Job Infrastructure Enhancements

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Job Changes

New Job Definitions and Types
- Scheduled Job
- PSWorkFlow Job

Workflow jobs can be suspended and resumed

Import PSScheduledJobs and PSWorkflow modules to work with new types

Note Help for job cmdlets in v2 will show v3 parameters, but they can't be used

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Get-Job

New Childjob parameters
- -ShowChildJob
- -ChildJobState

Get jobs by date
- Get jobs that finished -After a date and time
- Get jobs that finished -Before a date and time
- PS C:\> get-job -IncludeChildJob -Newest 5 | Select Name,Location,State,*time

Get jobs by filter
- Only works on scheduled and workflow jobs
- PS C:\> get-job -filter @{location="CHI-DC03"}

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Start-Job

Start jobs using a specific PowerShell version
(-PSVersion)

Start jobs with a definition name or path
- `PS C:\> start-job -DefinitionName "Download PowerShell v3 Help"`

Start jobs by their type
- PSScheduledJob
- PSWorkflow

Receive-Job

Wait for job results
- Completed, Failed, Stopped, Suspended, or Disconnected
- Useful for jobs with multiple childjobs

Auto remove jobs from queue after receiving results

Include Job in results
- Must use –Wait
- Cannot use -Keep

Managing Jobs with a Filter

| Get-Job | Wait-Job | Stop-Job | Remove-Job |

Use a hash table of job properties and values

- `PS C:\> remove-job -filter @{command='Update-FileData';location="CHI-DC03"} –whatif`

New Job Feature Demo

Summary

– New job infrastructure may require re-thinking how you use PowerShell

– Read help and examples

– When managing scheduled jobs, don't forget the PSScheduledJobs module