# 3-3-5:每周巡检-统计每周邮件收发并输出HTML

#### 作者简介

曾垂鑫,毕业于中国人民大学商务管理专业。微软(2013-2017五届)MVP,具有丰富的项目实施和解决方案经验,51CTO传媒推荐博客、博客之星,微软MCP/MCTS/MCITP/MCSA/MCSE认证系统专家和解决方案顾问。

属于实战派的讲师,具备丰富的万人规模以上企业的运维圣验。课程内容侧重于实战实用。

曾垂鑫的博客地址: http://543925535.blog.51cto.com/

曾垂鑫的课程地址: http://edu.51cto.com/lecturer/index/user\_id-639838.html

课程后续会形成完善的Windows运维工程师路线图,涵盖企业常用的Windows平台运维技术,后期课程包括但不限于AD、Exchange、Windows、System Center、Powershell、Hyper-v、Office 365等。

## 脚本内容

<#

.信息

\_\_\_\_\_\_

Created with: 曾垂鑫

Created on: 2017/2/24 2:12

Created by: Organization:

Filename:检查邮件队列

\_\_\_\_\_\_

### .DESCRIPTION

暂时没有。

#>

#导入exchange server的管理模块

Add-PSSnapin \*exchange\*

#设置电子邮件配置文件

#### #设置电子邮件报告的接收人

\$users = "administrator@contoso.com";

#\$users = "You@company.com"

#\$users = "you@company.com", "manager@company.com", "etc@company.com";

### #设置HTML报告初始化值

\$diskReport=\$null

\$reportPath=\$null

\$reportName=\$null

### #HTML报告配置文件信息

#指定输出的HTML报告的保存位置

\$reportPath = "c:\PS";

### #指定输出的HTML报告的保存名称

\$reportName = "\邮件收发统计\$(get-date -format ddMMyyyy).html";

#将报告保存位置和报告保存名称合并到diskreport变量

```
$diskReport = $reportPath + $reportName
If (Test-Path $diskReport)
   Remove-Item $diskReport
 }
$Daysback = "-7"
$CurrentDate = Get-Date;
$DateToDelete = $CurrentDate.AddDays($Daysback);
Get-ChildItem $reportPath | Where-Object { $_.LastWriteTime -It $DatetoDelete } | Remove-Item;
#创建并编写HTML的头部信息
$titleDate = get-date -uformat "%m-%d-%Y - %A"
$header = "
 <html>
 <head>
 <meta http-equiv='Content-Type' content='text/html; charset=GBK'>
 <title>邮件收发情况</title>
 <STYLE TYPE='text/css'>
 <!--
td {
 font-family: Tahoma;
 font-size: 11px;
 border-top: 1px solid #999999;
 border-right: 1px solid #999999;
 border-bottom: 1px solid #999999;
 border-left: 1px solid #999999;
 padding-top: 0px;
 padding-right: 0px;
 padding-bottom: 0px;
 padding-left: 0px;
body {
 margin-left: 5px;
 margin-top: 5px;
 margin-right: 0px;
 margin-bottom: 10px;
 table {
 border: thin solid #000000;
}
 </style>
 </head>
 <body>
 <font face='tahoma' color='#003399' size='4'><strong>邮件收发情况巡检报告 for $titledate</strong></font>
```

```
Add-Content $diskReport $header
# 创建并编写HTML报告的表格头部
$tableHeader = "
星期
 日期
 发送数量
发送大小(GB)
接收数量
接收大小(GB)
#将表格头部信息追加到diskreport
Add-Content $diskReport $tableHeader
#下面是统计本周邮件收发的脚本正文部分,定义变量的初始值
$ErrorActionPreference = "SilentlyContinue"
tab2 = null
$tabInfo = $null
$dataRow = $null
$strEmails1 = $null
[String]$strEmails2 = $null
[String]$strEmails = $null
[Int64]$intSent = $intRec = 0 #定义发送数量和接收数量的初始值为0
[Int64] $intSentSize = $intRecSize = 0 #定义发送大小和接收大小的初始值为0
#定义邮件收发的统计周期
$From = (Get-Date).AddDays(-7) #统计过去几天的收发情况
$To = $From.AddDays(1)
Write-Host "DayOfWeek, Date, Sent, Sent Size (GB), Received, Received Size (GB)" - ForegroundColor Yellow
Do
 #创建保存每日邮件收发数量的变量
 #定义日期格式
 $strEmails1 = "$($From.DayOfWeek),$($From.ToShortDateString())," #定义日期格式
 [String]$strEmails = "$($From.DayOfWeek)"
 [String]$strEmails2 = "$($From.ToShortDateString())"
 [Int64]$intSent = $intRec = 0 #定义发送数量和接收数量的初始值为0
 [Int64] $intSentSize = $intRecSize = 0 #定义发送大小和接收大小的初始值为0
 #统计邮件每日收发总数的命令部分
 Get-TransportService | `
```

#将HTML头部信息追加回diskreport里面

```
Get-MessageTrackingLog -ResultSize Unlimited -Start $From -End $To | ForEach {
   #发送邮件情况
   If ($_.EventId -eq "RECEIVE" -and $_.Source -eq "STOREDRIVER")
{
 $intSent++
 $intSentSize += $_.TotalBytes
}
   #接收邮件情况
   If ($_.EventId -eq "DELIVER")
 $intRec += $_.RecipientCount
 $intRecSize += $_.TotalBytes
}
 }
$intSentSize = [Math]::Round($intSentSize/1GB, 0)
$intRecSize = [Math]::Round($intRecSize/1GB, 0)
 #屏幕直接輸出
 $strEmails1+="$intSent,$intSentSize,$intRec,$intRecSize"
 $strEmails1
 $tab2 = "
 $strEmails
   $strEmails2
   $intSent
 $intSentSize
 $intRec
 $intRecSize
 Add-Content $diskReport $tab2
 $From = $From.AddDays(1)
 $To = $From.AddDays(1)
 }
While ($to -It (Get-Date))
#停止条件
#报表结尾
$tableDescription = ""
Add-Content $diskReport $tableDescription
Add-Content $diskReport "</body></html>"
#如果diskreport报表不为空的话,则发送电子邮件
```

```
if ($diskReport -ne "")
{
    foreach ($user in $users)
}

Write-Host "正在发送电子邮件通知到 $user"

$smtpServer = "172.168.1.10"
$smtp = New-Object Net.Mail.SmtpClient($smtpServer)
$msg = New-Object Net.Mail.MailMessage
$msg.To.Add($user)
$msg.From = "PScript@contoso.com"

$msg.Subject = "[系统组每周巡检]本周邮件收发情况报告 for $titledate"
$msg.IsBodyHTML = $true
$msg.Body = get-content $diskReport

$smtp.Send($msg)
$body = "磁盘巡检情况"
}
}
```

#### 执行结果

### 1)屏幕输出

```
DayOf Week, Date, Sent, Sent Size (MB), Received, Received Size (MB)
Friday, 2017/4/14, 287, 0, 0, 0
Saturday, 2017/4/15, 288, 0, 0, 0
Sunday, 2017/4/16, 288, 0, 0, 0
Monday, 2017/4/17, 288, 0, 0, 0
Tuesday, 2017/4/18, 288, 0, 0, 0
Wednesday, 2017/4/19, 288, 0, 0, 0
Thursday, 2017/4/20, 288, 0, 3, 0
正在发送电子邮件通知到 administrator@contoso.com
```

### 2)邮件输出HTML

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[系统组每周巡检]本周邮件收发情况报告 for 04-21-2017 - 星期五

邮件收发情况巡检报告 for 04-21-2017 - 星期五					
星期	日期	发送数量	发送大小 (GB)	接收数量	接收大小 (GB)
Friday	2017/4/14	287	0	0	0
Saturday	2017/4/15	288	0	0	0
Sunday	2017/4/16	288	0	0	0
Monday	2017/4/17	288	0	0	0
Tuesday	2017/4/18	288	0	0	0
Wednesday	2017/4/19	288	0	0	0
Thursday	2017/4/20	288	0	3	0

### 扩展内容

PowerShell-Exchange:统计每天邮件收发-曾垂鑫的技术专栏-51CTO技术博客

http://543925535.blog.51cto.com/639838/1745720