickets

Create Request

Update Request

Default Enhancement Ticket

Create Request

Update Request

Proliant iLO

Create User

Delete User

Eject Virtual Media

Execute RIBCL Script

Get Host Data

Get Power Cap Values

Host Power Status

Insert Virtual Media

Modify User

Power On Host

Restart Host

Restart iLO Processor

Set Auto Power On

Set Power Cap

Set Power Saver Mode

Update Firmware

Execute RIBCL Script Samples

Activate iLO License

Deactivate iLO License

Get Auto Power On

Get iLO Firmware Version

Get SNMP IM Settings

Modify SNMP IM Settings

Set Unit ID Light State

Service Automation Visualizer

SAV URL Generator

SiteScope

7.0

Acknowledge

Refresh

Unacknowledge

9.x and 10.x and 11.00

Delete Monitor

Delete Monitor Group

Delete Remote Server

Deploy Template

Enable Monitor

Enable Monitor Group

Get Monitors Deployed At

Is Monitor Group Empty

Redeploy Template

Run Monitor

Universal CMDB

Add Object

Add Relationship

Delete Object

Delete Relation

Get Filtered Object List by Type

Get Neighboring Objects

Get Object Attributes by Id

Get Object List By Host Name

Get Object List by Type

Get Query Name of View

Get Server Status

Get Topology Map by Query Name

Get Topology Map by Query Name with Parameter

Get Topology Map by View Name

Is Object Related To

Modify Object Attribute(s)

Validate IP in UCMDB

Discovery

Get Context-based Discovery Status

Stop Context-based Discovery

Trigger Context-based Discovery

Virtual Connect Enterprise Manager

Bays and Enclosures

Check Power Status of Bay

Find Bay

Find Enclosure by Name

Find Enclosure by Serial Number

Power Bay Off

Power Bay On

Failover

Failover by Enclosure Name and Bay Number

Failover by Server IP Address

Failover by Server Name

Job

Job State

Maintenance

Cancel Maintenance Mode

Complete Maintenance Mode

Enable Maintenance Mode

Profiles

Add FC Connection to Profile

Add Network Connection to Profile

Assign Profile by Id

Assign Profile by Name

Delete FC Connection from Profile

Delete Network Connection from Profile

Find Profile by Id

Find Profile by Name

List Server Profiles

Unassign Profile by Id

Unassign Profile by Name

Update FC Connection in Profile

Update Network Connection in Profile

Samples

Add SAN Fabric and FC Connection

Assign Profile to a Bay

VC Domains and Domain Groups

Find VC Domain

Find VC Domain Group

List VC Domain Groups

List VC Domains

IBM

Netcool

Acknowledge

Add Journal Entry

Get Event Info

Get Events

Set Severity

Unacknowledge

Tivoli

Acknowledge Event

Change Event Severity

Close Event

Create Event

Ops

Acknowledge Event

Change Event Severity

Close Event

Create Event

List Events

Samples

Ticket Manipulation Sample

Linux KVM

Host

Get Host Info

List Inactive VMs

List Running VMs

Hypervisor

Get Hypervisor Info

Interface

Activate Interface

Deactivate Interface

Define Ethernet Interface
Define Interface From XML
Get Interface Info
List Interfaces
Undefine Interface

Network

Create Network From XML
Create Simple Network
Get Network Info
Is Network Active
List Networks
Start Network
Stop Network

Samples

Migrate All Active VMs From A Host
Shutdown and Undefine VM

Storage Pool

Create Storage Pool From XML
Get Storage Pool Info
List Storage Pools

Storage Volume

Create Storage Volume From XML
Delete Storage Volume
Get Storage Volume Info

List Storage Volumes

Virtual Machine

Attach Device From XML

Attach Disk Device

Attach Disk Image File

Attach Network

Change Active VM Max MemSize

Change Active VM Target MemSize

Change Active VM Vcpus Count

Configure VM Autostart

Configure VM Parameters For Restart

Create VM

Create VM From XML

Define VM

Define VM From XML

Detach Device by XML

Detach Disk

Detach Network

Get Network Connection Info

Get VM Info

List Disks

List Network Connections

Migrate VM

Reboot VM

Resume VM
Shutdown VM
Start VM
Suspend VM
Undefine VM

Microsoft

Hyper-V

Jobs

Get Job State
List Jobs
Terminate Job

Samples

Clone Virtual Machine
Execute Job

Server

Host Enumerate Virtual Machines
List Long Running Virtual Machines
List Old Virtual Machines

Snapshots

Apply Snapshot
Create Snapshot
Delete Snapshot
Delete Snapshot Tree
Enumerate Snapshots

Export Snapshot

Import Snapshot

Rename Snapshot

Virtual Hard Disk Operations

Add SCSI Controller

Attach Virtual Hard Disk to SCSI Controller

Attach Virtual Hard Disk to Virtual Machine

Compact Virtual Hard Disk

Convert Virtual Hard Disk

Create Differencing Virtual Hard Disk

Create Virtual Hard Disk

Delete SCSI Controller

Detach Virtual Hard Disk from SCSI Controller

Expand Virtual Hard Disk

Get Disks Attached to SCSI Controller

Get SCSI Controllers

Get Virtual Hard Disk Information

Merge Differencing Virtual Hard Disk

Reconnect Differencing Virtual Hard Disk

Remove Device From IDE Controller

Validate Virtual Hard Disk

Virtual Machine Actions

Create Blank Virtual Machine

Delete Virtual Machine
Export Virtual Machine
Get Virtual Machine State
Import Virtual Machine
Pause Virtual Machine
Rename Virtual Machine
Reset Virtual Machine
Save Virtual Machine
Shutdown Virtual Machine
Start Virtual Machine
Stop Virtual Machine

Virtual Machine Configuration

Change Boot Order
Get Number Of Processors For Virtual Machine
Get Virtual Machine Memory
Get Virtual Machine Operating System Name
Get Virtual Machine Processor Usage
Resource Control
Set Memory Size
Set Number Of Processors
Set Processor Compatibility

Virtual Networks

Attach Legacy NIC to Virtual Machine
Attach NIC to Virtual Machine

Attach VM To Network
Change MAC for Legacy NIC
Change MAC for NIC
Create Internal Network
Create Private Network
Delete Network
Dettach Virtual Machine From Network
Get Legacy NICs for Virtual Machine
Get NICs for VM
List Virtual Machines Attached To Network
Remove Legacy NIC by ID
Remove Legacy NIC by MAC
Remove NIC by ID
Remove NIC by MAC

Microsoft Operations Manager

Change Resolution State
Get Alert Detail
Get Resolution State By Alert ID
Get Resolution States
Is Computer In Maintenance Mode
Put Computer In Maintenance Mode
Remove Computer From Maintenance Mode
Update Ticket ID

Samples

Reboot Windows Server with MOM

Opalis

Get All Policies

Get Policy Details

Get Policy Request Details

Get Policy Requests

Start Policy

Stop All Policy Requests

Stop All Policy Requests For Policy

Stop Policy Request

Samples

Get All Policy Requests

Get Policy Info

Get Policy Requests Subflow

System Center Configuration Manager

Client

Get Client Advertisement Status

Request Machine Policy

Trigger Hardware Inventory Schedule

Trigger Software Inventory Schedule

Collections

Add Resource to Static Collection

Create Dynamic Collection

Create Static Collection

Delete Collection

Get Collection Names and Ids

Get Resources in Collection

Is Resource in Collection

Remove Resource from Static Collection

Request Refresh Collection

Update Collection Schedule

Desired Configuration

Assign Baseline to Collection

Delete Baseline Assignment

Get Baseline Ids

OS Deployment

Advertise Task Sequence to Collection

Import New System

Samples

Prepare for OS Deployment

Prepare for Software Distribution

Site Management

Check Component Status

Check Site Status

Software Distribution

Assign Distribution Point to Package

Create Advertisement

Create Package

Create Program
Delete Advertisement
Delete Distribution Point from Package
Delete Package
Delete Program
Update Advertisement
Update Package
Update Program

Software Update

Add Updates to Deployment Package
Create Deployment
Create Deployment Package
Delete Deployment
Delete Deployment Package
Get Content Id By Software Update CI Id
Get Software Update CI Ids
Update Deployment
Update Deployment Package

System Center Operations Manager 2007

Change Resolution State
Get Alert Detail
Get Resolution State By Alert Id
Get Resolution States

Is Computer In Maintenance Mode

Put Computer In Maintenance Mode

Remove Computer From Maintenance Mode

Update Ticket

Samples

Maintenance Mode

Resolution State

Update Ticket

System Center Virtual Machine Manager

Run SCVMM Commands

Hardware Profile

Get CPU Type

Get Hardware Profile

Get Operating System

New Hardware Profile

Remove Hardware Profile

Set Hardware Profile

Jobs

Get Job

Get Step

Restart Job

Stop Job

Templates

Get Template

New Template

Remove Template

Set Template

Virtual Disk Drive

Compress Virtual Disk Drive

Convert Virtual Disk Drive

Expand Virtual Disk Drive

Get Virtual Disk Drive

New Virtual Disk Drive

Remove Virtual Disk Drive

Set Virtual Disk Drive

Virtual DVD Drive

Get Virtual DVD Drive

New Virtual DVD Drive

Remove Virtual DVD Drive

Set Virtual DVD Drive

Virtual Hard Disk

Get Virtual Hard Disk

Move Virtual Hard Disk

Remove Virtual Hard Disk

Set Virtual Hard Disk

Virtual Machine

Disable Virtual Machine Undo Disk

Discard Virtual Machine State

Get Virtual Machine
Move Virtual Machine
New Virtual Machine
Refresh Virtual Machine
Register Virtual Machine
Remove Virtual Machine
Repair Virtual Machine
Resume Virtual Machine
Save Virtual Machine State
Set Virtual Machine
Shut Down Virtual Machine
Start Virtual Machine
Stop Virtual Machine
Store Virtual Machine
Suspend Virtual Machine

Virtual Network

Get Virtual Network
New Virtual Network
Remove Virtual Network
Set Virtual Network

Virtual Network Adapter

Get Virtual Network Adapter
New Virtual Network Adapter
Remove Virtual Network Adapter

Set Virtual Network Adapter

Virtual SCSI Adapter

Get Virtual SCSI Adapter

New Virtual SCSI Adapter

Remove Virtual SCSI Adapter

OpenStack

Get Auth Token

Get Unscoped Auth Token

OpenStack REST Delete

OpenStack REST Get

OpenStack REST Get to File

OpenStack REST Head

OpenStack REST Post

OpenStack REST Put

Compute

OpenStack Dashboard

Flavors

Get Flavor Details

Get Flavors Detail List

Get Flavors List

Images

Delete Image

Get Image Details

Get Images Detail List

Get Images List

Key Pairs

Create Key Pair

Delete Key Pair

Get Key Pairs List

Metadata

Delete Image Metadata Item

Delete Server Metadata Item

Get Image Metadata Item

Get Image Metadata List

Get Server Metadata Item

Get Server Metadata List

Set Image Metadata

Set Image Metadata Item

Set Server Metadata

Set Server Metadata Item

Update Image Metadata

Update Server Metadata

Samples

Create Keypair and Save Private Key

Create Web Server Rule Group

Delete All Servers in a Region

OpenStack Dashboard Multitenant

OpenStack Dashboard Report

subflows

Add Rules to a Group

Security Groups

Create Security Group

Create Security Group Rule

Delete Security Group

Delete Security Group Rule

Get Security Group Details

Get Security Group List

Server Actions

Change Server Admin Password

Confirm Resize Server

Create Image

Reboot Server Hard

Reboot Server Soft

Rebuild Server

Resize Server

Revert Resize Server

Server Addresses

Add Floating IP Address to a Server

Create Floating IP Address

Delete Floating IP Address

Get Addresses List

Get Addresses List by Network

Get Floating IP Address Details

Get Floating IP Address List

Remove Floating IP Address from a Server

Servers

Create Server

Delete Server

Get Server Details

Get Servers Detail List

Get Servers List

Update Server IPv4 Access Address

Update Server IPv6 Access Address

Update Server Name

Identity Service

Get Tenant List

Image Service

Add a Member to an Image

Add a Member to an Image with Can Share

Download VM Image

Get Image Memberships

Get Public VM Images Detail List

Get Public VM Images List

Get Shared Images

Get VM Image Detailed Metadata

Remove a Member from an Image

Replace a Membership List for an Image

Update VM Image

Upload VM Image

Samples

Upload an Image

Object Storage

Samples

Delete Container with Contents

Get File List as JSON Array

Push Filesystem to the Cloud

Upload Storage Object with MD5 Check

Storage Container

Create Container

Delete Container

Get Container List

Get Container Metadata

Get Container Object List

Storage Object

Copy Storage Object

Create or Update Storage Object

Delete Storage Object

Get Storage Object Metadata

Retrieve Storage Object

Update Storage Object Metadata

Utilities

Add to Name Value Lists

Select Http Client Error

Symantec Altiris

Delete Computer

Delete Scheduled Job

Get Computer Details

Get Computer ID

Get Computer Schedules

Get Computers From Group

Get Group ID

Get Job IDs

Move Computer to Group

Register Application

Schedule Job

Samples

Group Sample

Register Application

Scheduling Sample

VMware

VMware Server

Aggregate Virtual Machine Data
Get Virtual Machine Display Name
Get Virtual Machine IP Address
Get Virtual Machine Memory
Get Virtual Machine Operating System Name
Get Virtual Machine State
Host Enumerate Virtual Machines
Host Register Virtual Machine
Host Unregister Virtual Machine
Reset Virtual Machine
Start Virtual Machine
Stop Virtual Machine
Suspend Virtual Machine
VMware Command

VMware vCenter Orchestrator

Manage Workflows

CancelWorkflow
ExecuteWorkflow
LaunchWorkflow
RetrieveResults

Obtain Information

FindObjectById
FindObjectsByName

FindObjectsByProperty

GetWorkflowDetails

Ping

VMware vCloud

Catalogs

Create Catalog

Create Template From vApp

Delete Catalog

Delete Media Image

Delete vApp Template

Deploy vApp From Template

Download vApp Template as OVF

Get Catalogs

Get Media

Get vApp Templates

Publish Catalog

Unpublish Catalog

Upload Media Image to Catalog

Upload OVF as vApp Template

Organizations

Create Organization

Delete Organization

Disable Organization

Enable Organization

Get Organization Tasks

Get Organizations

Modify Organization

Networks

Create Direct Organization Network

Delete Organization Network

Get External Networks

Get Organization Networks

Organizations vDCs

Create Organization vDC

Delete Organization vDC

Disable Organization vDC

Enable Organization vDC

Get Organization vDCs

Networks

Create Direct Organization vDC Network

Delete Organization vDC Network

Get Organization vDC Networks

Samples

Guided Import VM as vApp

Reset Leases For All Running vApps

subflows

JSON Array to delimited list

vApps

Delete vApp

Get vApp Lease Settings

Get vApp State

Get vApps

Recompose vApp

Reset vApp

Set vApp Lease Settings

Start vApp

Stop vApp

Suspend vApp

VMs

Edit VM Network

Get vApp VMs

Get VM Details

Get VM Disk Details

Get VM NIC Details

Get VM State

Power Off VM

Power On VM

Set VM Computer Name

Set VM CPU Count

Set VM Memory Size

vCenters

Get vCenters

Get Virtual Machines

Import Virtual Machine as vApp

Import Virtual Machine as vApp Template

VMware Virtual Infrastructure and vSphere

Cluster

Get Hosts in Cluster

Get VM Port Groups from Cluster

Get VMs in Cluster

Move Host Into Cluster

Remove Host from Cluster

Datastore

Copy DS Path

Create DS Directory

Datastore Enter Maintenance Mode

Datastore Exit Maintenance Mode

Delete DS Path

Download DS Directory

Download DS Directory Multi Thread

Download DS File

FS Get Children Enhanced

Generate DS Url

Get Datastore Mount Details

Get Datastore Provisioned Space

Get DS Children

Is DS Directory

Move DS Path

Rename Datastore

Upload DS Directory

Upload DS Directory Multi Thread

Upload DS File

Datastore Cluster

Get Datastore Clusters

Rename Datastore Cluster

Guest

Apply Guest Customization Spec To VM

CustomizeLinuxGuest

CustomizeWindowsGuest

Export Guest Customization Spec

Get Guest Info

Import Guest Customization Spec

Mount Tools

Reboot Guest

Shutdown Guest

Standby Guest

Upgrade Tools

VM Tools Running Status

VM Tools Version Status

Host

Add Host

Disconnect Host

Get VM Port Groups from Host

Reconnect Host

Remove Host

Set Maintenance Mode

Storage

Attach SCSI Lun

Create NAS Datastore

Create VMFS Datastore

Detach SCSI Lun

Get Available Luns on Host for VMFS

Get Host Lun Details

Get Luns on Host

Mount VMFS Datastore on Host

Remove Datastore from Host

Rescan Host HBAs

Unmount VMFS Datastore from Host

Network

Add Distributed Port Group

Add Host to vNetwork Distributed Switch

Add Port Group

Add Virtual NIC

Add Virtual Switch

Add vNetwork Distributed Switch
Delete Distributed Port Group
Delete Network Entity
Delete vNetwork Distributed Switch
Edit Physical NIC Link
Edit Virtual NIC
Remove Host from vNetwork Distributed Switch

Power

Get Power State
Restart
Set Power State

Resource Pools

Create Resource Pool
Destroy Resource Pool
Get Child Resource Pools
Get Child VMs in Resource Pool
Get Resource Pool Details
Move Resource Pool Into Resource Pool
Set Resource Pool Resource Allocation

Samples

Get Freespace On Datastores
Get List Of Powered On VMs
Get VMs Powered On Longer Than By Event
Get VMs Powered On Longer Than By Task

Guided Create VMFS Datastore

Guided Search

Host Maintenance With No Downtime

Quick Migrate

Subflows

Get Powered On VM List As IDs

JSON Array to delimited list

Lun Display

Snapshots

Consolidate Snapshot Redo Logs

Create Snapshot

Delete Snapshot

Get Snapshot

Revert To Snapshot

Snapshot Consolidation Needed

Tasks

Cancel Task

Get All Running Tasks

Get Task State

Utilities

Advanced Search

Destroy Object

Get Latest Event

Get Latest Task

Get OS Descriptors

List Custom Fields

Simple Search

Virtual Apps

Export vApp as OVF

Get vApp

Get VMs in vApp

Import OVF

Parse OVF

Power Off vApp

Power On vApp

Shutdown vApp

Suspend vApp

samples

Import OVF to Cluster

Import OVF to Host

subflows

Prompt For Each Key

Prompt For Each Key With Selection List

Virtual Machines

Clone Virtual Machine

Clone Virtual Machine to Template

Create Linked VM

Create Virtual Machine

Create VM Folder

Delete VM Folder

Deploy Virtual Machine from Template

Export VM as OVF

Get Virtual Machine

Mark VM As Template

Migrate Virtual Machine

Move Virtual Machine

Promote VM Disk

Register Virtual Machine

Register Virtual Machine Template

Relocate Virtual Machine

Rename Virtual Machine

Rename VM Folder

SetVMAnnotation

Unregister Virtual Machine

VM is Template

Configuration

Add Existing Disk To VM

Add Floppy Drive To VM

Add New Disk To VM

Add NIC To VM

Add Optical Drive To VM

Configure NIC on VM

Edit Floppy Drive on VM

Edit Optical Drive on VM

Edit Video Card

Edit VM Boot Options

Edit VM CPUID Masks

Edit VM Power Options

Edit VM Settings

Edit VM Tools Options

EditSCSIController

Extend Disk on VM

Get All Hard Disks for VM

Get Details of Disk on VM

Get Details of NIC on VM

Get Details of SCSI Controller on VM

Get Device Numbers For Type

Get VM CPU And Memory Resources

Get VM CPU Count

Get VM Memory Size

Remove Disk From VM

Remove Floppy Drive From VM

Remove NIC From VM

Remove Optical Drive From VM

Set VM Cores per Socket

Set VM CPU Count

Set VM Memory Size

Set VM Resource Allocation

samples

Clone Virtual Machine

Create Virtual Machine

ITIL

Includes the following folders:

- [Change Management](#) – see page 117
- [Incident Management](#) – see page 117

Change Management

Network

Block or Unblock NAS Task

Compare Device ACLs

Run Diagnostic

subflows

Perform Block

Restore Original Date

Incident Management

Network

Check Connectivity

Check NAS For Changes

Servers

Check Connectivity

Clean Windows Files

Server Health Check

Verify Server Down

subFlows

Verify Server Down Cross Run Lookup

My Ops Flows

Operations

Includes the following folders:

- [Active Directory](#) – see page 120
- [Ant](#) – see page 123
- [Apache](#) – see page 123
- [Application Servers](#) – see page 124
- [Backup Exec](#) – see page 127
- [Databases](#) – see page 128
- [Email](#) – see page 129
- [Exchange](#) – see page 130
- [File System](#) – see page 135
- [Groovy](#) – see page 139
- [HTTP Client](#) – see page 139
- [IIS](#) – see page 140
- [JVM](#) – see page 141
- [LDAP](#) – see page 141
- [MS Cluster](#) – see page 142
- [Network](#)– see page 145
- [Operating Systems](#) – see page 149
- [PowerShell](#) – see page 162
- [Printing](#)– see page 164
- [Remote Command Execution](#) – see page 166
- [Remote File Transfer](#) – see page 167
- [Sharepoint](#)– see page 169
- [SNMP](#)– see page 169
- [TN3270](#)– see page 170
- [Wizards](#)– see page 171
- [WMI](#) – see page 171
- [WS-Management](#) – see page 172

Diagnosed

Error

No Action Taken

Resolved

Active Directory

.NET

AD Time Stamp To Date

Convert RID to DN

Copy Root Hints

Date To AD Time Stamp

Event 5509

Get Configuration DN

Get Domain DN

Get Servers

Get Workstations

Query for PDC Emulator

Restartable DNS Events

Computers

Create Computer Account

Delete Computer Account

Disable Computer Account

Enable Computer Account

Get Computer Account OU

Is Computer Account Enabled

Move Computer Account to OU

Reset Computer Account

Groups

Add User To Group

Create Group

Delete Group

Find a Group In Parent Groups

Get Groups

Get Inactive Users By Group

Is User Directly in Group

Is User in Group

Remove User from Group

Samples

Check User Credentials

Reset User Account Password

User Group Sample

Users

Authenticate User

Create User

Create User From Template

Delete User

Disable User

Enable User

Generate Random Password

Get Inactive Users

Get Last Login Time
Get Users
Is User Enabled
Reset Password
Set User Account
Set User Address
Set User Dialin
Set User Environment
Set User General Information
Set User Organization
Set User Profile
Set User Remote Control
Set User Sessions
Set User Telephone Information
Set User Terminal Services Configuration

Java

Computers

Create Computer Account
Delete Computer Account
Disable Computer Account
Enable Computer Account
Get Computer Account OU
Is Computer Account Enabled
Move Computer Account To OU

Reset Computer Account

Groups

Add User To Group

Create Group

Delete Group

Remove User From Group

Samples

Test Computer Account Sample

Test Groups Sample

Test Users Sample

Users

Authenticate User

Create User

Delete User

Disable User

Enable User

Is User Enabled

Reset Password

Ant

Ant Script

Build Ant Command

Apache

Get Server Stats

Application Servers

BEA WebLogic

Query Configuration Manager

Query Domain Configuration

Query Domain Runtime

Applications

Check Application State

Configure Application Deployment Attribute

Deploy Application

Get Application Names By Server

Query Application Deployment Configuration

Query Application Deployment Configuration Target

Query Application Runtime

Restart Application

Start Application

Stop Application

Undeploy Application

Wait For State

Samples

is Application up

is WebLogic Up

Restart

Servers

Configure Server Attribute

Query Server Configuration

Query Server Runtime

Restart Server

Resume Server

Start Server

Suspend Server

Total Server Shutdown

Citrix Presentation Server

Get Farm Name

Get Servers

Query Server

Applications

Add Application to Server

Get Applications

Modify Application

Query Application

Remove Application from Server

Sessions

Get Sessions

Logoff Session

Query Session

Users

Add User To Application

Query User

Remove User from Application

Citrix XenApp

Close Runspace Session

Close RunspacePool Session

Get Farm Name

Get Servers

Query Server

Run XenApp Cmdlets

Applications

Add Application to Server

Get Applications

Modify Application

Query Application

Remove Application from Server

Sessions

Get Sessions

Query Session

Stop Session by SessionId

Stop User Session

Users

Add User to Application

Query User

Remove User from Application

Jboss

JBoss Action

Tomcat

Manage Tomcat

Restart Tomcat Web Application

Start Tomcat Web Application

Stop Tomcat Web Application

WebSphere

Get Attribute

Invoke Operation

Samples

Sample Get Attribute

Sample Invoke Operation

Backup Exec

Job Management

Backup

Restart

Restore

Stop

Samples

Backup

Restart

Restore

Stop

Log Analyzer

Get Alert Details

Get Job History

Samples

Get Alert Details

Get Job History

Databases

DSN Command

DSN Query

JDBC

Get All Rows

SQL Command

SQL Query

SQL Query All Rows

SQL Query LOB

SQL Query Tabular

SQL Script

Samples

Custom Driver Command

Custom Driver Query

Test SQL Query LOB Sample

Microsoft SQL

Close Database Connection

Get Active Connections

Get Server Instances

Is a SQL Server

Run SRS Report

SQL Command

SQL Query

SQL Restart

SQL Script

Samples

Active Connections

Is An SQL Server

Server Instances

Oracle

Index Fragmentation Calculations

Index Fragmentation Index Query Builder

Index Fragmentation Query Builder

TNS Names SQL Command

TNS Names SQL Query

TNS Names SQL Query LOB

TNS Names SQL Query Tabular

TNS Names SQL Script

Sybase

Email

Get Mail Attachment

Get Mail Message

Get Mail Message Count

Send Mail

Send Mail - Windows Only

Test and Send Email

SMTP

Check SMTP Server

samples

Check EHLO

Exchange

Add Custom Attribute

Change Exchange Features

Change Exchange Features pre-2007

DC Diagnostic

Establish Email Address

Exchange Restart

Exchange Server Info

Fix Exchange

Fix Non Clustered Exchange

Get A Records

Get Custom Attribute

Get Exchange Server Details

Get Exchange Server List

Get MX Records

Get Transport Server Info

Is An Exchange
Is Exchange Server Alive
Net Diagnostic
Remove Custom Attribute
Select an IP address
Server Health
Set Basic Information
Set Delivery Options
Set Delivery Restrictions
Set Storage Limits
Set User ILS Information
SMTP Diagnostic
SMTP Extensions
Test Mailflow
Wait for no SMTP Service Connections

Emails

Add Email Addresses
Change Email Addresses
Get Email List
Get Next Email
Read Attachment
Read Email
Remove Email Addresses

Reply Mail

Send Mail

Exchange 2003 Clustered

Fix Clustered Exchange

Start Clustered Exchange

Exchange 2007 Clustered

Get Clustered Mailbox Server Status

Move Clustered Mailbox Server

Start Clustered Mailbox Server

Stop Clustered Mailbox Server

Emails

Get Email List

Get Next Email

Move Email

Read Attachment

Read Email

Reply Email

Send Email

Samples

Emails

Read Attachments

Reply Email Sample

Exchange 2010

Run Exchange 2010 Cmdlets

Database Availability Group

Get Database Availability Group

Move Active Mailbox Database

Start Database Availability Group

Stop Database Availability Group

Emails

Get Email List

Get Next Email

Move Object

Read Attachment

Read Email

Reply Mail

Mailbox

Add Mailbox Permission

Enable Mailbox

Get Folder List

Get Next Folder

Move Mailbox

Remove Mailbox Permission

Remove Object

Samples

Emails

Move Emails

Read Attachments

Reply Mail Sample

Test Exchange

Test IMAP Connectivity

Test Mailflow

Test Mapi Connectivity

Test MRS Health

Test Owa Connectivity

Test POP Connectivity

Test Replication Health

Test Service Health

Test System Health

Utility

Exchange Health Tests

Outlook Web Access Health Tests

Restart Exchange

Mailbox

Add Mailbox Permission

Change Mailbox Rights

Create Mailbox

Delete Exchange Object

Get Folder List

Get Mailbox Database

Get Next Folder

Get Storage Group

Get User Mailbox Info

Move Mailbox

Move Object

Remove Mailbox

Remove Mailbox Permission

Remove Object

Samples

DC Diagnostic

Exchange Server Information

Get A-Records

Get MX-Records

Is An Exchange Sample

Net Diagnostic

Read Attachments

SMTP Diagnostic

SMTP Validation

Validate SMTP Extensions

File System

Cross Platform

Create Zip

FS Copy

FS Create Directory

FS Create Temp File

FS Delete
FS Exists
FS Get Children
FS Hidden
FS Is Directory
FS MD5 Sum
FS Modified
FS Move
FS Readable
FS Rename
FS Size
FS Writeable
Read from File
Write to File

Samples

Create Temp File Sample
Directory Tree Traversal Sample
Get Children Sample
Hidden Sample
Is Directory Sample
MD5 Sum Sample
Modified Sample
Move Sample
Readable Sample

Rename Sample

Size Sample

Writeable Sample

Windows Only

Convert to UNC

Create Zip

FS Accessed

FS Convert Path To UNC

FS Copy

FS Copy Inter Machines

FS Create Directory

FS Create Temp File

FS Created

FS Delete

FS Exists

FS Get Children

FS Is Directory

FS MD5 Sum

FS Modified

FS Move

FS Properties

FS Rename

FS Security Properties

FS Set Attributes

FS Set Security Properties

FS Size

Read File

Read Ini File

Set Properties

Write Ini File

Write to File

Excel

Add Excel Data

Delete Cell

Delete Cell by Condition

Get Cell

Get Cell by Condition

Get Row Index by Condition

Modify Cell

Modify Cell by Condition

New Excel Document

Samples

Accessed Sample

Create Temp File Sample

Created Sample

Directory Tree Traversal Sample

Get Children Sample

Is Directory Sample

MD5 Sum Sample

Modified Sample

Move Sample

Properties Sample

Read File Sample

Rename Sample

Size Sample

Groovy

Groovy Script

HTTP Client

Find URL References

Form Extractor

Form Single Input Extractor

HTML Parameter Extractor

HTML Parser

Http Client Delete

Http Client Detailed Return

Http Client Get

Http Client Get to File

Http Client Head

Http Client Multipart Post

Http Client Options

Http Client Post

Http Client Post Raw

Http Client Put

Http Client Put Binary

Http Client Trace

Iterative HTML Parser

Recursive Link Checker

Timed Get

Samples

Check URL via Http Client Get

Determine Results

IIS

Change Application Pool Status

Change Site Status

Get Application Pool Status

Get IIS version

Get Site Status

Is An IIS

List Application Pools

List Sites

Wait for no ASP.NET Connections

Wait for no Web Service Connections

Wait For Performance Counter Value With Timeout

Samples

Is An IIs Sample

JVM

JVM Low Memory Check

JVM Memory Usage Statistics

LDAP

.NET

LDAP Add Property Value

LDAP Get All Properties

LDAP Get Child Objects

LDAP Get Properties

LDAP Get Property Value

LDAP Object Exists

LDAP Remove Property Value

LDAP Search

LDAP Search Next Result

LDAP Set Property Value

Java

LDAP Get Child Objects

LDAP Get Properties

LDAP Get Property Value

LDAP Object Exists

LDAP Search

LDAP Search All Results

LDAP Search Next Result

LDAP Set Property Value

Samples

LDAP Java CN Sample

LDAP Java Get Property Value Sample

LDAP Java OU Sample

LDAP Search All Results Sample

MS Cluster

Change Clustered Resource Status

Failover Resources From Server

Get Cluster Nodes

Get Clustered Resource Owner

Get Clustered Resource State

Get Clustered Resources

Is Clustered Resource

Move Cluster Group

PowerShell

Run Failover Cluster Cmdlets

Cluster

Get Cluster

Start Cluster

Stop Cluster

Cluster Access

Block Cluster Access

Get Cluster Access

Grant Cluster Access

Remove Cluster Access

Cluster Disks

Clear Cluster Disk Reservation

Get Cluster Available Disk

Cluster Groups

Add Cluster Group

Get Cluster Group

Move Cluster Group

Remove Cluster Group

Start Cluster Group

Stop Cluster Group

Cluster Log

Get Cluster Log

Set Cluster Log

Cluster Networks

Get Cluster Network

Get Cluster Network Interface

Update Cluster IP Resource

Cluster Nodes

Add Cluster Node

Clear Cluster Node

Get Cluster Node

Remove Cluster Node

Resume Cluster Node

Start Cluster Node

Stop Cluster Node

Suspend Cluster Node

Cluster Owner Nodes

Get Cluster Owner Node

Set Cluster Owner Node

Cluster Quorum

Get Cluster Quorum

Set Cluster Quorum

Cluster Resource Dependencies

Add Cluster Resource Dependency

Get Cluster Resource Dependency

Get Cluster Resource Dependency Report

Remove Cluster Resource Dependency

Set Cluster Resource Dependency

Cluster Resource Types

Add Cluster Resource Type

Get Cluster Resource Type

Remove Cluster Resource Type

Cluster Resources

Add Cluster Resource

Get Cluster Resource

- Move Cluster Resource
- Remove Cluster Resource
- Resume Cluster Resource
- Start Cluster Resource
- Stop Cluster Resource
- Suspend Cluster Resource
- Test Cluster Resource Failure

Cluster Shared Volumes

- Add Cluster Shared Volume
- Get Cluster Shared Volume
- Move Cluster Shared Volume
- Remove Cluster Shared Volume

Network

- Connection Tester
- Local Ping
- Local Traceroute
- Ping
- Port Ping
- Traceroute

Cisco

- Detect Restarted Cisco Router
- Write Memory

CDP

- CDP Disable

CDP Enable

CDP Interface Enable

Enumerate Routers

Get CDP Neighbors

Interfaces

Enable Interface

Get Interface Details

Get Interfaces

Set IP Address

Show Controller

Show Interface Stat

Show Interface Switching

Show Queueing Interface

Logging

Disable Local Logging

Enable Local Logging

Set Syslog Server

Show Log

Misc

Add DNS Server

Add Time Server

Add User

Cancel Delayed Reload

Delayed Reload

Delayed Reload with Config Save Check

Delete User

Enable DNS Client

Reload Server

Set Banner

Set Time

Show Buffers

Show Context

Show Diag

Show Proc CPU

Show Stacks

Show Technical Support

Show Version

Routing

Add RIP Network

Disable Routing

Enable Routing

Show IP Route Summary

Samples

Get Aggregate Log Information

Get Interface Info

Security

Set Enabled Secret

Telnet Commands

Add user through Telnet
Enable AAA Authentication
Enable SSH

VLAN

Add VLAN
Enable VLANs
Generate VLAN Report
Get Interface VLANS
Get Virtual Interfaces
Get VLAN Details
Get VLANs

DNS

Compare Server Names
DIG
DNS Lookup New
DNS Ping Compare
Reverse DNS Lookup

Samples

Compare Server
DIG
DNS Lookup
Reverse DNS Lookup

Port Scanner

Port Scanner

Sample

Port Scanner

Utilities

Convert Netmask

Subnet Iterator

Operating Systems

AIX

Disk and File Operations

Delete File

Disk Metrics

Disk Usage

Get Extended IO Information

Get File System List

Get Last Log Messages

Get Last Log Time and Message

Largest File

Memory and Processor Operations

CPU Metrics

Get vmstat Information

Memory Metrics

Network Operations

Check Network Interface for Errors

Network Metrics

Ping

Trace Route

OS and Server Operations

Current Time

Get Active Users

Get Fileset Version

Get Last Boot Time

Get Load Averages

Get OS Name

Get Processor Count

Reboot Server

Uptime

Process Operations

Check Process By Command Line

Check Process by PID

Get Process List

Kill Process

Kill-9 Process

Process Metrics

Run Service

FreeBSD

Disk and File Operations

Disk Usage

Get File System List

Get Last Log Time and Message

Memory and Processor Operations

CPU Metrics

Memory Metrics

Network Operations

Interface Info

Network Metrics

OS and Server Operations

Current Time

Get Last Boot Time

Get Load Averages

Get OS Name

Get Processor Count

Reboot server

Uptime

Process Operations

Check Process By Command Line

Check Process by PID

Check Process Output

Get Process List

Kill Process

Kill-9 Process

Run Service

HP-UX

Disk and File Operations

Delete File

Disk Metrics

Disk Usage

Get Extended IO Information

Get File System List

Get Last Log Message

Get Last Log Time and Message

Largest File

Memory and Processor Operations

CPU Metrics

Get vmstat Information

Memory Metrics

Network Operations

Check Network Interface for Errors

Network Metrics

Ping

Trace Route

OS and Server Operations

Current Time

Get Active Users

Get Last Boot Time

Get Load Averages

Get OS Name

Get Package Version

Get Processor Count

Reboot Server

Uptime

Process Operations

Check Process By Command Line

Check Process by PID

Get Process List

Kill Process

Kill-9 Process

Process Metrics

Run Service

Linux

Logs

Archive Delete Files

Delete or Archive

Get Archive Name

List Files

Log Analyzer

Samples

Linux Log File Backup

Log Analyze

Red Hat

Disk and File Operations

Delete File

Disk Metrics

Disk Usage

Get Extended IO Information

Get File System List

Get Last Log Messages

Get Last Log Time and Message

Largest File

Memory and Processor Operations

CPU Metrics

Get vmstat Information

Memory Metrics

Network Operations

Check Network Interface for Errors

Network Metrics

Ping

Trace Route

OS and Server Operations

Current Time

Get Active Users

Get Last Boot Time

Get Load Average

Get OS Name

Get OS Version

Get Package Version

Get Processor Count

Reboot server

Uptime

Process Operations

Check Process By Command Line

Check Process by PID

Get Process List

Kill Process

Kill-9 Process

Process Metrics

Run Service

Scripts

Copy Script From Localhost

Copy Script From Remote host

Remote Linux File Deleter

Remote Linux Script File Runner

Remote Or Local

Samples

Remote Script Runner

SUSE Linux

Disk and File Operations

Delete File

Disk Usage

Get File System List

Get Last Log Messages

Get Last Log Time and Message

Largest File

Memory and Processor Operations

CPU Metrics

Get vmstat Information

Memory Metrics

Network Operations

Check Network Interface for Errors

Network Metrics

Ping

Trace Route

OS and Server Operations

Current Time

Get Active Users

Get Last Boot Time

Get Load Averages

Get OS Name

Get Package Version

Get Processor Count

Reboot server

Uptime

Process Operations

Check Process By Command Line

Check Process by PID

Get Process List

Kill Process

Kill-9 Process

Process Metrics

Run Service

Solaris

Format Display Information

Disk and File Operations

Delete File

Disk Metrics

Disk Usage

Get Device from Mount

Get Extended IO Information

Get File System List

Get Last Log Message

Get Last Log Time and Message

Largest File

Last Modified

Memory and Processor Operations

Check Processor Status

CPU Metrics

Get Processor Count

Memory Metrics

Network Operations

Check Network Interface for Errors

Network Metrics

Ping

Trace Route

OS and Server Operations

Get Active Users

Get Last Boot Time

Get Load Averages

Get OS Name

Get Patches

Has Patch

Reboot

Uptime

Process Operations

Check for Blocked Threads

Check Process By Command Line

Check Process by PID

Get Active Process Statistics

Get Process List

Kill Process

Run Service

Threads Metrics

Windows

Compare queries
Compare SW installed
Comparison Report
Copy and Run Script
Create Windows Health Report
Get Active Users
Get Average CPU Load
Get Average Disk Usage
Get Largest File
Get Performance Counter Value
Get Processor Status
Ping
Remote Command Execution
Restart Windows
Run Script
Run Script from File
Safely Remove File
Trace Route

Event Logs

Detect Restarted Windows Server
Filter Event Log
Iterative Windows Event Log Diagnostic
Log Windows Event

Search Event Log

Windows Event Log Diagnostic

Samples

Log Event Sample

Performance Counters

Get Performance Counters

CPU

Get CPU Usage

Get Percent DPC

Get Percent Interrupt Time

Disk

Get Average Seconds per Disk Read

Get Average Seconds per Disk Write

Memory

Get Available Memory in Megabytes

Get Memory Pages per Sec

Get Percent Memory Committed

Processes

Get Process Counters

Get Process PID

Get Processes By Name

Get Task List

Get Windows Processes

Terminate Process

Registry

- Create Registry Key
- Delete Registry Key
- Delete Registry Value
- Enumerate Registry Key Values
- Enumerate Registry Subkeys
- Read Registry Key Value
- Write Registry Key Value

Samples

- Event log searcher
- Filter and Mailer
- Get Active Users Sample
- Get Percentage Of Processor Time
- Registry Sample
- Sample CPU Flow
- Sample Memory Flow
- Sample Physical Disk Flow
- Service Start Mode Sample
- Windows Delete or Zip
- WMI Query

Services

- Change Service Credentials
- Change Service Start Mode
- Change Service Status

- Check Services List
- Does Service Exist
- Get Service List By Start Mode
- Get Service Start Mode
- Reset Windows Service Credentials
- Restart Windows Service
- Service Port Health Check
- Service Status
- Start Service If Automatic

PowerShell

- Get Execution Policy
- PowerShell Script
- Set Execution Policy

Events

- Clear Event Log
- Get Event Log
- Limit Event Log
- List Event Types
- Remove Event Log
- Unregister Event Source
- Write Event Log

Networking

- Configure Network Adapter

Get Adapter Configuration

List Network Adapters

Remoting

Set WinRM Client Policies

Set WinRM Service Policies

Set WinRS Policies

Test PowerShell Remoting

Services

Get Dependent Services

Get Service Dependencies

List Services

Number of Services

Resume Service

Start Service

Stop Service

Suspend Service

Shares

Create Share

Delete Share

List Shares

Utility

Add Computer

Create Local Group

Create Local User

Disable Local User
Enable Local User
Get Date and Time
Get Disk Drives
Get Hotfix
Get Logical Disks
Get Screen Saver
Get WMI Log Level
Remove Computer
Rename Computer
Report Desktop Settings
Report Firewall Configuration
Report Logical Disk Performance
Restart Computer
Set WMI Log Level
Shutdown Computer

Printing

Assign Default Printer
Delete All Printers
Delete Big Print Jobs
Delete Named Printer
Delete Print Job
Delete Specific Printer
File Printer

List Printer Capabilities
List Printer Drivers
List Printers
Modify Printer Availability
Modify Printer Priority
Monitor Print Queues Times
Pause All Print Jobs
Pause Print Job
Pause Printer
Pause Printers
Print Job Information
Print Jobs
Print Jobs IDs
Print Jobs Statistics
Print Jobs Status
Print Queues
Printer Port Properties
Printer Status
Purge Print Queue
Rename Printer
Resume All Print Jobs
Resume Print Job
Resume Printer
Resume Printers

Text Printer

Remote Command Execution

Remote Command

Remote Shell

RSH

REXEC

RSH

Samples

Run REXEC

Run RSH Command as Root

SSH

SSH (Windows RAS)

SSH Command

SSH Shell

SSH Shell Add Tunnel

SSH Shell Logoff

SSH Shell Logon

Samples

SSH Shell Session Sharing Example

SSH Shell Tunnel Example

Telnet

RAS Telnet Shell

Send Password

Send Username

Telnet Command

Samples

Telnet Command Sample

Remote File Transfer

Remote Copy

FTP

Get

Put

SCP

Remote Secure Copy

Secure Copy

Samples

Remote Secure Copy Sample

Secure Copy

SFTP

SFTP Chgrp

SFTP Chmod

SFTP Chown

SFTP Create Directory

SFTP Delete Directory

SFTP Delete File

SFTP Exists

SFTP Get

SFTP Get Attributes

SFTP Get Children

SFTP Is Directory

SFTP Ls

SFTP Put

SFTP Rename

Samples

SFTP Get

SFTP Get Directory

SFTP Get Directory Multi Thread

SFTP Put

WebDAV

Check In

Check Out

Copy

Delete

Exists

Is Collection

Is Locked

Lock

Make Collection

Move

Put

Put from File

Unlock

Sharepoint

Is A Sharepoint

Samples

Is A Sharepoint Sample

SNMP

SNMPv2 and v3 Varbind List Appender

Samples

SNMPv2 Get Physical Addresses Sample

SNMPv2 Set Sample

v1

SNMPv1 Get

SNMPv1 Get Next

SNMPv1 Set

SNMPv1 Trap

SNMPv1 Varbind List Appender

SNMPv1 Walk

v2

SNMPv2 Get

SNMPv2 Get Bulk

SNMPv2 Get Next

SNMPv2 Inform

SNMPv2 Set

SNMPv2 Trap

SNMPv2 Walk

v3

SNMPv3 Get

SNMPv3 Get Bulk

SNMPv3 Get Next

SNMPv3 Inform

SNMPv3 Set

SNMPv3 Trap

SNMPv3 Walk

TN3270

Capture All Fields

Capture Field

Capture Screen

Connect

Disconnect

Execute Command

Move Cursor

Move To Field

Read Buffer

Send Characters

Send PA Key

Send PF Key

Send SysReq

Snap

Wait

Samples

Menu Capture Sample

Wizards

Web Service

Invoke Method 2

WMI

Basic WMI Diagnostic

WMI CSV Value Getter

.NET

Formatted WMI Query

Invoke WMI Class Method

Invoke WMI Instance Method

Set WMI Attribute

WMI Query

WMI Query Results Transformer

Java

Formatted WMI Query

Invoke WMI Class Method

Invoke WMI Instance Method

Set WMI Attribute

WMI Query

WMI Query Results Transformer

WS-Management

Samples

Enumerate resources

Single Resource Management

WS-Enumeration

Enumerate

Pull

Release

WS-Transfer

Create

Delete

Get

Put

Templates

Blank Flow

Check for Windows Event

Check Windows CPU

Counter Average Threshold

Create a Trouble Ticket

F5 Iterable Action Template

Network Check

Restart Service

Restart Solaris Server

Tutorials

Restart Service - Tutorial Flow

subflows

Get Stopped Service List

Pick a Service

Restart Service

Utility Operations

Includes the following folders:

- [Containers](#) – see page 176
- [Date and Time](#) – see page 177
- [Flow Variable Manipulation](#) – see page 177
- [HTML Formatting](#) – see page 178
- [Looping](#) – see page 178
- [Math and Comparison](#) – see page 178
- [Samples](#) – see page 179
- [XML Processing](#) – see page 179

Base64 Decoder

Base64 Encoder

Chop

Display Message

Generic Diagnostic

Manual

Notify

Operating System Detector

Random Number Generator

RAS Command

Search and Replace

Sleep

String Occurrence Counter

Temp File Reader

UUID Generator

Containers

List Map

JSON

Add JSON Property to Object

Add Object to Array

Add Property to Object

Add to Array

Array Iterator

Array Size

Convert Object to Flow Variables

Get Array Entry

Get Array Sublist

Get Object Keys

Get Value from Object

Merge Arrays

Remove Array Entry

Lists

Contains All

Generate Report From Lists

Get Element Matching

List Appender

List Item Grabber

List Prepend

List Remover

List Size

List Sort

Trim List

Tables

Get Column from Table

Table Sort

Date and Time

Check Time

Date and Time Comparator

Date Parser

File Date Check

Get Current Date and Time

Is Time Zone Id

Offset Time by

Offset Time from Now

Recently Run

Time Zone Converter

Flow Variable Manipulation

Check Null

Clear Flow Variable

Clear Global Flow Variable

Do Nothing

Flow Variable Resolver

Set Flow Variable

Set Flow Variables

HTML Formatting

HTML Link Formatter

HTML String Formatter

HTML Table Formatter

Samples

HTML Formatter Sample

Looping

Counter

List Iterator

Loop

Selection List Iterate

Math and Comparison

Alphabetical String Comparator

Average Threshold

Base Converter

Double Comparator

Evaluate Expression

String Comparator

String Equals

Simple Evaluators

Addition

Divider

Equal

Greater Than

Greater Than or Equal

Less Than

Less Than or Equal

Multiply

Not Equal

Power

Subtraction

Statistics

Analyze List

Analyze Table Columns

Check Trend

Samples

Generate Random Number

OSDetector Sample

Resolve Context Values to String

Sample Generate Run URL

Sample XPath Query

XML Processing

Validate XML Document

XML Element Filter

XML Get Attributes

XML Get Element Value

XPath Evaluator

XPath Query

XPath Query from File

XSL Transformation
