

PowerShell at a Glance: Modular → Noun then Verb Organization (Verb then Noun as needed)



Core Modules

Modules: Latest Version 5.0.1.0 ; 357 Cmdlets

Microsoft.PowerShell.Archive

Archive: **Compress** / **Expand**

Microsoft.PowerShell.Core

55 Cmdlets

Microsoft.PowerShell.Diagnostics

Countr. **Get** / **Import** / **Export** | *WinEvent.* **Get** / **New**

Microsoft.PowerShell.Host

Transcript. **Start** / **Stop**

Microsoft.PowerShell.Management

83 Cmdlets

Microsoft.PowerShell.ODataUtils

ODataEndpointProxy. **Export**

Microsoft.PowerShell.Security

13 Cmdlets

Microsoft.PowerShell.Utility

102 Cmdlets

Microsoft.WSman.Management

13 Cmdlets

ISE

IseSnippet. **New** / **Import** / **Get**

PackageManagement

9 Cmdlets

PSDesiredStateConfiguration

16 Cmdlets

PowerShellGet

27 Cmdlets

PSLocalAccount5

0 Cmdlets

PSReadline

5 Cmdlets

PSScheduledJob

16 Cmdlets

PSScriptAnalyzer

ScriptAnalyzerRule. **Get** *ScriptAnalyzer.* **Invoke**

PSWorkflow

PSWorkflowSession. **New**

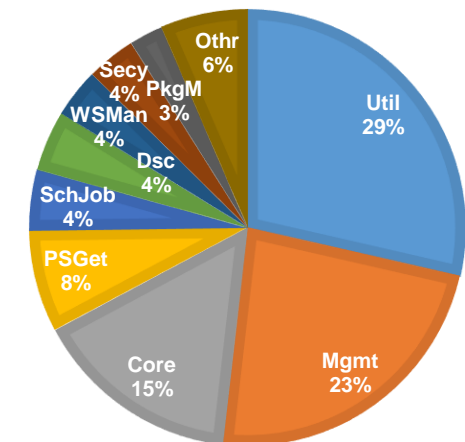
PSWorkflowExecutionOption. **New**

[creates an object that contains session configuration options for workflow sessions]

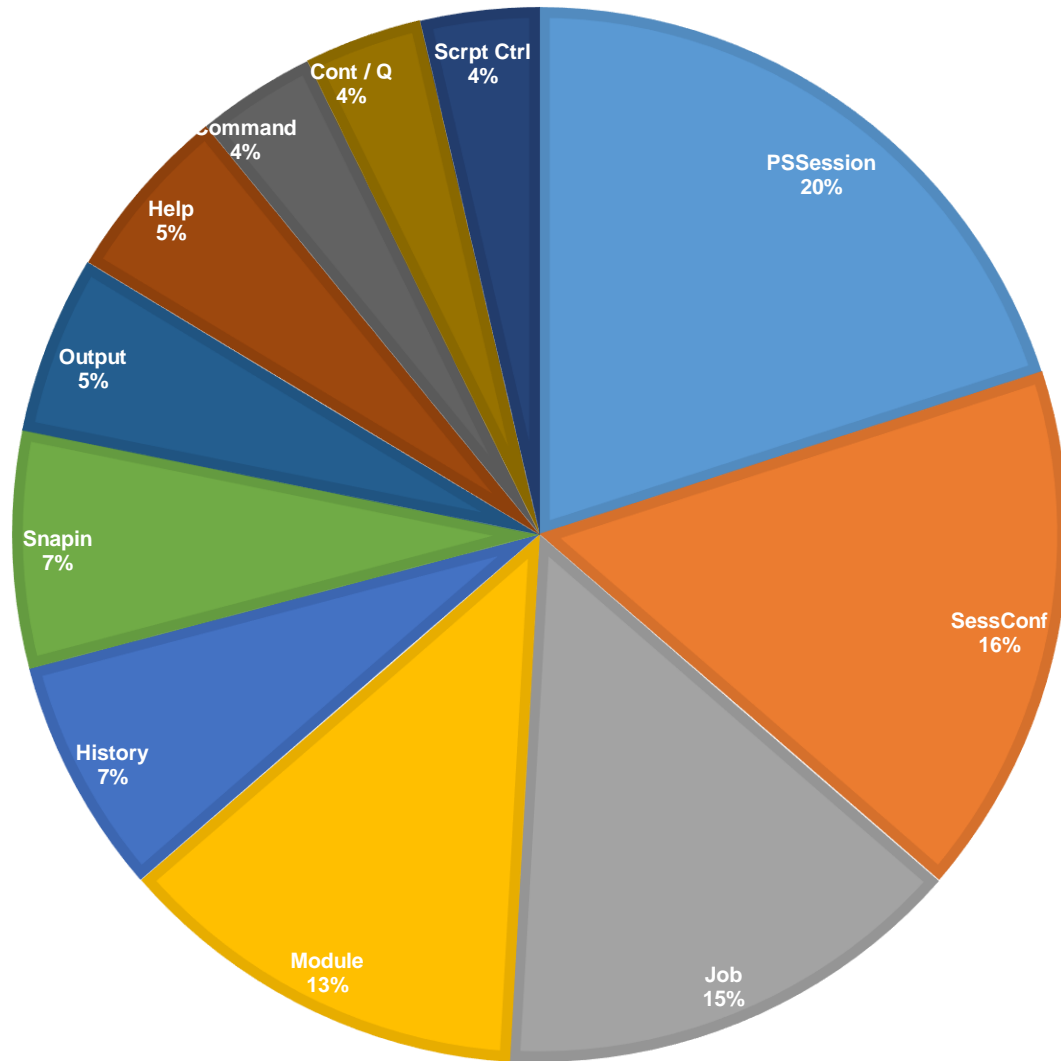
PSWorkflowUtility

AsWorkflow. **Invoke**

[runs a command or expression as a Windows PowerShell workflow]



Microsoft.PowerShell.Core



PSSession

EbL/dbL PSRemoting
New / remove
Conn / dconn
Enter / exit
Get / rcv [get results]
New- (...)Option
[adv session options]

PSSessConfig

Enable / disable
Register / Unreg
Get / set
New-(...)File
Test-(...)File
New-PSTrnsprtOpt.
[adv session cfg opts]

Job

Start / stop / remove
Suspend / resume
Get / receive
Wait
[suppress cmd prompt
until on or all running
jobs complete]

History

Get / add / clear
Invoke [run from hist]

Out(-)

Host [to console]
Null [delete it]
Default
[custozbl output f()]

Module

Import / remove
New [dynamic] / **get**
Export-(...)Member
New/test-(...)Manifest

Help

Get / save [to dir]
Update

PSSnapIn

Add / get / remove
Export-console [list]

Command

Get
Invoke

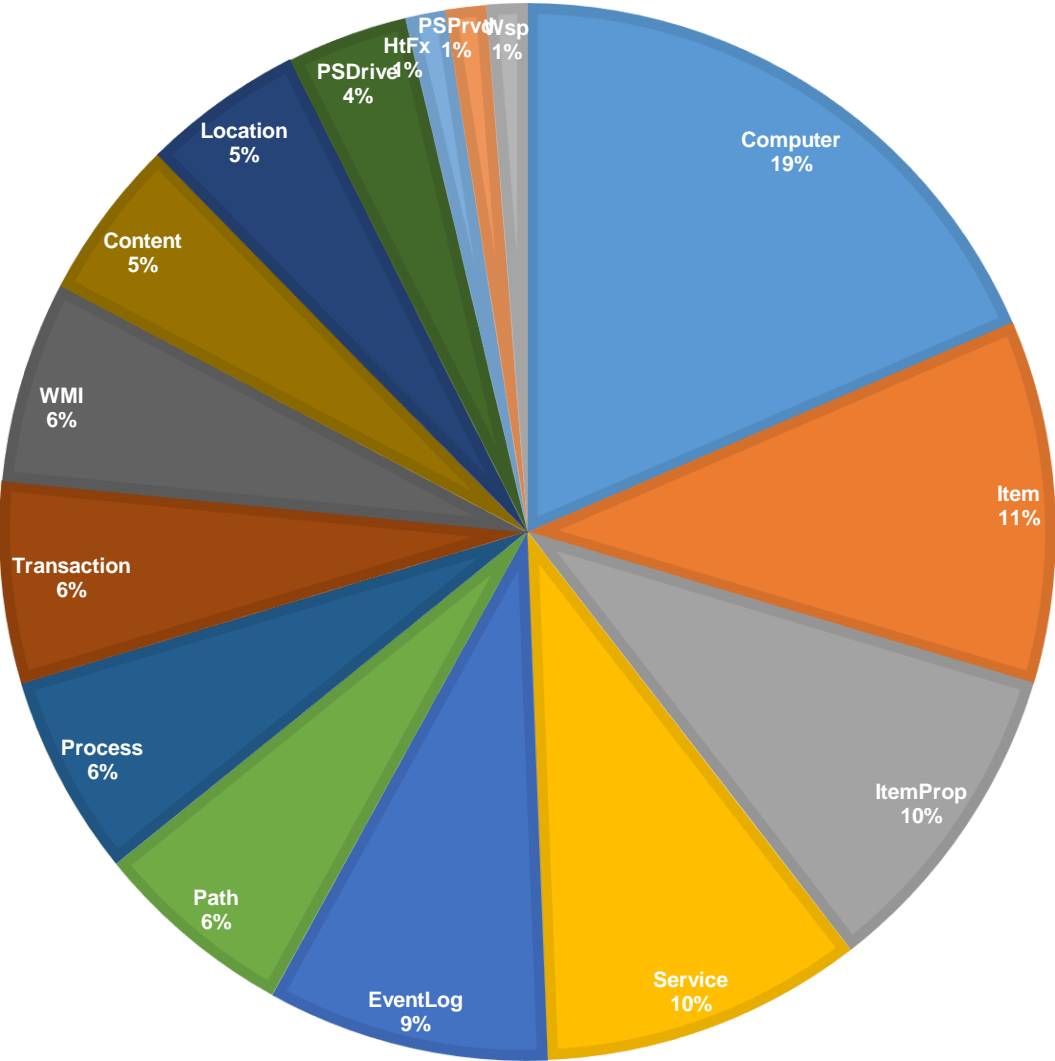
Control & Query

ForEach-Object [iterate over input items in collection]
Where-Object [select objects on property value criteria]

Script Control

Set-PSDebug [toggle script debugging features and strict mode, set trace lvl]
Set-StrictMode [establish/enforce coding rules in expr, scripts, script blocks]

Microsoft.PowerShell.Management



Microsoft.PowerShell.Management

Item

New / Remove / Copy

Move / Get / Rename

Clear [contents]

Invoke

[default action on specified item]

Set

[chg item value as specified]

New / Remove / Copy / Move

Get- / Rename- (...)Property

[property & value]

Clear / Set [value]

Computer

Add / Rm [dom; wkgrp]

Restart / Stop / Rename

Enable/Disable- (...)Restore

Checkpoint / Restore

Get- (...)RestorePoint

Reset- (...)MachinePassword

Get / Show- ControlPanellItem

Test- ComputerSecureChannel

Test- Connection [ping+]

Get- ChildItem

Transaction

Start / Get

Use / Undo / Complete

[+scripblk->actv/rollbk actv/cmit actv]

WMI

Register- (...)Event [subscribe:]

Set- (...)Instance

[create/update existing WMI class]

Invoke- (...)Method [call method]

Get / Remove- (...)Object

Process

Start / Stop / Debug [local] / **Get** [+remote]

Wait

[for process stop before accept more input]

PSDrive

New

[mapped drives temp or persistent]

Get

[current session drives]

Remove

[temp drives & disconx mapped drives]

Service

New / Start / Stop / Restart / Suspend / Resume

Get [remote capable]

Set [start/stop/suspend/change properties]

Content

Add

[specified items words, etc. -> file]

Clear [delete: from item]

Get [at specified location]

Set [overwrite]

WebServiceProxy

New

[cnx to web svc & create web svc proxy obj
in PowerShell]

Event Log

Clear / Get [specified entries local/remote/all]

Limit [specify log size & entry age] **Write** [manual append]

New / Remove [log & event source] **Show** [Event Viewer]

Location

Set

Get

Pop

[switch to most recent stack push]

Push

[add current to top]

Get-PSProvider

Path

Join / split [path + child path / gets specified path segment]

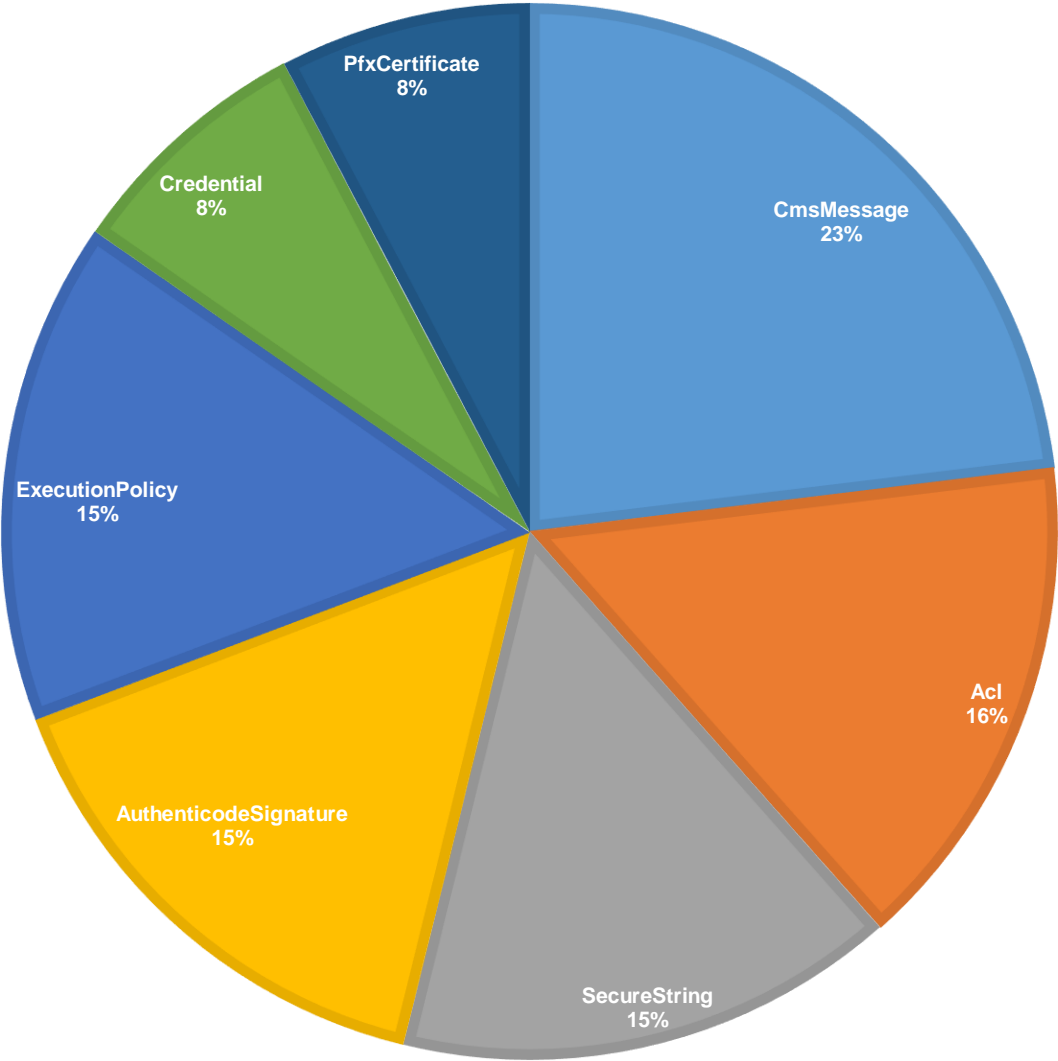
Test [find if all elements of path exist]

Resolve [wildcard characters in path & dsplay path contents]

Convert [PS path -> provider path]

Get-HotFix

Microsoft.PowerShell.Security



CmsMessage
Get
[content encrypted w/Cryptographic Msg Syntax format]
Protect / Unprotect
[encrypt/decrypt as:]

ExecutionPolicy
Get
[:for current session]
Set
[chg usr prefs for PSh:]

Acl
Get
[security descriptor for resource as in file, reg key]
Set
[change sec descr of item specified as in """]

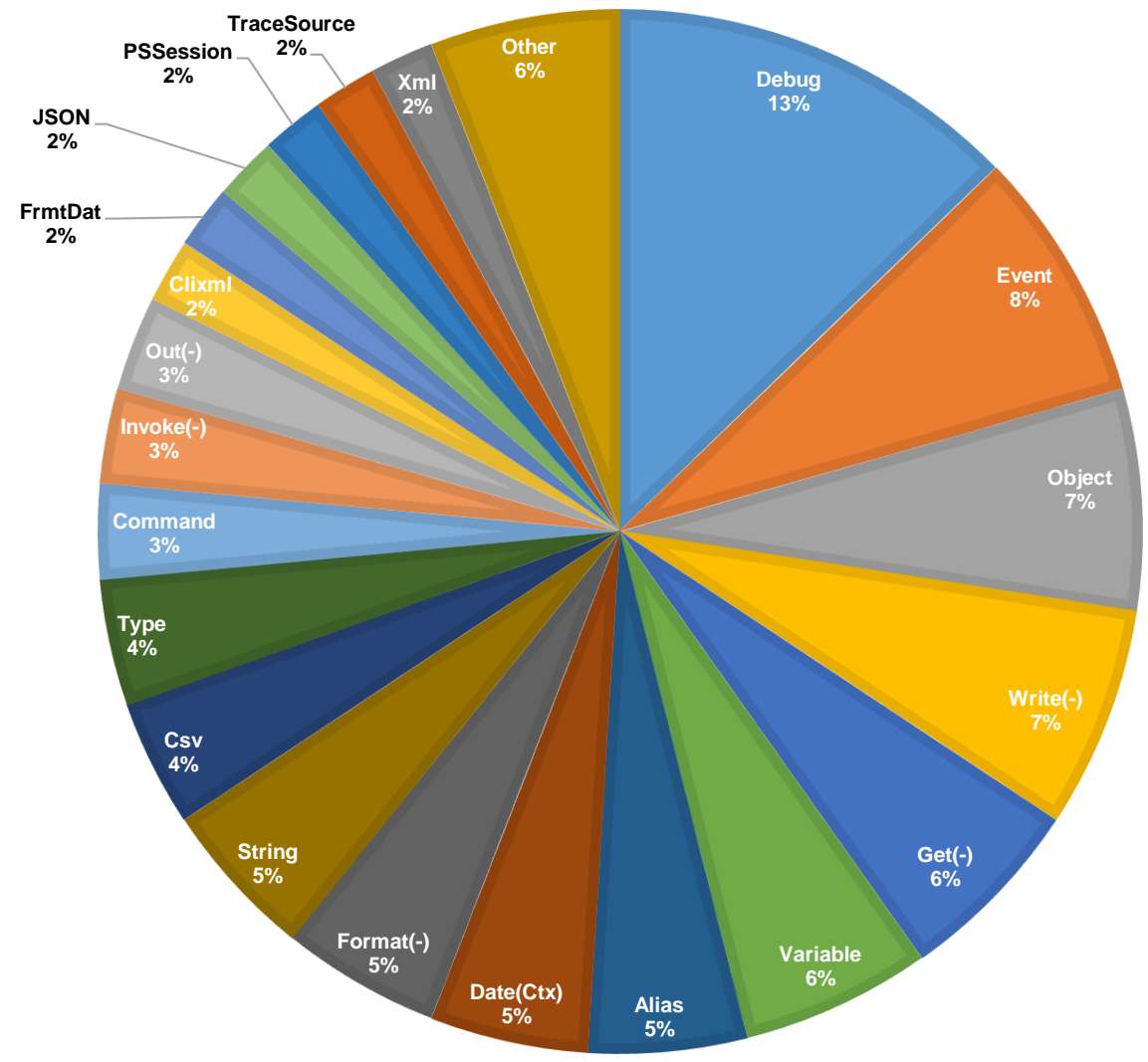
PfxCertificate
Get
[info about: files on pc]

SecureString
ConvertFrom
[->secure to encrypted standard]
ConvertTo
[->encrypted standard strings to secure strings or conv plain txt to secure strings]

Credential
Get
[Crdential object based on user name & pw]

AuthenticodeSignature
Get [information about the: signature for a file]
Set [adds: signature to PowerShell script or other file]

Microsoft.PowerShell.Utility



Microsoft.PowerShell.Utility

PSBrkPt Runsp .Debug

PSBreakPoint

Enable / Disable / Get / Remove
Set [on line, cmd or var]

Runspace

Get / Debug [intactv sess within]

RunspaceDebug

Enable

[where any bkpt is preserved until
debugger is attached]

Disable

[>=1 rnsp, relese pend dbgr stop]

Get [show rnsp dbg options]

Wait-Debugger

Write-Debug [msg -> console]

Start-Sleep [susp specif period]

Type

Add [.NET frwk class in PS sess]

Update-(...)Data

[extnded type data in the session]

Get / Rm-(...)Data

Get(-)

FileHash [cmpt hshvl(file) hshalg]

Host [obj reps curr host program]

Read-Host [read in prompt to var]

Member [object props/methods]

PSCallStack [current call stack]

Random [num or randget frm coll]

Unique [unique fm sorted list]

Event

Unregister

[cancels]

New / Get / Remove [frm que]

Wait

[to run until * raised]

Get-(...)Subscriber

Register-Object(...)

[subscribe to .NET obj gen events]

Register-Engine(...)

[sbscrb PSengn gen / new event]

Date(Context)

Get / Set

Get-(UI)Culture

Import-LocalizdData

New-TimeSpan [obj]

Alias

New / get

Set [create/chg]

Import / Export

Object

New

[.NET or COM object instance]

Compare [2 sets of]

Group / Select / Sort / Tee

[obj contng same val 4 spec prop]

[object or its properties]

[by property values]

[save-output -> file or var & pipe]

Measure

[numeric/string properties]

PSSession

Export / Import

Imp-P.S.DataFile

TraceSource

Get

Set

[cfg/strt/stp trace]

Xml

ConvertTo

Select [find txt in]

Variable

Get / New [curr console]

Set / Rm / Clear [value]

Add-Member

[custom props&mths-> obj instnc]

Format(-)

Custom [output]

Hex [from input]

List / Table / Wide

Csv

ConvertFrom / To

Export / Import

Clixml

Import

Export

Write(-)

Error [object -> error stream]

Host [custo output -> host]

Info... [spcf info strm hndlng]

Output [obj -> next pipeL cmd]

Progress / Verbose / Warning

[Misc]

New-Guid

ConvertTo-HTML

[.NET Fwk Obj to]

Update-List

[+/- items from

property values

containing obj

collection]

Send-MailMsg.

New-Temp.File

Unblock-File

[from internet]

FormatData

Export [c.sess -> file]

Get / Update

Json

ConvertFrom

ConvertTo

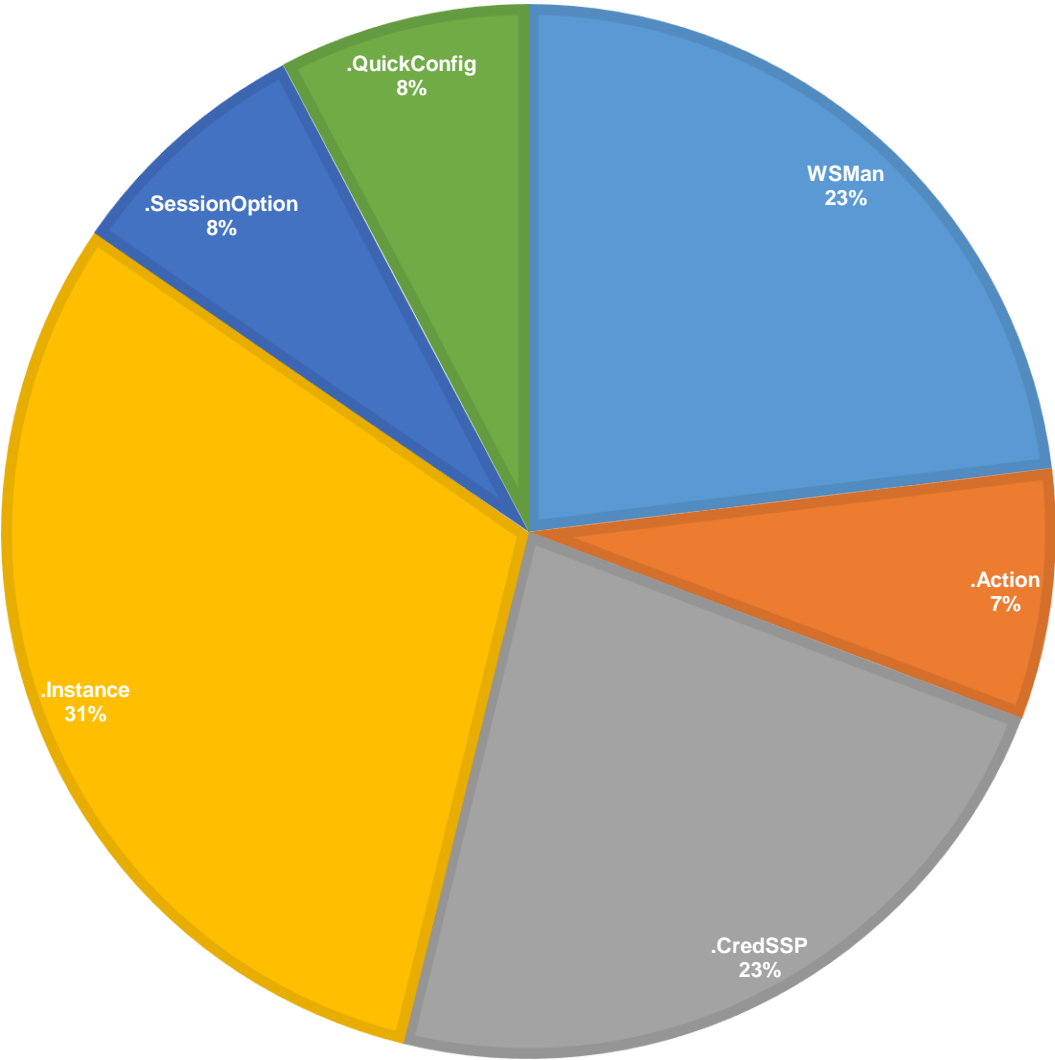
Command

Show [->guipopup]

Trace [cfg/strt trc expr/]

Measure [ttrun block/]

Microsoft.WSMan.Management



WSMan

Connect / Disconnect
[to / from svc: remote pc]
Test
[if svc running: local/remote]

WSManCredSSP

Enable / Disable
[authentication]
Get
[:related config for client]

WSManQuickConfig

Set [config local machine for remote management]

WSManAction

Invoke
[:on obj spec by Rsrc URI & by selectors]

WSManInstance

Get
[:mgmt. info for Rsrc URI spec. rsrc instnc]
New / Remove
Set
[modify mgmt. info related to resource]

WSManSessionOption

New
[tggl script debugging features and strict]

PackageManagement

Package

Get
[all instld by 1Get]
Save
[->loc NolInstall]
Install / Uninstall

PackageSource

Get
[pkg prvdrs cnx:1Get]
Set
[rplc pkgSrc for spec
pkgProv]
Register [+pkgSrc for
spec pkgProv]
Unregister [-regist]

Pkg.Provider

Get
[:connxed to OneGet]

PSScheduledJob

JobTrigger

Get
[of schd jobs]
New
[cr for schd job]
Add
[to schd jobs]
Disable / Enable
[of scheduled jobs]
Set
[chg: of shcd job]
Remove
[frm schd jbs]

ScheduldJob

Get [local]
Disable / Enable
Set
[change]
Register
[create]
Unregister
[delete]

Schd.JobOption

Get
[job optns of schd jobs]
New
[cr obj cntns adv
options for schd.job]
Set
[chg options]

PSDesiredStateConfiguration

DscConfig.

Get
[current: of nodes]
Start / Stop
[apply: nodes / rngng]
Test
[if actual match desrd]
Publish
[to set of machines]
Update
[chk pull srvr & appl
updated config]
Restore
[reapply prev node cfg]

DscDebug

Disable / Enable
[stop/start dbg all DSC
resources]

DscChecksum

New
[create: files for DSC
documents and
resources]

DscCfg.Docum.

Remove
[cfgdoc from DSC cfg
store]

DscResource

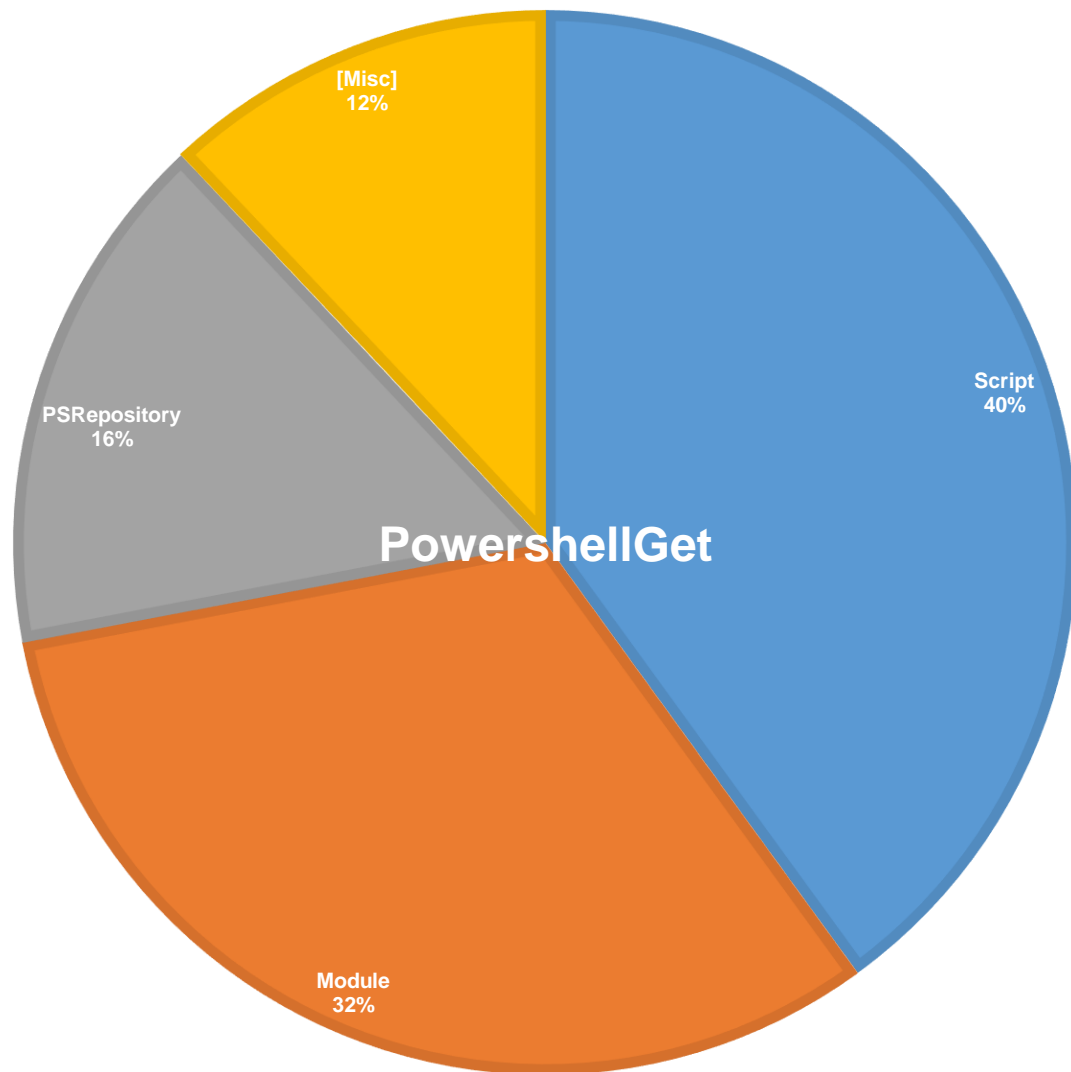
Get
Invoke
[run method of
specified:]

DscLocalConfigurationManager

Get [gets LCM settings and states for the node]
Set [applies LCM settings to nodes]

DscConfigurationStatus

Get
[date about completed configuration runs]



PowershellGet

Script

Install / Find / Save
Publish / Update
[loc->onl gallry]
Uninstall
Update-(...)FileInfo
New-(...)FileInfo
[cr script fL w/metdat]
Test-(...)FileInfo
[vald scrp cmt blk]
Update-(...)FileInfo
Get-Installed(...)

Module

Install / Uninstall
[dLInstall from onL]
Update [dLInst nwest]
Find [onL, criteria]
Save [loc, no Inst]
Publish [loc-> onLgaL]

Update-(...)Manifest
[file]

Get-Installed(...)

PSRepository

Get / Register /
Unregister
Set
[vals for registered:]

[Misc]

Find-cmmd [inMdL]
Find-DscResource
Find-RoleCapability

PSReadline

PSReadlineKeyHandler

Get [key bindings for PSRdL module]
Set [binds keys to user-def or PSRdL provided key handlers]
Remove [a key binding]

PSReadlineOption

Get [vals for cfgble options]
Set [cstmz behavior of cmd line editing in PSRdL]