

Powershell + psExec

Launching Powershell Remotely via psExec

From Powershell: Launch Powershell Remotely via psExec

```
driveletter:\somepath\psexec.exe \\hostname cmd /c 'echo . | powershell.exe -command "$env:PROCESSOR_ARCHITECTURE; exit 100"'
```

From CMD: Launch Powershell Remotely via psExec

```
powershell.exe -command "& {driveletter:\somepath\psexec\psexec.exe \\hostname cmd /c 'echo . | powershell.exe -command "$env:PROCESSOR_ARCHITECTURE; exit 100"'}"
```

Case Use:

Remotely Stop an IIS Application Pool

```
powershell.exe -command "& {driveletter:\somepath\psexec.exe \\hostname cmd /c 'echo . | powershell.exe -command "set-executionpolicy Bypass -scope Process;Import-Module WebAdministration;Stop-WebAppPool -Name "MyAppPool"; exit 100"'}"
```

Opsview + Powershell

Powershell InvocationSyntax

The syntax for properly calling powershell scripts from the Opsview/NRPE agent is rather cryptic.

After much searching on the internets, this is the configuration syntax I found to work:

nsc.ini:

```
[nrpe handlers]
```

```
...
```

```
check_mycheck          =          cmd          /c          echo
DriveLetter:\Path\Folder\MyScript.ps1; exit($lastexitcode) |
powershell.exe -command -
```

Sources

Description	URL	Notes Check mit Powershell	http://www.monitoring-portal.org/web/index.php?page=Thread&threadID=15923	This website was in (German?); Google Search: "nscclient"
<pre> .exe" "powershell" "socket timeout after" Nagios -- check_veeam </pre>	https://www.angryadmin.co.uk/?tag=nagios	Google Search: "nscclient"		
<pre> .exe" "\$lastexitcode" Returning Exit Code from Script </pre>	http://powershell.com/cs/blogs/tips/archive/2009/05/18/returning-exit-code-from-script.aspx	Google Search: bat exit /b errorlevel Mailbox Health 2007.ps1	http://exchange.nagios.org/directory/Plugins/Email-and-Groupware/Microsoft-Exchange/Mailbox-Health-2007-2Eps1/details	Google Search: "nagios" "powershell" "exit code"

Automating IIS

This Article presents some examples of automating IIS using PowerShell and the appcmd.exe tool

References I used

Title	URL IIS AppCmd Quick Reference	https://github.com/jzbrzski/OrchardBotstrap/blob/master/OrchardBotstrap.ps1	PowerShell Snap-It	http://www.iis.net/learn/manage/powershell/powershell-snap-in-creating-web-sites-web-applications-virtual-directories-and-application-pools
	http://blogs.sdsu.com/bruceh/archive/2012/04/23/iis-appcmd-quick-reference.aspx			

PowerShell Commands

This applies to my environment: Before you can utilize PowerShell commands for IIS automation, you'll need to ensure two things:

- PowerShell Script Execution is allowed for your session

```
[code language="powershell"]Set-Executionpolicy Bypass -Scope Process[/code]
```

- IIS Web Administration PowerShell module is properly loaded

```
[code language="powershell"]Import-Module WebAdministration[/code]
```

In the following end-to-end scenario we will execute the following steps:

- Create new Application Pool
- Create a new site
- Create a new application
- Assign the newly created Application to the Newly Created AppPool
- Create two virtual directories
- Assign permissions to these virtual directories

No.	Action	Command Create an IIS AppPool named MyAppPool	New-Item AppPools\MyAppPool Create an IIS Site named MySite with a physical path of C:\MySite	New-Item IIS:\Sites\MySite -bindings @(protocol="http";bindingInformation="*:80:MySite") -physicalPath C:\MySite Create an IIS Application named MyApplication with a physical path of C:\MySite\MyApplication	New-Item "IIS:\Sites\MySite\MyApplication" -physicalPath C:\MySite\MyApplication -type Application Modify Application - Set AppPool for MyApplication to MyAppPool	Set-ItemProperty "IIS:\Sites\MySite\MyApplication" -name ApplicationPool -value MyAppPool Create a Virtual Directory MyVirtualDirectory under MySite\MyApplication pointing to C:\MySite\MyApplication\MyVirtualDirectory	New-Item "IIS:\Sites\MySite\MyApplication\MyVirtualDirectory" -type VirtualDirectory -physicalPath "C:\MySite\MyApplication\MyVirtualDirectory" Assign permissions for MyApplication\MyVirtualDirectory	\$file = \$(get-item "IIS:\Sites\MySite\MyApplication\MyVirtualDirectory") \$sdcl = \$file.GetAccessControl() \$newRule = New-Object Security.AccessControl.FileSystemAccessRule "BUILTIN\IIS_IUSRS", Write, Allow \$sdcl.ModifyAccessRule("Add", \$newRule, [ref]\$modified) \$file.SetAccessControl(\$sdcl) \$file.GetAccessControl().GetAccessRules(\$true, \$true, [System.Security.Principal.NTAccount])
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Additional Commands

Action	Command Copy IIS AppPool MyAppPool to MyNewAppPool forcing overwrite	Copy IIS:\AppPools\MyAppPool -force Remove the site	Remove-Item IIS:\Sites\MySite Copy IIS Application MyApplication to MyNewApplication forcing overwrite	Copy "IIS:\Sites\MySite\MyApplication" -force Start IIS MySite	Start-WebItem "IIS:\Sites\MySite" Stop IIS MySite	Stop-WebItem "IIS:\Sites\MySite" Start IIS Application Pool	Start-WebAppPool -Name "MyAppPool" Stop IIS Application Pool	Stop-WebAppPool -Name "MyAppPool" Get Application Pool Status	Get-WebAppPoolState \$appPoolName
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Note:For the sake of example: Application Pool Name is MyAppPool and Site Name is MySite

IIS AppCmd Quick Reference

Action	Command	AppCmd.exe /add /apppool: Name: MyAppPool PhysicalPath: C:\MySite\MyAppPool StartName: LocalSystem	AppCmd.exe /add /site: Name: MySite PhysicalPath: C:\MySite Bindings: http://*:80/	AppCmd.exe /add /application: Name: MyApplication PhysicalPath: C:\MySite\MyApplication AppPool: MyAppPool	AppCmd.exe /start /site: Name: MySite	AppCmd.exe /stop /site: Name: MySite	AppCmd.exe /start /apppool: Name: MyAppPool	AppCmd.exe /stop /apppool: Name: MyAppPool	AppCmd.exe /start /application: Name: MyApplication	AppCmd.exe /stop /application: Name: MyApplication
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