

PowerShell Job? PowerShell only lets you run one command at a time Long running commands will "tie-up" your prompt Send long running commands and scripts to the background Retrieve results when you want

PowerShell Job Architecture

PowerShell jobs use the remoting infrastructure

Jobs consist of one parent or executive job

...and then 1 or more child jobs

The parent coordinates the work of the children

We generally use the Job cmdlets with the parent iob

PowerShell 3 has several job types. This lesson is on background jobs

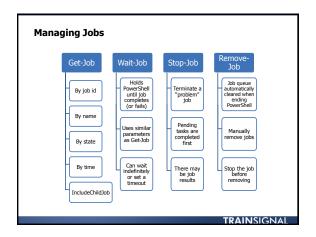
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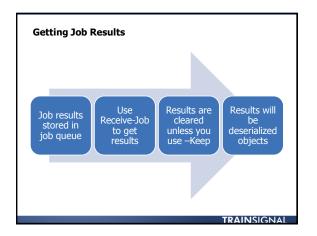
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Creating a Background Job Use StartJob cmdlet Use StartJob cmdlet - AsJob Parameter - Creating a Background Job - Access local resources - Run a PowerShell scriptlock - Run a Po

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Creating PowerShell Jobs





Troubleshooting Failed Jobs

A failed job may still have results

Sometimes the error will be returned with results

Job object has a JobStateInfo object with a

Reason property which can explain why a job
failed

PS C:\> (get-job 41).JobStateInfo.reason.message Access is denied. (Exception from HRESULT: 0x80070005 (E_ACCESSDENIED))

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Using PowerShell Jobs

Running Jobs on Remote Computers

Normally when using Invoke-Command, job queue is local but command runs remotely

- Results written to local job queue

Remote jobs run everything on the remote computer

- Useful for scaling out
- Requires the use of a maintained PSSession
- Run job cmdlets in the remote session

PS C:\> invoke-command { start-job
{MyCommand}} -Session \$sess

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Remote Job Demo

Lab

- 1. Create a local background job to find the latest 100 errors in the system event log. Then retrieve the results.
- 2. Run a remote command to get the size of the \$env:temp folder on one or more remote computers, or specify your computer name and localhost. But do this as a local background job. Retrieve the results.

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