

<#

.SYNOPSIS

Configures network settings for NIC1 on Windows Server 2019.

.DESCRIPTION

This function assigns specific IPv4 settings to NIC1 on Windows Server 2019, including IP address, subnet mask, gateway, DNS, and disables IPv6.

.PARAMETER ThirdOctet

The desired third octet for the IP address, gateway, and DNS for NIC1.

.EXAMPLE

```
Set-NIC1NetworkSettings -ThirdOctet 30
```

.INPUTS

[int] ThirdOctet

.OUTPUTS

None

#>

```
function Set-NIC1NetworkSettings {  
    param (  
        [int]$ThirdOctet  
    )  
  
    # Validate input parameter  
    if (-not $ThirdOctet) {  
        throw "The ThirdOctet parameter is required"  
    }  
  
    # Ensure the subnet mask is fixed at "255.255.255.128"  
    $SubnetMask = "255.255.255.128"  
  
    # Formulate the full IP address, gateway, and DNS using the provided third octet  
    $IPAddress = "192.168.$ThirdOctet.30"  
    $Gateway = "192.168.$ThirdOctet.1"  
    $DNS = "192.168.$ThirdOctet.10"  
  
    # Disable IPv6 on NIC1  
    Set-NetAdapterBinding -Name "NIC1" -ComponentID ms_tcpip6 -Enabled $false  
  
    # Set IPv4 settings for NIC1  
    $nic1 = Get-NetAdapter -Name "NIC1"
```

```
$nic1 | Set-NetIPAddress -IPAddress $IPAddress -PrefixLength 25
```

```
$nic1 | Set-NetIPInterface -InterfaceMetric 10
```

```
$nic1 | Set-DnsClientServerAddress -ServerAddresses $DNS
```

```
# Set default gateway for NIC1
```

```
$route = New-NetRoute -DestinationPrefix "0.0.0.0/0" -InterfaceAlias "NIC1" -NextHop  
$Gateway -RouteMetric 10
```

```
# Display a summary of the changes made
```

```
Write-Host "IPv4 settings for NIC1 network adapter have been set to IP Address: $IPAddress  
SubnetMask: $SubnetMask Gateway: $Gateway and DNS: $DNS."
```

```
# Prompt the user to press Enter to exit
```

```
Read-Host "Press Enter to exit."
```

```
}
```

```
# Usage example
```

```
Set-NIC1NetworkSettings -ThirdOctet 30
```