

#### Variables

#### Truncate number

Get the integral or fractional digits of a numeric value, or round up the value to a specified number of decimal places

#### Generate random number

Generate a random number or a list of random numbers that fall between a minimum and maximum value

#### Clear list

Remove all items from a list

#### Remove item from list

Remove one or multiple items from a list

#### Sort list

Sort the items of a list. Use items of the same type

#### Shuffle list

Create a random permutation of a list

#### Merge lists

Merge two lists into one

#### Reverse list

Reverse the order of the items of a list

# Remove duplicate items from list

Remove the multiple occurrences of items in a list, so that in the resulting list each item will be unique

#### Find common list items

Compare two lists and create a new list with the items that are common to both

# Subtract lists

Compare two lists and create a new list with the items that are in the first list but not in the second

#### Retrieve data table column into list

Convert the contents of a data table column into a list

# Variables (cont)

### Convert JSON to custom object

Convert a JSON string to a custom object

### Convert custom object to JSON

Convert a custom object to a JSON string

#### Add item to list

Append a new item to a list

#### Create new list

Create a new empty list

#### Increase variable

Increase the value of a variable by a specific amount

#### Decrease variable

Decrease the value of a variable by a specific amount

#### Set variable

Set the value of a new or existing variable, create a new variable or overwrite a previously created variable

# **UI** automation

#### If window contains

Marks the beginning of a conditional block of actions depending on whether a specific piece of text or UI element exists in a window

# Wait for window content

Suspends the execution of the automation until a specific piece of text or UI element appears or disappears from a Window

# If image

This action marks the beginning of a conditional block of actions depending on whether a selected image is found on the screen or not

#### Use desktop

Performs desktop and taskbar related operations

### Select tab in window

Selects a tab from a group of tabs

### **UI automation (cont)**

### Wait for image

This action waits until a specific image appears on the screen or on the foreground window

#### Hover mouse over UI element in window

Hover the mouse over any UI element on window

#### Click UI element in window

Clicks on any UI element of a window

#### Select menu option in window

Selects an option in a menu of a window

# Drag and drop UI element in window

Drags and drops a UI element of a window

#### Expand/collapse tree node in window

Expands or collapses a node of a tree view residing in a window

#### If window

This action marks the beginning of a conditional block of actions depending on whether a window is open or not or whether a window is the focused (foreground) window

#### Wait for window

Suspends the execution or the process until a specific window opens, closes, get or loses the focus

### **UI** automation - Data Extraction

# Get details of window

Gets a property of a window such as its title or its source text

# Get details of a UI element in window

Gets the value of a UI element's attribute in a window

Get selected checkboxes in window

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#### **UI automation - Data Extraction (cont)**

Retrieves the names of the selected checkboxes in a checkbox group or the state of a specific checkbox

#### Get selected radio button in window

Retrieves the names of the selected radio button in a radio button group or the state of a specific radio button

#### Extract data from window

Extracts data from specific parts of a window in the form of single values, lists, or tables

#### Take screenshot of UI element

Takes a screenshot of a UI element in window

### **UI automation - Form filling**

#### Focus text field in window

Sets the focus on a text box of a window and scrolls it into view

#### Populate text field in window

Fills a text box in a window with the specified text

#### Press button in window

Presses a window button

# Select radio button in window

Selects a radio button on a window

# Set checkbox state in window

Checks or unchecks a checkbox in a window form

# Set drop-down list value in window

Sets or clears the selected option(s) for a drop-down list in a window form

### **UI automation - Windows**

# Get window

Gets a running window, for automating desktop applications

## Focus window



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### **UI automation - Windows (cont)**

Activates and brings to the foreground a specific window

#### Set window state

Restores, maximizes or minimizes a specific window

#### Set window visibility

Shows a hidden window or hides a visible window

#### Move window

Sets the position of a specific window

#### Resize window

Sets the size of a specific window

#### Close window

Closes a specific window

# **Browser automation**

### If web page contains

Mark the beginning of a conditional block of actions, depending on whether a specific piece of text or element exists in a web page

# Wait for web page content

Suspend the flow until a specific piece of text or web page element appears or disappears from a web page

# Launch new Internet Explorer

Launch a new instance or attach to a running instance of Internet Explorer for automating web sites and web applications

# Launch new Firefox

Launch a new instance or attach to a running instance of Firefox for automating web sites and web applications

#### Launch new Chrome

Launch a new instance or attach to a running instance of Chrome for automating web sites and web applications

# Launch new Edge

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### **Browser automation (cont)**

Launch a new instance or attach to a running instance of Edge for automating web sites and web applications

#### Create new tab

Create a new tab and navigate to the given URL (supported in Edge, Chrome and Firefox)

#### Go to web page

Navigate the web browser to a new page

#### Click link on web page

Click on a link or any other element of a web page

#### Click download link on web page

Click on a link in a web page that results in downloading a file

## Run JavaScript function on web page

Run a JavaScript function on the web page and get the returned result

#### Hover mouse over element on web page

Hover the mouse over an element of a web page

#### Close web browser

Close a web browser window

### Browser automation - Web form filling

# Focus text field on web page

Set the focus on an input element of a web page and scroll it into view

# Populate text Field on web page

Fill a text field in a web page with the specified text

#### Set check box state on web page

Check or uncheck a check box in a web form

### Select radio button on web page

Select a radio button on the web page

Set drop-down list value on web page



### Browser automation - Web form filling (cont)

Set or clear the selected option for a dropdown list in a web form

#### Press button on web page

Press a web page button

#### Browser automation - Web data extraction

#### Extract data from web page

Extract data from specific parts of a web page in the form of single values, lists, rows or tables

#### Get details of web page

Get a property of a web page, such as its title or its source text

#### Get details of element on web page

Get the value of an element's attribute on a web page

#### Take screenshot of web page

Take a screenshot of the web page (or an element of the web page) currently displayed in the browser and save the image into a file or to the clipboard

# **HTTP**

#### Download from web

Downloads text or a file from the web and stores it

#### Invoke SOAP web service

Invokes a method from a SOAP web service

#### Invoke web service

Invokes a web service by sending data and retrieves the response from the web service

# Mouse and keyboard

# **Block Input**

Blocks user mouse and keyboard input, so that the flow can perform mouse and keyboard actions without interference from the user

#### Get mouse position

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### Mouse and keyboard (cont)

Retrieves the current position of the mouse cursor on the screen in pixel coordinates

#### Move mouse

Moves the mouse to a specific position

# Move mouse to image

Moves the mouse over an image found on screen or on the foreground window

### Move mouse to text on screen (OCR)

Moves the mouse over a text found on the screen or on the foreground window using OCR

#### Send mouse click

Sends a mouse click event

#### Send keys

Sends keys to the application that is currently active

#### Press/release key

Presses (and holds) or releases one or more modifier keys (Alt, Control, or Shift)

# Set key state

Sets the state (on or off) for the keys Caps Lock, Num Lock or Scroll Lock

#### Wait for mouse

Suspends the execution of the flow until the mouse pointer changes, usually to or from the 'wait cursor' or hourglass

#### Get keyboard identifier

Retrieves the active keyboard identifier from the machine's registry

#### Wait for shortcut key

Pause the flow run until a specific shortcut key is pressed. Shortcut keys must contain at least one key or a key and one of (ctrl, alt, shift). Multiple shortcut keys can be defined

#### **Azure**

#### Create session

Creates an Azure session

#### Get subscriptions

Gets subscriptions that the current account can access

#### End session

Ends an Azure session

#### Azure - Resource groups

# Get resource groups

Gets the resource groups based on the specified criteria

#### Create resource group

Creates a new resource group

#### Delete resource group

Deletes the specified resource group and all the contained resources

#### **Azure - Virtual machines**

#### Get virtual machines

Gets the basic information for the virtual machines

# Describe virtual machine

Gets all the information for the virtual machine(s) based on the specified criteria

## Start virtual machine

Starts the virtual machine

#### Stop virtual machine

Stops the virtual machine and deallocates the related hardware (CPU and memory) and network resources

#### Shut down virtual machine

Shuts down the operating system of a virtual machine

#### Restart virtual machine

Restarts a virtual machine

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### Cryptography

### Encrypt text with AES

Encrypt a string with AES, using a key and a specified encoding format

#### Decrypt text with AES

Decrypt a string with AES based on a specified key and an encoding format

#### Encrypt from file with AES

Encrypt the contents of a file with AES, using a key and a specified encoding format

#### Decrypt to file with AES

Decrypt a string to a file with AES based on a specified key and an encoding format

#### Hash text

Hash a string, using a specified algorithm and an encoding format

#### Hash from file

Hash the contents of a file, using a specified algorithm and an encoding format

#### Hash text with key

Hash a string with a key, using a specified algorithm and an encoding format

# Hash from file with key

Hash the contents of a file with a key, using a specified algorithm and an encoding format

## CyberArk

# Get password from CyberArk

Retrieves a password for a specific application from CyberArk

### Google cognitive - Natural language

## Analyze sentiment

Invokes the Google Cloud Natural Language service named 'Analyze Sentiment'

## Analyze entities

Invokes the Google Cloud Natural Language service named 'Analyze Entities'

#### Analyze syntax

### Google cognitive - Natural language (cont)

Invokes the Google Cloud Natural Language service named 'Analyze Syntax'

# Google cognitive - Vision

#### Label detection

Invokes the Google Cloud Vision service named 'Label Detection'

#### Landmark detection

Invokes the Google Cloud Vision service named 'Landmark Detection'

#### **Text Detection**

Invokes the Google Cloud Vision service named 'Text Detection'

# Logo detection

Invokes the Google Cloud Vision service named 'Logo Detection'

#### Image properties detection

Invokes the Google Cloud Vision service named 'Image Properties Detection'

#### Safe search detection

Invokes the Google Cloud Vision service named 'Safe Search Detection'

# IBM cognitive - Tone analyzer

#### Analyze tone

Invokes the IBM service named 'Analyze Tone'

# Conditionals

#### Case

An expression that, if met, a block of actions associated with that particular case runs

#### Default case

A block of actions that is run, if no case expression has been met in the switch body

#### Else

### Conditionals (cont)

Marks the beginning of a block of actions that ran if the condition specified in the preceding 'If' statements aren't met

#### Else if

Marks the beginning of a block of actions that ran if the conditions specified in the preceding 'If' statements aren't met, but the condition specified in this statement is met

#### lf

Marks the beginning of a block of actions that is run if the condition specified in this statement is met

#### Switch

Dispatches execution to different parts of the switch body based on the value of the expression

#### Loops

#### Exit loop

Terminates the loop and the flow resumes at the next action or statement following the loop

#### For each

Iterates over items in a list, data table or data row, allowing a block of actions to be executed repeatedly

#### Loop

Iterates a block of actions for a specified number of times

#### Loop condition

Iterates a block of actions as long as a specified condition proves to be true

# Next loop

Forces the next iteration of the block to take place, skipping any actions in between



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#### Folder

#### If folder exists

Mark the beginning of a conditional block of actions depending on whether a folder exists or not

#### Get files in folder

Retrieve the list of files in a folder

#### Get subfolders in folder

Retrieve the list of subfolders in a folder

#### Create folder

Create a new folder

#### Delete folder

Delete an existing folder and its contents (files and subfolders)

#### **Empty folder**

Delete all the contents of a folder (files and subfolders) without deleting the folder itself

#### Copy folder

Copy a folder into a destination folder

#### Move folder

Move an existing folder into a destination folder

#### Rename folder

Change the name of a folder

# Get special folder

Retrieve the path of a Windows' special folder (such as Desktop, My Pictures, Internet Cache etc)

# Compression

#### ZIP files

Compress one or more files or folders into a ZIP archive

# Unzip files

Uncompress one or more files or folders contained in a ZIP archive

### Workstation

#### Print document

Prints a document on the default printer

### Get default printer

Gets the name of the default printer

### Set default printer

Sets a printer as the default printer

#### Log off user

Logs off the current user

### Shutdown computer

Instructs the computer to shut down

#### Show desktop

Shows the desktop

#### Lock workstation

Locks the workstation's display to protect it from unauthorized use

#### Play sound

Plays a system sound or a wav file

#### Empty recycle bin

Deletes all files from the windows recycle bin

#### Take screenshot

Takes a screenshot of the foreground window or the specified screen and saves the image in a file or to the clipboard

# Control screen saver

Enables, disables, starts or stops the screensaver

# Get screen resolution

Gets the width, height, bit count and frequency of a selected monitor

#### Set screen resolution

Sets the width, height, bit count and frequency of a selected monitor during an attended desktop flow run.

### **System**

### If process

Marks the beginning of a conditional block of actions depending on whether a process is running or not

#### Wait for process

Suspends the execution until a process starts or stops

#### Run application

Executes an application or opens a document by executing the associated application

#### Terminate process

Immediately stops a running process

#### Ping

Sends a message to determine whether a remote computer is accessible over the network

#### Set Windows environment variable

Sets an environment variable to a given value

# Get Windows environment variable

Retrieves the value of an environment variable

#### Delete Windows environment variable

Deletes an environment variable from a given scope

#### **PDF**

# Extract text from PDF

Extract text from a PDF file

# Extract tables from PDF

Extract tables from a PDF file

#### Extract images from PDF

Extract images from a PDF file

# Extract PDF file pages to new PDF file

Extract pages from a PDF file to a new PDF file

# Merge PDF files



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### PDF (cont)

Merges multiple PDF files into a new one

#### **OCR**

#### If text on screen (OCR)

Marks the beginning of a conditional block of actions depending on whether a given text appears on the screen or not, using OCR

#### Wait for text on screen (OCR)

Wait until a specific text appears/disappears on the screen, on the foreground window, or relative to an image on the screen or foreground window using OCR

#### Extract text with OCR

Extract text from a given source using the given OCR engine

#### **Text**

#### Append line to text

Appends a new line of text to a text value

#### Get subtext

Retrieve a subtext from a text value

#### Pad text

Creates a fixed length text by adding characters to the left or to the right of an existing text

#### Trim text

Removes all occurrences of white space characters (such as space, tab, or new line) from the beginning and/or end of an existing text

#### Reverse text

Reverses the order of letters in a text string

# Change text case

Changes the casing of a text to uppercase, lowercase, title case or sentence case

#### Convert text to number

### Text (cont)

Converts a text representation of a number to a variable that contains a numeric value

#### Convert number to text

Converts a number to text using a specified format

#### Convert text to datetime

Converts a text representation of a date and/or time value to a datetime value

#### Convert datetime to text

Converts a datetime value to text using a specified custom format

#### Create random text

Generates a text of specified length consisting of random characters. This can be useful for generating passwords

#### Join text

Converts a list into a text value by separating its items with a specified delimiter

#### Split text

Creates a list containing the substrings of a text that are separated by a specified delimiter or a regular expression

#### Parse text

Parses a text to find the first or all occurrences of a specified subtext or a regular expression pattern

#### Replace text

Replaces all occurrences of a specified subtext with another text. It can also be used with regular expressions

# Escape text for regular expression

Escapes a minimal set of characters (, \*, +, ?, |, {, [, (,), ^, \$,.., #, and white space) by replacing them with their escape codes

#### Recognize entities in text

### Text (cont)

Recognizes entities in text, such as numbers, units, data/time and others expressed in natural language across multiple languages

#### **XML**

#### Read XML from file

Read the contents of an XML file into a variable

#### Write XML to file

Write the contents of an XML node variable into a file

# **Execute XPath expression**

Extract values from an XML document based on the provided XPath query

#### Get XML element attribute

Get the value of an attribute of an XML element

#### Set XML element attribute

Set the value of an attribute of an XML element

# Remove XML element attribute

Remove an attribute from an XML element

# Get XML element value

Get the value of an XML element

# Set XML element value

Set the value of an XML element

# Insert XML element

Insert a new XML element into an XML document

# Remove XML element

Remove one or more XML elements from an XML document

#### **Database**

# Open SQL connection

Open a new connection to a database

Execute SQL statement

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### Database (cont)

Connect to a database and execute a SQL statement

#### Close SQL connection

Close an open connection to a database

#### **CMD** session

#### Open CMD session

Open a new CMD session

#### Read from CMD session

Read the output of a CMD session

#### Write to CMD session

Execute a command on an open CMD session

#### Wait for text on CMD session

Wait for a specific text on a previously opened CMD session

#### Close CMD session

Close a previously opened CMD session

### Windows services

#### If service

Marks the beginning of a conditional block of actions depending on whether a service is running, paused, stopped or installed on the computer

#### Wait for service

Suspend the execution of the automation until a service is running, paused or stopped on the computer

#### Start service

Start a stopped Windows service

# Stop service

Stop a running Windows service

#### Pause service

Pause a running Windows service

# Resume service

Resume a paused Windows service

# Azure - Virtual machines - Snapshots

### Get snapshots

Gets the snapshots based on the specified criteria

#### Create snapshot

Creates a snapshot from the specified disk

#### Delete snapshot

Deletes the snapshot with the specified name and resource group

### Azure - Virtual machines - Disks

#### Get disks

Gets the disks based on the specified criteria

#### Attach disk

Attaches an existing disk to the virtual machine with the specified name and resource group

#### Detach disk

Detaches the disk from the virtual machine with the specified name and resource group

#### Create managed disk

Creates a managed disk with the specified settings

#### Delete disk

Deletes the managed disk with the specified name and resource group

# **Active Directory**

#### Connect to server

Connects to an Active Directory server

#### Close connection

Closes the connection with the Active Directory server

### **Active Directory - Group**

#### Create group

Creates a group in the Active Directory

#### Get group info

Gets information about a group from the Active Directory server

#### Get group members

Gets the members of a group in the Active Directory

#### Modify group

Modifies a group in the Active Directory

# **Active Directory - Object**

#### Create object

Creates an object in the Active Directory

#### Delete object

Deletes an object in the Active Directory

# Move object

Moves an object in the Active Directory

#### Rename object

Renames an object in the Active Directory

# Microsoft cognitive - Bing spell check

# Spell check

Invokes the Microsoft Cognitive service named 'Bing Spell Check'

# Microsoft cognitive - Computer vision

# Analyze image

Invokes the Microsoft Cognitive service named 'Analyze Image'

# Describe image

Invokes the Microsoft Cognitive service named 'Describe Image'

## OCR



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# Microsoft cognitive - Computer vision (cont)

Invokes the Microsoft Cognitive service named 'OCR'

#### Tag image

Invokes the Microsoft Cognitive service named 'Tag Image'

### Microsoft cognitive - Text Analytics

#### **Detect language**

Invokes the Microsoft Cognitive service named 'Text Analytics - Detect Language'

#### Key phrases

Invokes the Microsoft Cognitive service named 'Text Analytics - Key Phrases'

#### Sentiment

Invokes the Microsoft Cognitive service named 'Text Analytics - Sentiment'

# IBM cognitive - Visual recognition

### Classify Image

Invokes the IBM service named 'Classify Image'

# Flow control

# Comment

User comment

# End

Set rules and manage the course of the flow

#### Fxit subflow

Exits current subflow and returns to the point it was called from

# Get last error

Retrieves the last error that occurred in the flow

#### Go to

Transfers the flow of execution to another point, indicated by a label

#### Label

Acts as the destination of a 'go to' statement

### Flow control (cont)

#### On block error

Marks the beginning of a block to handle actions errors

#### Run subflow

Run a subflow specifying any required arguments

#### Stop flow

Terminates the flow

#### Wai

Suspends the execution of the flow for a specified amount of seconds

#### **Run flow**

# Run desktop flow

Runs a desktop flow which can receive input variables and may produce output variables. The parent flow run will be paused until the called desktop flow completes.

#### File

#### If file exists

Marks the beginning of a conditional block of actions depending on whether a file exists or not

#### Wait for file

Suspend the execution of the automation until a file is created or deleted

# Copy file(s)

Copy one or more files into a destination folder

# Move file(s)

Move one or more files into a destination folder

## Delete file(s)

Delete one or more files

# Rename file(s)

Change the name of one or more files

# Read text from file

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### File (cont)

Read the contents of a text file

#### Write text to file

Write or appends text to a file

#### Read from CSV file

Read a CSV file into a data table

#### Write to CSV file

Write a data table, data row or list to a CSV file

#### Get file path part

Retrieve one or more parts (directory, filename, extension etc) from a text that represents a file path

# Get temporary file

Create a uniquely named, empty temporary file on disk, and get the file object (which is a representation, and can access the file and all its information)

#### Convert file to Base64

Convert a file to Base64 encoded text

# Convert Base64 to file

Convert a Base64 encoded text to file

# **Email**

#### Retrieve email messages

Retrieves email messages from an IMAP server

# Process email messages

Moves, deletes or marks as unread an email (or a list of emails) retrieved by a Retrieve emails action

# Send email

Creates and sends a new email message



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### **Exchange**

### Connect to Exchange server

Open a new connection to an Exchange server

#### Retrieve Exchange email messages

Retrieve email messages from the specified Exchange server

#### Send Exchange email message

Create and send a new email message

#### Process Exchange email messages

Move, delete or mark as unread an email message (or a list of email messages)

#### Outlook

#### Launch Outlook

Launch Outlook and create a new Outlook instance

#### Retrieve email messages from Outlook

Retrieve email messages from an Outlook account

### Send email through Outlook

Create and send a new email message through Outlook

# Process email messages in Outlook

Move or deletes an email (or a list of email messages) retrieved by a 'Retrieve emails from Outlook' action.

# Save Outlook email messages

Save Outlook email messages given an account

# Respond to Outlook mail message

Respond to an Outlook message, by replying, replying to all or forwarding it

#### Close Outlook

Close a previously launched Outlook instance

#### Excel

#### Run Excel Macro

Runs a specified macro on the document of an Excel instance

#### Get active Excel worksheet

Retrieves an Excel document's active worksheet

#### Get all Excel worksheets

Retrieves all worksheet names of an Excel document

#### Delete Excel worksheet

Deletes a specific worksheet from an Excel instance

#### Rename Excel worksheet

Renames a specific worksheet of an Excel instance

#### Activate Cell in Excel Worksheet

Activate a cell in the active worksheet of an Excel instance, by providing column, row and offset

#### Select cells in Excel worksheet

Selects a range of cells in the active worksheet of an Excel instance

# Get selected cell range from Excel worksheet

Retrieve the selected range of cells in a structure consisting of first column, first row, last column and last row

## Copy cells from Excel worksheet

Copies a range of cells from the active worksheet of an Excel instance

#### Paste cells to Excel worksheet

Pastes a range of cells to the active worksheet of an Excel instance

#### Delete from Excel worksheet

Deletes a cell or a range of cells from the active worksheet of an Excel instance

#### Insert row to Excel worksheet

Inserts a row above a selected row of an Excel instance

### Excel (cont)

#### Delete row from Excel worksheet

Deletes a selected row from an Excel instance

#### Insert column to Excel worksheet

Inserts a column to the left of a selected column of an Excel instance

#### Delete column from Excel worksheet

Deletes a selected column from an Excel instance

#### Find and replace cells in Excel worksheet

Finds text and replaces it with another in the active worksheet of an Excel instance

# Get first free row on column from Excel worksheet

Retrieve the first free row, given the column of the active worksheet

#### Launch Excel

Launches a new Excel instance or opens an Excel document

#### Attach to running Excel

Attaches to an Excel document that's already open

#### Read from Excel worksheet

Reads the value of a cell or a range of cells from the active worksheet of an Excel instance

#### Get active cell on Excel worksheet

Get the active cell in the active worksheet of the Excel document

#### Save Excel

Saves a previously launched Excel instance

#### Write to Excel worksheet

Writes a value into a cell or a range of cells of an Excel instance

# Close Excel

Closes an Excel instance

Set active Excel worksheet

By

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### Excel (cont)

Activates a specific worksheet of an Excel instance

#### Add new worksheet

Adds a new worksheet to the document of an Excel instance

# Get first free column/row from Excel worksheet

Retrieves the first free column and/or row of the active worksheet. This is useful for adding new data into a worksheet that already has data in it

#### Get column name on Excel worksheet

Gets the name of the column

# Message boxes

#### Display message

Displays a message box

#### Display input dialog

Displays a dialog box that prompts the user to enter text

#### Display select date dialog

Displays a dialog box that prompts the user to enter a date or date range

# Display select from list dialog

Displays a dialog box with options that lets the user select from a list

# Display select file dialog

Displays the select file dialog and prompts the user to select one or more files

# Display select folder dialog

Displays the select folder dialog and prompts the user to select a folder

#### Display custom form

Display a customized form that can include multiple types of elements, like text, number or file inputs etc.

### **Datetime**

#### Add to datetime

Adds (or subtracts) a specific number of seconds, minutes, hours or days to a datetime value

#### Subtract dates

Finds the time difference between two given dates in days, hours, minutes, or seconds

#### Get current date and time

Retrieves the current date or the current date and time

### Scripting

#### Run DOS command

Executes a DOS command or console application in invisible mode and retrieves its output upon completion

### Run VBScript

Executes some custom VBScript code and retrieves its output into a variable

#### Run JavaScript

Executes some custom JavaScript code and retrieves its output into a variable

# Run PowerShell script

Executes some custom PowerShell script and retrieves its output into a variable

# Run Python script

Executes Python 2 script code and retrieves its output

# FTP

# Open FTP connection

This action establishes a specific connection to a remote FTP server, and stores that connection as a variable for later use.

# List FTP directory

This action returns the subdirectories and files contained in the current directory of an FTP connection

# FTP (cont)

### Open secure FTP connection

This action establishes a specific secure connection to a remote FTP server, and stores that connection as a variable for later use

#### Close connection

This action closes an open FTP connection

#### Change working directory

This action sets the current working directory for an FTP connection

### Download file(s) from FTP

Downloads one or more files from an FTP server

#### Download folder(s) from FTP

Downloads one or more folders from an FTP server

### Upload File(s) to FTP

Uploads one or more files to an FTP server

# Upload folder(s) to FTP

Uploads one or more folders to an FTP server

#### Delete FTP file

Deletes one or more files from an FTP server

# Rename FTP File

Renames a file that resides on an FTP server

#### Create FTP directory

Creates a directory on an FTP server

#### Delete FTP directory

Deletes a directory from an FTP server

#### Invoke FTP command

Invokes the given literal FTP command on the server

# Synchronize directories



By **RPAWorld** (VJR) cheatography.com/vjr/

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### FTP (cont)

Synchronize the files and subdirectories of a given Folder with a given remote FTP directory

### AWS - EC2

### Create EC2 session

Create an EC2 client to automate EC2 web services

#### End EC2 session

Dispose an open EC2 client

## AWS - EC2 - Instances

#### Start EC2 instance

Start EC2 instance(s)

#### Stop EC2 instance

Stop EC2 instance(s)

### Reboot EC2 instance

Reboot EC2 instance(s)

#### Get available EC2 instances

Get information for the relevant EC2 instances

#### Describe instances

Returns all the information for the specified EC2 instance(s)

# AWS - EC2 - Snapshots

# Create snapshot

Create a snapshot of an EBS volume and stores it in Amazon S3

# Describe snapshots

Describes the specified EBS snapshots available

#### Delete snapshot

Delete the specified snapshot

# AWS - EC2 - Volumes

# Create volume

Create an EBS volume

# Attach volume

By **RPAWorld** (VJR) cheatography.com/vjr/

# AWS - EC2 - Volumes (cont)

Attach an EBS volume to an EC2 instance

#### Detach volume

Detach an EBS volume from an EC2 instance

#### Describe volumes

Describe the specified EBS volumes

#### Delete volume

Delete the specified EBS volume

### **Active Directory - User**

#### Create user

Creates a user in the Active Directory

#### Get user info

Gets a user's information in the Active Directory

#### Modify user

Modify a user in the Active Directory

#### Unlock user

Unlocks an Active Directory user

# Update user info

Updates a user's information in the Active Directory

#### **Terminal emulation**

### Open terminal session

Open a new terminal session

# Close terminal session

Close an open terminal session

# Move cursor on terminal session

Move the terminal's cursor on the specified position

#### Get text from terminal session

Get text from a terminal session

### Set text on terminal session

Set text on a terminal session

# Send key to terminal session

### **Terminal emulation (cont)**

Send a control key to a terminal session

#### Wait for text on terminal session

Wait for a specific text to appear on a terminal session

#### IBM cognitive - Document conversion

#### Convert document

Invokes the IBM service named 'Convert Document'

### IBM cognitive - Language translator

#### Translate

Invokes the IBM service named 'Translate'

#### Identify language

Invokes the IBM service named 'Identify Language'

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