Powershell get AD info

The system requirements for Exchange Server 2013 include the following for Active Directory:

- Forest and domain functional level of Windows Server 2003 or higher (up to Windows Server 2012 R2 is supported with Exchange Server 2013 SP1 or later)
- Schema Master running Windows Server 2003 SP2 or later
- At least one global catalog server in each Active Directory site where Exchange 2013 will be installed that runs Windows Server 2003 SP2 or higher

Using PowerShell we can retrieve all of this information quickly.

Here is a script that breaks a whole lot of PowerShell “rules” but gets the job done.

The script requires the ActiveDirectory PowerShell module, and in a multi-domain forest should be run in the forest root domain with an admin account that can access each domain.

Get-ADInfo.ps1

```
<#
.SYNOPSIS
Get-ADInfo.ps1 - PowerShell script to collect Active Directory
information
.DESCRIPTION
This PowerShell Script collects some basic information about an Active
Directory
environment that is useful for verifying the pre-requisites for an
Exchange
Server deployment or upgrade.
.OUTPUTS
Results are output to the console and to a HTML file.
.EXAMPLE
.\Get-ADInfo.ps1
Runs the script and generates the output.
.NOTES
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For more Exchange Server tips, tricks and news
check out Exchange Server Pro.
* Website:  http://exchangeserverpro.com
* Twitter:  http://twitter.com/exchservpro
Change Log
V1.00, 26/06/2015 - Initial version
#>

#requires -version 2
```

```
$htmlreport = $null
$htmlbody = $null
$htmlfile = "ADInfo.html"
$spacer = "<br />"

Import-Module ActiveDirectory

#---------------------------------------------------------------------
# Collect AD Forest information and convert to HTML fragment
#---------------------------------------------------------------------

$forest = Get-ADForest

$htmlbody += "<h3>Forest Details</h3>"

$forestinfo = New-Object PSObject

Write-Host -ForeGroundColor Yellow "*** Forest: $($forest.RootDomain)
***"
Write-Host ""
$forestinfo  | Add-Member NoteProperty -Name "Forest" -Value
$($forest.RootDomain)

Write-Host "Forest Mode: $($forest.ForestMode)"
$forestinfo  | Add-Member NoteProperty -Name "Forest Mode" -Value
$($forest.ForestMode)

Write-Host "Schema Master: $($forest.SchemaMaster)"
$forestinfo  | Add-Member NoteProperty -Name "Schema Master" -Value
$($forest.SchemaMaster)

Write-Host "Domain Naming Master: $($forest.DomainNamingMaster)"
$forestinfo  | Add-Member NoteProperty -Name "Domain Naming Master" -
Value $($forest.DomainNamingMaster)

Write-Host "Additional UPN Suffixes: $($forest.UPNSuffixes)"
$forestinfo  | Add-Member NoteProperty -Name "Additional UPN Suffixes"
-Value $($forest.UPNSuffixes)

$htmlbody += $forestinfo | ConvertTo-Html -Fragment
$htmlbody += $spacer

#---------------------------------------------------------------------
# Collect AD Domain information and convert to HTML fragment
#---------------------------------------------------------------------

$htmlbody += "<h3>Domain Details</h3>"

$domains = @($forest | Select -ExpandProperty:Domains)
```

```
Foreach ($domain in $domains)
{
    Write-Host ""
    Write-Host -ForeGroundColor Yellow "*** Domain: $domain ***"
    Write-Host ""

    $domaindetails = Get-ADDomain $domain

    $domaininfo = New-Object PSObject

    $domaininfo | Add-Member NoteProperty -Name "Name" -Value
$domaindetails.Name

    Write-Host "NetBIOS Name: $($domaindetails.NetBIOSName)"
    $domaininfo | Add-Member NoteProperty -Name "NetBIOS Name" -Value
$domaindetails.NetBIOSName

    Write-Host "Domain Mode: $($domaindetails.DomainMode)"
    $domaininfo | Add-Member NoteProperty -Name "Mode" -Value
$($domaindetails.DomainMode)

    Write-Host "PDC Emulator: $($domaindetails.PDCEmulator)"
    $domaininfo | Add-Member NoteProperty -Name "PDC Emulator" -Value
$($domaindetails.PDCEmulator)

    Write-Host "Infrastructure Master:
$($domaindetails.InfrastructureMaster)"
    $domaininfo | Add-Member NoteProperty -Name "Infrastructure Master"
-Value $($domaindetails.InfrastructureMaster)

    Write-Host "RID Master: $($domaindetails.RIDMaster)"
    $domaininfo | Add-Member NoteProperty -Name "RID Master" -Value
$($domaindetails.RIDMaster)

    $htmlbody += $domaininfo | ConvertTo-Html -Fragment
    $htmlbody += $spacer

}

$htmlbody += "<h3>Global Catalog Servers by Site/OS</h3>"

$domaincontrollers = @(Get-ADDomainController -Filter {IsGlobalCatalog
-eq $true})

$gcs = @($domaincontrollers | Group-Object -
Property:Site,OperatingSystem | Select @{Expression="Name";Label="Site,
OS"},Count)

Write-Host ""
Write-Host -ForeGroundColor Yellow "*** Global Catalogs by Site/OS ***"
```

```
$gcs = $gcs | Sort "Site, OS"
$gcs | ft -auto

$htmlbody += $gcs | ConvertTo-Html -Fragment


Write-Verbose "Producing HTML report"

$reportime = Get-Date

#Common HTML head and styles
$htmlhead="<html>
            <style>
            BODY{font-family: Arial; font-size: 8pt;}
            H1{font-size: 20px;}
            H2{font-size: 18px;}
            H3{font-size: 16px;}
            TABLE{border: 1px solid black; border-collapse: collapse;
font-size: 8pt;}
            TH{border: 1px solid black; background: #dddddd; padding:
5px; color: #000000;}
            TD{border: 1px solid black; padding: 5px; }
            td.pass{background: #7FFF00;}
            td.warn{background: #FFE600;}
            td.fail{background: #FF0000; color: #ffffff;}
            td.info{background: #85D4FF;}
            </style>
            <body>
            <h1 align=""center"">Active Directory Information</h1>
            <h3 align=""center"">Generated: $reportime</h3>"

$htmltail = "</body>
        </html>"

$htmlreport = $htmlhead + $htmlbody + $htmltail

$htmlreport | Out-File $htmlfile -Encoding Utf8
```

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