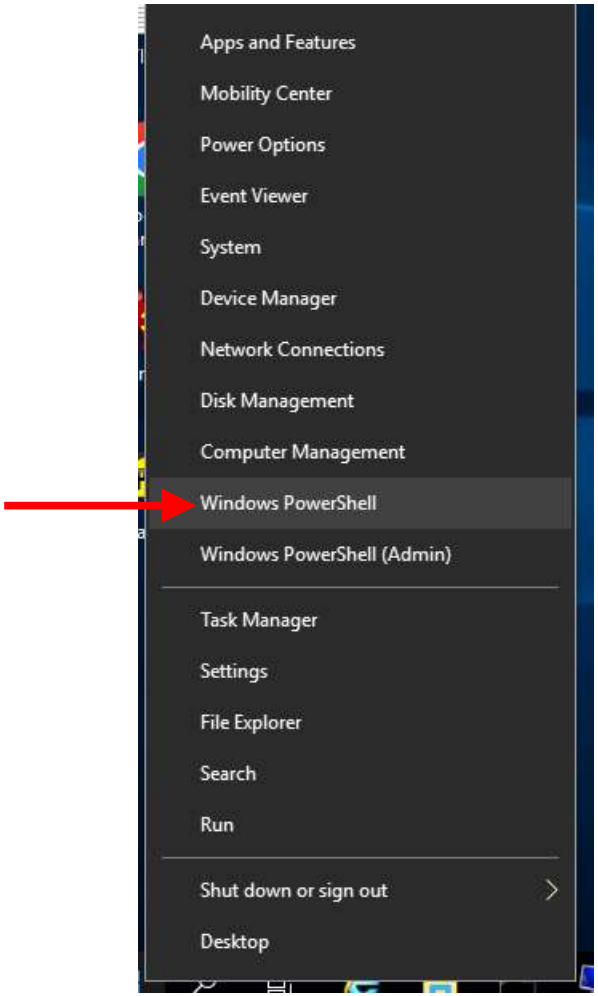
1) Right click on desktop windows start menu and select Powershell



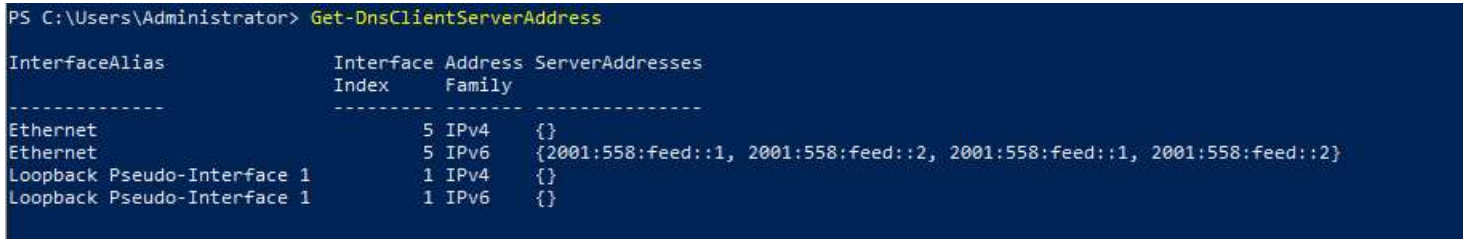
2) ipconfig /all to check under the hood

Here we see DHCP is enabled so we know dynamically assigned

```
PS C:\Users\Administrator> ipconfig /all

Windows IP Configuration

   Host Name . . . . . . . . . . . . : WIN-KG868O40KOB
   Primary Dns Suffix  . . . . . . . :
   Node Type . . . . . . . . . . . . : Hybrid
   IP Routing Enabled. . . . . . . . : No
   WINS Proxy Enabled. . . . . . . . : No
   DNS Suffix Search List. . . . . . : hsd1.co.comcast.net

Ethernet adapter Ethernet:

   Connection-specific DNS Suffix  . : hsd1.co.comcast.net
   Description . . . . . . . . . . . : Intel(R) PRO/1000 MT Desktop Adapter
   Physical Address. . . . . . . . . : 08-00-27-B0-65-65
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes
   IPv6 Address. . . . . . . . . . . : 2601:281:d87e:6aa0::56a(Preferred)
   Lease Obtained. . . . . . . . . . : Wednesday, February 14, 2024 8:22:30 AM
   Lease Expires . . . . . . . . . . : Sunday, February 18, 2024 12:49:55 AM
   IPv6 Address. . . . . . . . . . . : 2601:281:d87e:6aa0:a066:22c9:f2f1:9f2e(Preferred)
   Link-local IPv6 Address . . . . . : fe80::dfdc:64db:3713:56e0%5(Preferred)
   IPv4 Address. . . . . . . . . . . : 10.0.0.15(Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Lease Obtained. . . . . . . . . . : Thursday, February 15, 2024 10:22:57 AM
   Lease Expires . . . . . . . . . . : Saturday, February 17, 2024 10:22:56 AM
   Default Gateway . . . . . . . . . : fe80::82da:c2ff:fe91:35d7%5
                                       10.0.0.1
   DHCP Server . . . . . . . . . . . : 10.0.0.1
   DHCPv6 IAID . . . . . . . . . . . : 84410407
   DHCPv6 Client DUID. . . . . . . . : 00-01-00-01-2D-3C-C7-8C-08-00-27-B0-65-65
   DNS Servers . . . . . . . . . . . : 2001:558:feed::1
                                       2001:558:feed::2
                                       75.75.75.75
                                       75.75.76.76
                                       2001:558:feed::1
                                       2001:558:feed::2
   NetBIOS over Tcpip. . . . . . . . : Enabled
```

3) Next I opted to check my DNS which was being automatically assigned as we see here with an Interface Index of 5. The Interface Index is currently automatically assigned but we can assign this. However, in this instance it is unnecessary. It tells Windows how to prioritize but we only have the one so it isn't necessary.

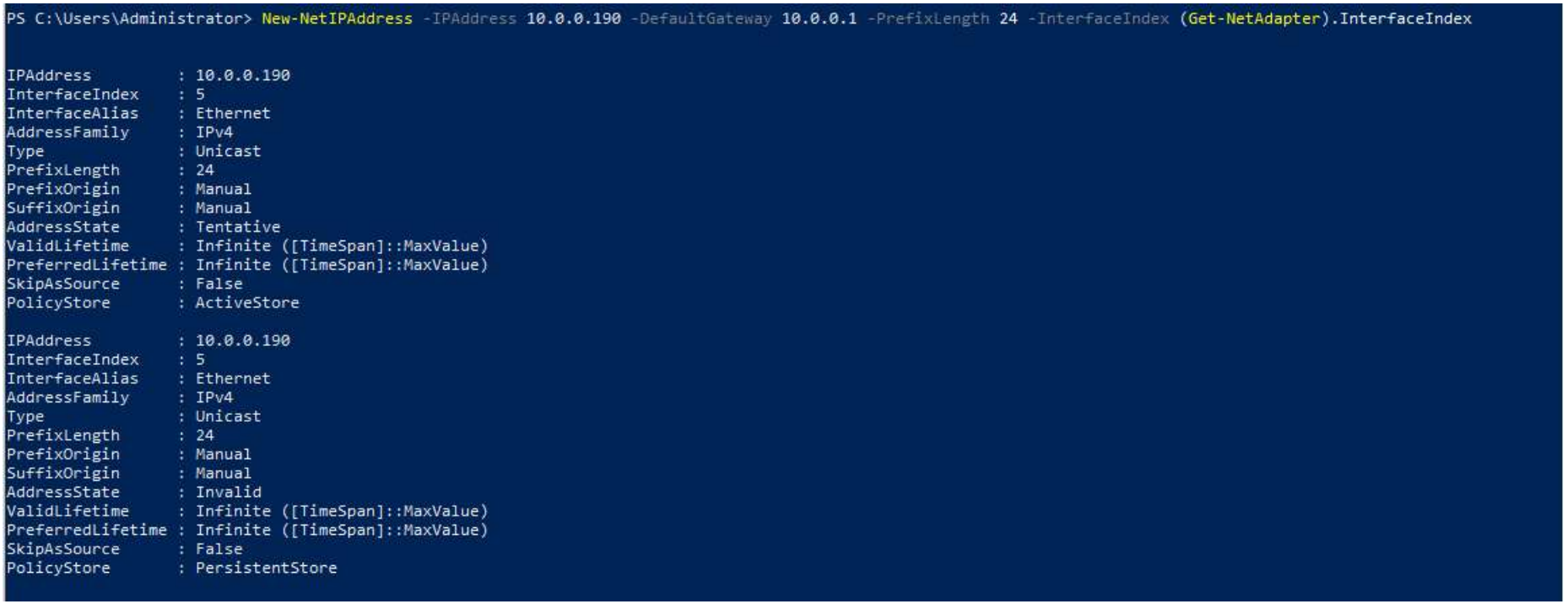
Input: Get -DnsClientServerAddress



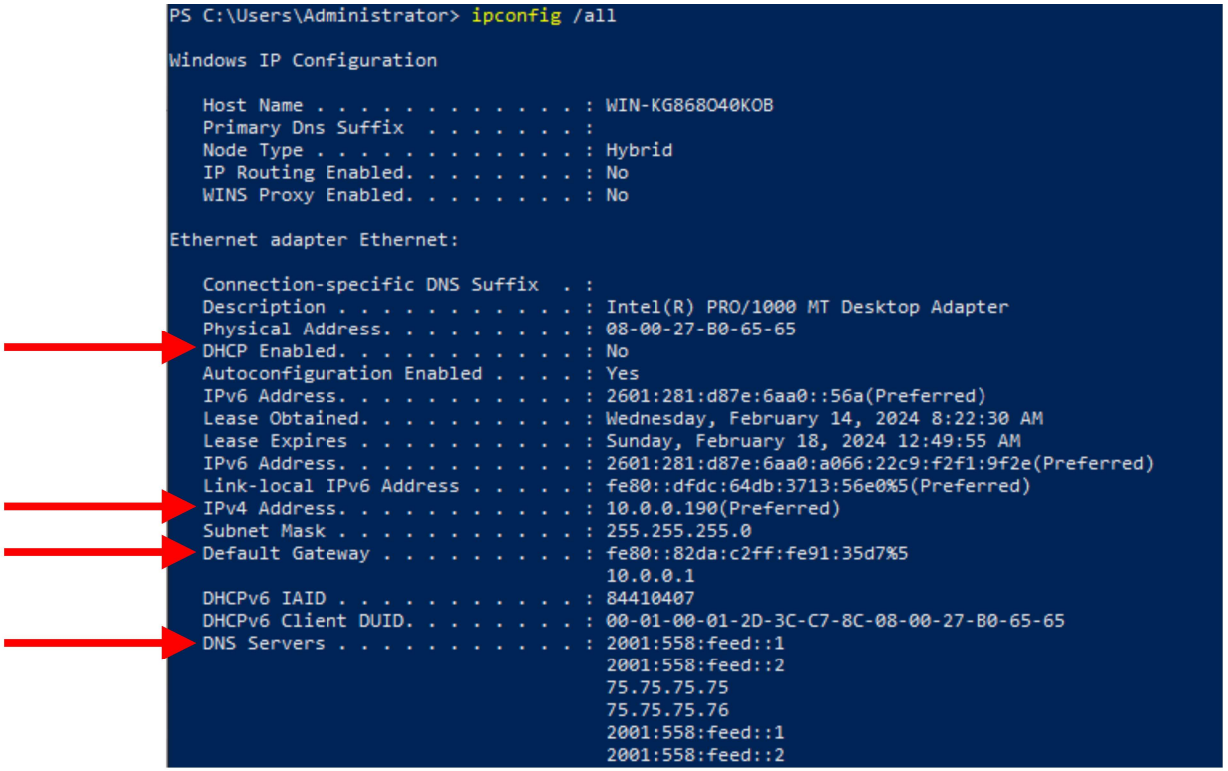
To assign we then input: Set -DnsClientServerAddress -InterfaceIndex 5 -ServerAddresses ("75.75.75.75","75.75.75.76")

4) Next we will assign a static IP. Prior to this you may want to use arp -a to avoid any potential IP conflicts (reference prior assignments)

Input: New-NetIPAddress -IPAddress 10.0.0.190 -DefaultGateway 10.0.0.1 -PrefixLength 24 -InterfaceIndex (Get-NetAdapter).InterfaceIndex

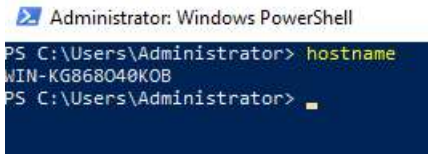


5) Lets confirm everything took with ipconfig /all

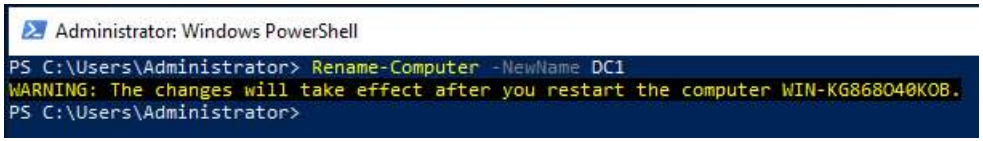


6) Now we should change the hostname for help of organization

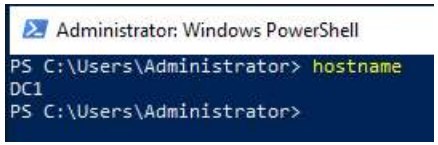
We check with the cmdlet: hostname



Then to change input Rename-Computer -NewName DC1

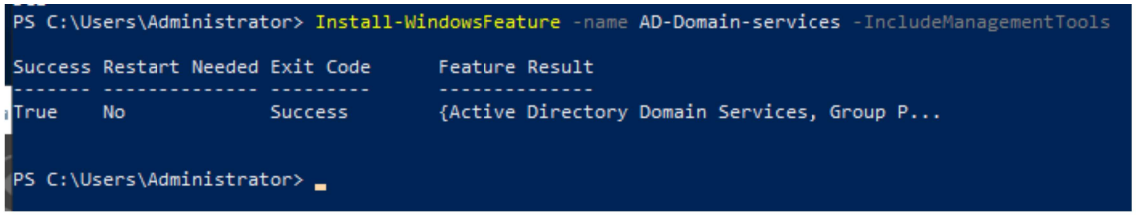


It will need to restart to take and then we confirm with inputting hostname one more time



7) To install Active Directory we next input

Install-WindowsFeature -name AD-Domain-services -IncludeManagementTools

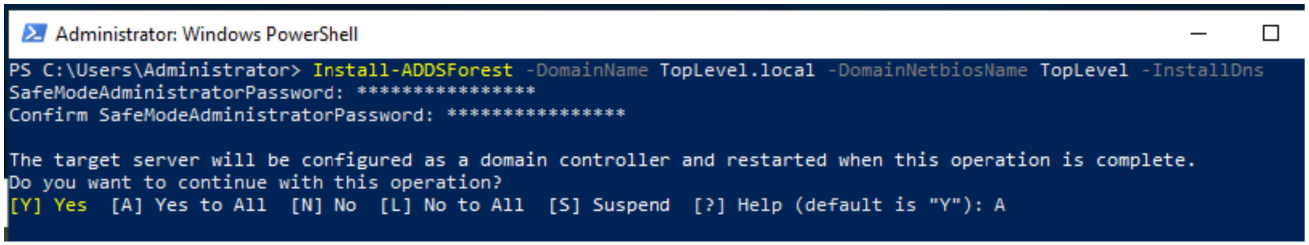


Upon success we then input the following to complete the install of AD

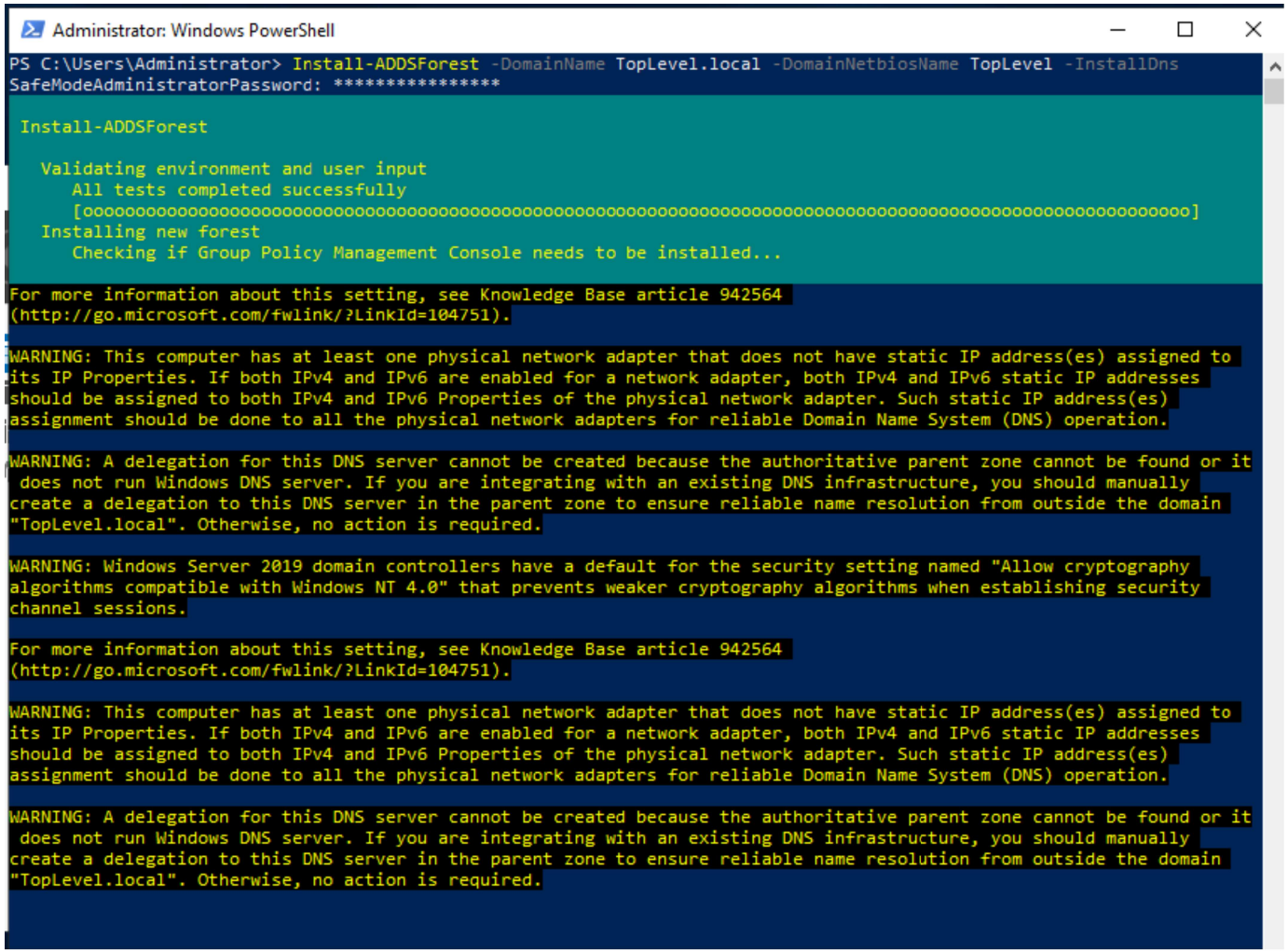
Install-ADDSForest -DomainName TopLevel.local -DomainNetbiosName TopLevel -InstallDns

Note: TopLevel.local and TopLevel are what I chose to use in this example yours will reflect what you choose based off your requirements/need.

Then you will input the restore password which must be different then your administrator, followed by “A” to continue with install saying yes to all



8) The install is now underway and when complete it will restart and update settings



9) Once complete you should now notice your domain when you go to login