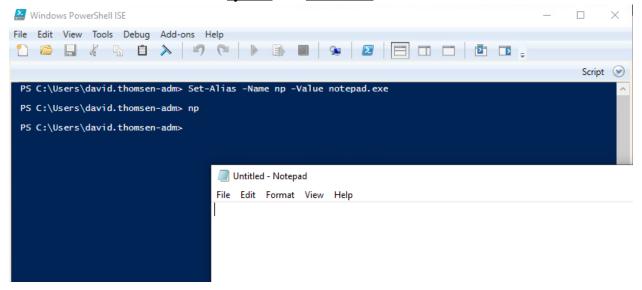
## David Thomsen SYS-255

Deliverable 1. Create and demonstrate your own alias **other than ifconfig**. Provide a screenshot of the alias creation <u>syntax</u> and <u>execution</u>.



Deliverable 2. Extend this script to ping each server in the list one time (the switch for ping count is different in Windows). Provide a screenshot showing the <u>syntax</u> and <u>output</u> of your script.

```
PS C:\Users\david.thomsen-adm> .\servers.ps1
champlain.edu
Pinging champlain.edu [208.115.107.132] with 32 bytes of data:
Reply from 208.115.107.132: bytes=32 time=79ms TTL=48
Ping statistics for 208.115.107.132:
    Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 79ms, Maximum = 79ms, Average = 79ms
vermont.gov
Pinging vermont.gov [199.107.32.35] with 32 bytes of data:
Reply from 199.107.32.35: bytes=32 time=40ms TTL=233
Ping statistics for 199.107.32.35:
    Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 40ms, Maximum = 40ms, Average = 40ms
Pinging mcsp.one [217.160.0.8] with 32 bytes of data:
Reply from 217.160.0.8: bytes=32 time=106ms TTL=50
Ping statistics for 217.160.0.8:
    Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 106ms, Maximum = 106ms, Average = 106ms
 servers - Notepad
File Edit Format View Help
```

```
servers - Notepad

File Edit Format View Help

$servers=Get-Content .\servers.txt

foreach($server in $servers)|

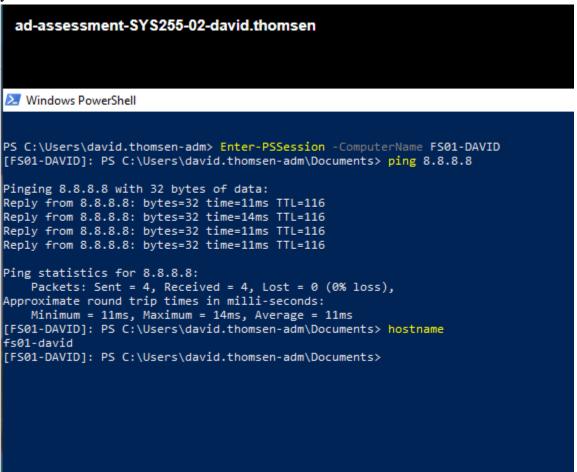
{
Write-Host $server

ping $server -n 1
}
```

Deliverable 3. Write a script that takes <u>two</u> parameters that include the DNS response Type and a file with a list of hosts. Your output should look similar to the following. You may need to conduct some research to see how to pass more than one parameter. Provide a screenshot of your syntax and execution output.

```
PS C:\Users\david.thomsen-adm> .\dns.ps1 .\servers.txt A
                                                   TTL
Name
                                                         Section
                                                                    IPAddress
                                             Type
champlain.edu
                                             Α
                                                    299
                                                         Answer
                                                                  208.113.167
199.107.32.35
217.160.0.8
                                                                    208.115.107.132
vermont.gov
                                             Α
                                                    26598 Answer
mcsp.one
                                             Α
                                                    1399 Answer
dns - Notepad
File Edit Format View Help
param(
[string] $listofthings,
[string] $type
foreach($thing in Get-Content $listofthings)
Resolve-DnsName $thing -Type "$type"
```

Deliverable 4. Provide a screenshot that shows a remote PS-Session and the command of your choice on FS01.



Deliverable 5. The following command shows how one can just launch a command remotely without having an interactive session. Explore the -ScriptBlock Option and provide a screenshot showing **your own command** launched on FS01.

```
PS C:\Users\david.thomsen-adm> Invoke-Command -ComputerName FS01-DAVID -ScriptBlock { hostname } fs01-david
```

Deliverable 6. Using Powershell on AD, figure out how to add a single user to Active Directory, and how to add that user to a domain group that you create. Provide a screenshot that shows the command syntax and execution w/ response.

```
PS C:\Windows\system32> New-ADUser
cmdlet New-ADUser at command pipeline position 1
Supply values for the following parameters:
Name: Dave
PS C:\Windows\system32> New-ADGroup
cmdlet New-ADGroup at command pipeline position 1
Supply values for the following parameters:
GroupScope: Global
Name: PeopleNamedDave
PS C:\Windows\system32> Add-ADGroupMember
cmdlet Add-ADGroupMember at command pipeline position 1
Supply values for the following parameters:
Identity: PeopleNamedDave
Members[0]: Dave
Members[1]:
PS C:\Windows\system32>
```

Deliverable 7: If you try the PS-Remoting commands against your workstation, it may fail due to firewall and other issues. Research the problem and see if you can resolve them. Take a screenshot of remote command invocation from AD to your workstation.

A Side Note: I was unsure of what this question was asking for entirely and after getting just about 8,000 errors after a long day I have stopped attempting it for now and will ask in class tomorrow.