

技術ノート KGTN 2016101902

現象

[Windows/PowerShell] PowerShell を使用して複数のリモートコンピューターでコマンドを実行し、その実行結果を得る方法は？

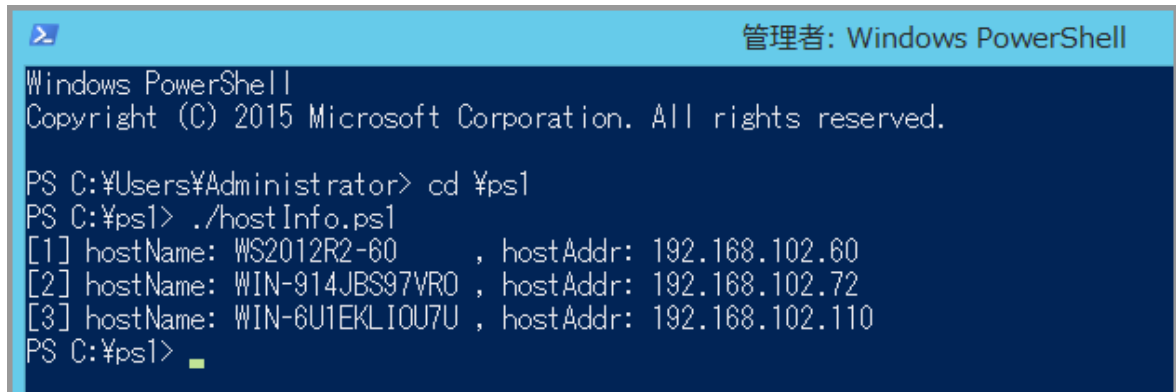
説明

以下に、各リモートコンピューターからコンピューター名と IP アドレス（文字列）を得るサンプルを示します。

```
$hostList = @("192.168.102.60","192.168.102.72","192.168.102.110")

Function hostInfo ($ipAddr)
{
    $hostName = [Net.Dns]::GetHostName()
    $hostAddr = [Net.Dns]::GetHostAddresses('.') | Where-Object -FilterScript { ($_.AddressFamily -Eq "InterNetwork") } | select -ExpandProperty IPAddressToString
    return "hostName: {0,-16}, hostAddr: {1,-16}" -f $hostName,$hostAddr
}

$ii = 0
ForEach($target In $hostList)
{
    $ret = Invoke-Command $target -ScriptBlock ${function:hostInfo} -ArgumentList $target
    ++$ii
    "[{0}] {1}" -f $ii,$ret
}
}
```



The screenshot shows a Windows PowerShell terminal window titled "管理者: Windows PowerShell". The prompt is "PS C:\Users\Administrator>". The user enters "cd %ps1", and the prompt changes to "PS C:\%ps1>". The user then enters ".\hostInfo.ps1". The script outputs three lines of host information:

```
[1] hostName: WS2012R2-60      , hostAddr: 192.168.102.60
[2] hostName: WIN-914JBS97VRO , hostAddr: 192.168.102.72
[3] hostName: WIN-6U1EKLI0U7U , hostAddr: 192.168.102.110
PS C:\%ps1>
```