Intrusion Analysis Using Windows PowerShell

Michael Weeks
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GIAC (GCIA) Gold Certification

Author: Michael J. Weeks, mweeks9989@gmail.com
Advisor: Angel Alonso-Parrizas

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Abstract
Microsoft has continually evolved its technology and has introduced some tools that can be used for intrusion analysis. The Windows Advanced Firewall and custom Windows Event Logs are some examples but this paper focuses on a quantum leap forward: PowerShell. Many Analysts must use Windows as their main platform for analysis, and with PowerShell alone, they can perform many of their daily duties. PowerShell is not just an administration language: it can also perform regular expression pattern matching, check the integrity of network monitoring, parse and analyze security events and almost limitless potential other uses. In this paper, we will dive into a few of the many techniques and capabilities of these technologies.
1. Introduction

Microsoft during the late 90s and through the turn of the millennium was not held in high regard in terms to security. Microsoft stopped all development in 2002, and Bill Gates ushered in an era of what he called “Trustworthy Computing” (Callahan, 2014). He defined Trustworthy Computing as “computing that is as available, reliable and secure as electricity, water services and telephony” (Gates, 2012). These efforts have gone a long way to make Microsoft the largest client-side operating system on the planet (w3Schools.com, 2014). It is likely that an intrusion detection Analyst will be using a type of Microsoft Windows Operating System as his main workstation, as well as analyzing Microsoft Systems. In the past many tools were downloaded, with a focus on Linux power tools in order to properly perform analysis. Microsoft now provides tools as Microsoft Event Viewer and Windows Firewall, eliminating the need for other tools. Hence, intrusion analysis can be performed without downloading a lot of tools. One of the best tools that Microsoft created is PowerShell. PowerShell is full-featured scripting language that was built by Microsoft as an administration language on the .NET Framework. (TechNet, 2013). PowerShell offers much more than its predecessors: it has the ability to run all of the classic cmd.exe commands like the net.exe and netsh.exe and has all the com objects built-in so VB scripts can be upgraded to the superior PowerShell.

PowerShell as an analysis language can use the administrative capability to perform monitoring tasks of some of the other Microsoft Security technologies such as: Microsoft Windows Firewall, Active Directory, and Windows Event Logs. In order to take advantage of the monitoring capability of PowerShell, an Analyst will need to learn how to script and use programmatic logic, which in PowerShell is not difficult, although some of the nuances can be complicated.

2.1. PowerShell – working in the Shell

The first thing to learn when using a new tool is how to get familiar with it. If the system is at least Windows 7 Professional (and at the time of this paper they should be at...
a minimum), PowerShell comes pre-installed and is similar to the start > run “cmd” but instead type “powershell”.

**Figure 1. - The PowerShell**

The blue PowerShell window appears (Figure 1) this is the new and improved shell that Microsoft has provided.

**Figure 2. - dir**

Upon entering “dir” and a directory listing appears, it looks different than the old cmd.exe output (Figure 2).

**Figure 3. - ls**

Also entering “ls” – will provide the same output. This is an alias for the Get-ChildItem PowerShell cmdlet (Figure 3 and 4).

**Figure 4. – Get-Alias ls**
2.2. Log Analysis with PowerShell

PowerShell guides such as the official guide from Microsoft Windows PowerShell First Steps, (Wilson 2013) or PowerShell deep Dive (Hicks et al, 2013) show that the get-alias cmdlet can provide and set an alias for any cmdlet in the PowerShell environment. PowerShell uses a noun-verb pair for its naming of the .net based commands. Get-Command when ran shows what cmdlets are available. Get-Help can be run with a tremendous amount of options against any other cmdlet (the –example is particularly helpful). After reviewing the cmdlets, the Select-String cmdlet should appear very interesting, the first line in the DESCRIPTION section reads: “The Select-String cmdlet searches for text and text patterns in input strings and files. You can use it like Grep in UNIX and Findstr in Windows.” To test, look at any syslog file and identify the specific regular expression. In order to evaluate the capabilities of PowerShell log analysis, the syslog examples from Cisco are downloaded:

One of the IP addresses in the file is 192.168.208.63 by running: Select-String 192.168.208.63 .\CiscoLogFileExamples.txt the following results are displayed (Figure 5).

In (Figure 5.) the output looks like the *nix command, ‘grep’ but with some extra data. The name of the file and line number is output to the shell. This data may be interesting in some cases, but to obtain just the matching line the output must be piped to a command that selects the line object (Figure 6.).
When extracted the object identified in the Select-String Cmdlet matches the select line in the pattern search. To see how many connections are made when analyzing a single host, the output from that can be piped to another command: Measure-Object. (Figure 7.).

The command is able to obtain count information as well as average, sum, max, min, and other property information. The following command (Figure 8.) was taken form Command Line Kung-Fu, (Williams, 2011), it will select all IP addresses in the file expand the matches property, select the value, get unique values and measure the output.

Removing Measure-Object shows all the individual IPs instead of just the count of the IP addresses (Figure 9.). The Measure-Object command counts the IP addresses.
Figure 9. – Select-String sort -uniq

In order to determine which IP addresses have the most communication the last commands are removed to determine the value of the matches (Figure 9.). Then the group command is issued on the piped output to group all the IP addresses (value), and then sort the objects by using the alias for Sort-Object: sort count –des. This sorts the IP addresses in a descending pattern as well as count and deliver the output to the shell (Figure 10.).

Figure 10. Select-String Count IPs

With this type of analysis, it is easy to find the top talkers in a log file. Here is the command for ease of use in the future:

```powershell
PS C:\Users\valley\Documents\SANS\C11-Gold> select-string "\b(?:(\d\.|\d){3}\d\{1,3}\b)\." \CiscoLogFileExamples.txt | select - ExpandProperty matches | select -value | group -value | sort -count -des.
```

(Williams, 2011)

2.3. Windows Firewall Analysis with PowerShell

A bane to windows systems analysts is the difficulty of centralizing Windows Firewall logs to a central repository for review. A central log repository could be configured for the Windows Advanced Firewall using the legacy command netsh.exe, PowerShell baked in logic, some .Net and some Windows Administration. The first step to this is to find where the logs are on a windows system.

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This will get the setting for logs in the windows firewall which should be enabled in GPO policy for analysis. The command shows that the Firewall log is at: %systemroot%\system32\LogFiles\Firewall\pfirewall.log, in order to open the file PowerShell will need to be run with administrative privileges. First step is to get the above command into a variable using script logic. Thankfully PowerShell has a built-in integrated scripting environment, PowerShell.ise.

```
netsh advfirewall show allprofiles | Select-String FileName | select -ExpandProperty line | Select-String "\%systemroot%\+\log" | select -ExpandProperty matches | select -ExpandProperty value | sort –uniq
```

Then finally run the above command (Figure 10.) and get the connections count. The following type of information will be displayed (Figure 12.):
Through this information, the level of connections, the default gateway and all connections to and from the system can all be extrapolated. Now in order to solve the central logging problem, where on the network to send data needs to be determined. Using the assumption that he chooses "\(\text{\texttt{Secureshare\logs}}\)”, changing this command is simple. To send this system’s logs to the share drive with the following format: (Date)-(Hostname)-FWLogs.log, run the same log-name identifier (Figure 13.):

![Figure 13. – Get Firewall Logs](image)

![Figure 14. – Send to Central Log](image)

With the log file cleaned up (Figure 14.), now it is simply another selection of what is wanted and sending that to the log file. Either a schedule task can be created across the domain using GPO, the invoke-command cmdlet, or create scheduled tasks on critical systems.

### 2.4. PowerShell Modules

PowerShell has tremendous baked in functionality, but when additional capability is needed, there are the PowerShell Modules and PowerShell Community Extensions. These modules are written to add functionality to PowerShell and a very useful module is the Quest Active Directory cmdlets, by Quest (Dell) Software. The cmdlets can be

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downloaded at http://www.quest.com/powershell/activeroles-server.aspx. After installation, the Quest Active Directory Shell can be started from the start menu or run the following code: Add-PSSnapin quest.activeroles.admanagement. This will run the PowerShell snapin if it is not added already (if it has, the console will just output an error), this is especially good for scripting. Scripts using this module are very good for doing monitoring of critical security groups such as “Domain Admin”. To monitor a Security Group, add the code below (Figure 15) into the top of the script after installing Quest Active Directory cmdlets.

![Image of PowerShell IDE](image1.jpg)

**Figure 15. – Import Module**

Monitoring of the “Domain Admins” account should be simple now. By creating variables for two files and piping the output of the Get-QADGroupMember command into the $current variable through the Out-File cmdlet to get a current group membership of the monitored account (Figure 16.).

![Image of PowerShell IDE](image2.jpg)

**Figure 16. – Compare Admins**

Next the logic has to be created for the files. The logic tests if the compare path exists: the difference between the current and compare files, if there are any, a mail message must be sent. Then the current file must be moved to the compare file for the

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next run. If the compare file does not exist, the file must be moved to the compare file and a message will be sent stating that monitoring has started. (Figure 17.)

![Figure 17. – Alert for Admin Changes](image)

The next step is to make this a recurring activity. There are multiple ways to do so, such as creating scheduled tasks for Windows as well as coding it into the script. This can be run in a continuous loop with a while loop (Figure 18.). The sleep at the end says wait 100 seconds, and this can be manipulated more if needed (Figure 18.).
If more groups need to be analyzed, then the script can be parameterized and functionalized.

### 2.4.1. Monitoring Other Security Groups

By functionalizing (Figure 19.) the monitoring script code can be deployed in a myriad of ways.
Figure 19 – Security Group Monitoring

Now run this code (Figure 19.) in a shell and kick off monitoring as needed.

```powershell
PS> Start-Job {ADMonitor --interim 100 --group "Domain Admins"}
PS> Start-Job {ADMonitor --interim 100 --group "Enterprise Admins"}
PS> Start-Job {ADMonitor --interim 100 --group "Schema Admins"}
```

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The scripts run as a service and can be made to monitor multiple things. The framework can even be done to monitor locked accounts, using the get-qaduser –locked switch. Adding another script to the startup command creates a full feature interactive application server that can be monitored.

2.4.2. PowerShell as a Syslog Server

Knowing an account is locked out is not as important as knowing why. This only works with monitoring security events and the best PowerShell code for monitoring event logs from a central location comes from Robert Sheldon, from the (Window IT Pro Article, 2008). The actual script was well designed, in that, there is not much need to change the code except for the SMTP information for the mail alerts (code Attached). The content of the referenced .txt and .csv files will need to be modified to indicate which systems need to be monitored and what security events you would like to pull from the systems.

<table>
<thead>
<tr>
<th>Monitored_computers.txt:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domaincontrollersystemname1</td>
</tr>
<tr>
<td>Domaincontrollersystemname2</td>
</tr>
<tr>
<td>AllotherDCs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alert_events.csv:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source,ID</td>
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<td>Microsoft+Windows+Security+Auditing,539</td>
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<tr>
<td>Microsoft+Windows+Security+Auditing,644</td>
</tr>
<tr>
<td>Microsoft+Windows+Security+Auditing,4740</td>
</tr>
</tbody>
</table>

If the path is outlined for these in the “logmonitor” script and has the correct email information, an email will be sent with the log information every time an account locks out containing the system information and the reason that an account was locked out.

2.4.3. Active Directory Monitoring

Now the ability to determine when security groups change, why security accounts get locked out, obtain network connection logs across the domain, and process the logs

Author Name, email@address
through multiple processes including regular expression pattern matching are all possible. Monitoring Domain Admin accounts is critical but monitoring local admin accounts can catch an attacker earlier in the exploitation cycle. This activity is one of the basic things an interactive attacker will do after he exploits a machine. The same techniques as in the previous examples can be utilized to detect this activity. An up to date list of systems needs to be acquired. This can also be done using the quest active directory cmdlets (Figure 20).

![Windows PowerShell ISE](image-url)

**Figure 20. – Get servers**
This will generate a list of systems on a domain as well as set up alerting (Figure 21):

```
if ((Get-PSSnapin | where {$_.name -like "quest"}) -eq $null)
{
    add-PSSnapin quest.activroles.admanagement
}
# update server list from domain controller
$SNList = "F:\AD-Computers\Servers-new.txt"
$SLList = "F:\AD-Computers\Servers.txt"

get-andcomputer -Sizelimit 0
    | select -expandproperty name
    | out-file $SNList
if ((Test-Path $SLList) -eq $False)
{
    Move-Item $SNList $SLList
}
else
{
    $Change = Compare-Object (Get-Content $SLList) (Get-Content $SNList)
    if ($Change)
    {
        Send-MailMessage
            -SmtpServer $SERVER
            -To mikey@company.com
            -From ADMonitor@q2ebanking.com
            -Subject "System change on domain" -Body $Change
        move-item $SNList $SLList
    }
}
```

Figure 21. – Monitor Systems added/removed AD

2.5. Local Security Group Monitoring

The next task is getting a list of administrators from a local group on a remote system. There are multiple methods, but a useful technique using the Active Directory Service Inquiry Object was outlined in 2008 on the Microsoft Blog Scripting Guys. The following function using the [ADSI] objects will list members of local security groups on a system (ScriptingGuy1, 2008) (Figure 22):
By running:

```
PS > listlocal-remote --strComputer $systemnameorIP --localgroup Administrators
```

A list of local admins from a remote system can be gathered. Using the same logic as earlier to compare old and new output from files detecting changes can be possible (Figure 23):

---

**Figure 22.** – [ADSI] – get local users

---

Author Name, email@address
Figure 23. – Get local admins script and compare

The full script is attached in Appendix A, which will notify via a specified email when a local admin group changes on a system on the domain. A startup task or a sleep with the start-job/service can be created to keep the monitoring script running. This will ensure that the when an admin security group changes a notification is sent to track down why and when it changed.

3. Conclusion

Windows environments have historically fell short in the automation world because of the lack of a full-featured scripting language. Now this disparity has been reduced with the advent of PowerShell. PowerShell was designed as an administrative language however it has tremendous capability in regards to Security scripting and monitoring. The only limit that exists is the Analyst’s imagination.

Author Name, email@address
In this paper, it was demonstrated how PowerShell shell commands can be used to analyze logs and windows systems using several cmdlets as well as how to create some monitoring that has been traditionally lacking in Windows Systems. Modules to expand its capability such as the Quest Active Directory cmdlets and some techniques to compare changes from one moment to another was demonstrated. The critical task monitoring of monitoring privileged accounts across the domain was proved possible.

The method for centralizing logs across the domain from the Windows firewall in order to get the proper logs into one place for the network connections for analysis was outlined. This coupled with monitoring of other logs is critical for analysis and detection.

Historically intrusion analysts have depended on tools for the identification and interpretation of this type of information, and there are lots of tools out there that will do this type of monitoring/analysis. They all are expensive, and for a small to medium sized shop that needs to monitor this information, Microsoft has provided the tools to monitor and extrapolate this type of information. The only additional task is the dedication and the will to accomplish the task.

Author Name, email@address
4. References


Wilson, Ed (2013), Windows PowerShell 3.0 First Steps, Microsoft Press, p. 223
5. Appendix A

Log Monitor:


Roric Dec 13, 2012 at 11:29 AM

START SCRIPT

param([switch]$ShowEvents = $false,[switch]$NoEmail = $false,[switch]$useinstanceid = $false)

$log = "Security"
$hist_file = $log + ".loghist.xml"
$seed_depth = 100

#run interval in minutes - set to zero for runonce, "C" for 0 delay continuous loop.
$run_interval = 5

$EmailFrom = "SecurityLogMonitor@company.com"
$EmailTo = "SecurityAlerts@company.com"
$EmailTo2 = "L1ITHelpdesk@company.com"
$EmailSubject = "SecurityAlert"

$SMTPServer = "server.mail.com"
$SMTPAuthUsername = "username"
$SMTPAuthPassword = "password"

$computers = @(get-content F:\output\monitored_computers.txt)
$event_list = @{}

Import-Csv "F:\output\alert_events.csv" |% {$event_list[($_.source + '#' + $_.id)] = 1}

#see if we have a history file to use, if not create an empty $histlog
if (Test-Path $hist_file){$loghist = Import-Clixml $hist_file}
else {$loghist = @{}}

$timer = [System.Diagnostics.Stopwatch]::StartNew() 
function send_email {
$mailmessage = New-Object system.net.mail.mailmessage
$mailmessage.from = ($emailfrom)
$mailmessage.To.add($emailto)
$mailmessage.To.Add($EmailTo2)
$mailmessage.Subject = $emailsubject
$mailmessage.Body = $emailbody
$mailmessage.IsBodyHTML = $true
$SMTPClient = New-Object Net.Mail.SmtpClient($SMTPServer, 25)
$SMTPClient.Send($mailmessage)
}

#START OF RUN PASS
$srun_pass = {

$EmailBody = "Log monitor found monitored events. `n"
$computers |%{
$timer.reset() 
$timer.start() 
Write-Host "Started processing $($_)"

#$index = (Get-EventLog -ComputerName $_ -LogName $log -newest 1).index

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#if we have a history entry calculate number of events to retrieve
# if we don't have an event history, use the $seed_depth to do initial seeding
if ($loghist[$_] | Where-Object {$_ -gt 0}) {
    $index = $loghist[$_]
    $n = $index - $loghist[$_]
    if ($n -lt 0) {
        Write-Host "Log index changed since last run. The log may have been cleared. Re-seeding index."
        $EmailBody += "$ Possible Log Reset $($_)
        Event Index reset detected by Log Monitor
        " | ConvertTo-Html
        $n = $seed_depth
    }
    Write-Host "Processing $($n) events."
    #get the log entries
    if ($useinstanceid) {
        $log_hits = Get-EventLog -ComputerName $_ -LogName $log -Newest $n | Where-Object {$_ -gt 0}
    } else {
        $log_hits = Get-EventLog -ComputerName $_ -LogName $log -Newest $n | Where-Object {$_ -gt 0}
    }
    #save the current index to $loghist for the next pass
    $loghist[$_] = $index
    #report number of alert events found and how long it took to do it
    if ($log_hits) {
        $hits = $log_hits.Count
        $EmailBody += "$ Alerts on server $($_)
        Alert Events on server $($_)
        " | ConvertTo-Html
        $EmailBody += $log_hits |%{
            $_ | select MachineName,EventID,Message | ConvertTo-Html
            $EmailBody += "<br><br>"
        }
        if ($ShowEvents) {
            $log_hits | Out-String |? {$_}
        }
    }
    #save the history file to disk for next script run
    $loghist | export-cixml $hist_file
    #Send email if there were any monitored events found
    if ($events_found -and -not $NoEmail) {
        send_email
    }
}

#END OF RUN PASS
Write-Host "$($"**60")"
Write-Host "Log monitor started at $(get-date)"
Write-Host "$($**60)"

#run the first pass
$start_pass = Get-Date
&$run_pass

#if $run_interval is set, calculate how long to sleep before the next pass
while ($run_interval -gt 0) {
    if ($run_interval -eq "C") {
        &$run_pass
    } else {
        $last_run = (Get-Date) - $start_pass
        $sleep_time = ([TimeSpan]::FromMinutes($run_interval) - $last_run).totalseconds
    }
}
Write-Host "n$('*'*10) Sleeping for $sleeptime seconds 'n"

#sleep, and then start the next pass
Start-Sleep -$sleeptime
$start_pass = Get-Date
&$run_pass
}
}

###########################################END SCRIPT###########################################

Code written for this paper:

Get top ten talkers in a log file:

uniq %systemroot%+.log |%computername%FWLogs.log

Get Windows Firewall Logs and pipe to central location:

Change Local admin (in case you don’t want to just monitor)
"Please specify a computername, IP or system name with ps:> changeLA -strComputer test-it" break
}
$computer = [ADSI]("WinNT://" + $strComputer + ",computer")
#$computer.name
#$strComputer
$Group = $computer.psbase.children.find("administrators")
#$Group.name
# This will list what’s currently in Administrator Group so you can verify the result
function ListAdministrators
{$members= $Group.psbase.invoke("Members") | %{$_.GetType().InvokeMember("Name","GetProperty","Snnull,$null")}$members}
"Current Administrators on $strComputer"
ListAdministrators
"n"
if ($username -eq "")
{
    out-null
}
elif
    if ($remove -ne $false)
    {
        $Group.Remove("WinNT://" + $domain + "/" + $username)
        "Administrators after script:"
        ListAdministrators
        "n"
    } elseif ($add -ne $false)
    {
        $Group.add("WinNT://" + $domain + "/" + $username)
        "Administrators after script:"
        ListAdministrators
        "n"
    } else
    {
        "what do you want me to do? please specify with changeLA -strComputer test-it -username test -add"
    }
$Username = ""
$strComputer = ""
$Add = $false
$Remove = $false

##############################End Script##############################

ADMonitor – Monitor any Security group in AD and shoot an email – will have to change email code

function ADMonitor ($interim,$group) {
    if ((Get-PSSnapin | where {$_.name -like "+quest*"}) -eq $null)
    {
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Author Name, email@address
add-PSSnapin quest.active roles.admgmt

if (((Get-QADGroup $group) -ne $null)
{
    while (1)
    {
        $current = "c:\output\$group-new.txt"
        $compare = "c:\output\$group-old.txt"

        Get-QADGroupMember $group | select -ExpandProperty name | out-file $current
        if (Test-Path $compare)
        {
            $findings = Compare-Object (Get-Content $compare) (Get-Content $current)
            if ($findings -ne $null)
            {
                Send-MailMessage -SmtpServer $server 'To mikey@company.com' -from ADMonitor@company.com 'Subject "Group Changed!" ' -Body $findings
            }
            Move-Item $current $compare
            else
            {
                Move-Item $current $compare -force
                Send-MailMessage -SmtpServer $server 'To mikey@company.com' -from ADMonitor@company.com 'Subject "Monitoring started for $group"
            }

            Sleep $interim
        }
        else
        {
            exit
        }
    }
}
else
{
    exit
}

###########################################################################END SCRIPT###########################################################################

Author Name, email@address
LocalAdminMonitor – monitor across the domain and all changes to the domain.

```
START SCRIPT
if ((Get-PSSnapin | where {$_.name -like "*quest*"}) -eq $null)
{
    add-PSSnapin quest.activeroles.admanagement
}
# update server list from domain controller
$NewList = "F:\AD-Computers\Servers-new.txt"
$OldList = "F:\AD-Computers\Servers-old.txt"
get-qadcomputer -SizeLimit 0 -
    | select -expandproperty name -
    | out-file $NewList
if ((Test-Path $OldList) -eq $false)
{
    Move-Item $NewList $OldList
}
else
{
    $Change = Compare-Object (Get-Content $OldList) (Get-Content $NewList)
    if ($Change)
    {
        Send-MailMessage -SmtpServer $SERVER -to mikey@company.com -from ADMonitor@q2ebanking.com -Subject "System change on domain" -Body $Change
        move-item $newlist $oldList
    }
}
#function to acquire local admins:
function listlocal-remote ($strComputer,$localgroup)
{
    $computer = [ADSI]("WinNT://" + $strComputer + ",computer")
    $Group = $computer.psbase.children.find($localgroup)
    # This will list what's currently in Administrator Group so you can verify the result
    function ListUsers{
        $members = $Group.psbase.invoke("Members")
        | %{$_._.GetType().InvokeMember("Name", 'GetProperty', $null, $_, $null)}
    }
    "$localgroup Group on $StrComputer"
    ListUsers
    **
}
#Alright - let's get some local admins
$Servers = Get-Content $OldList
foreach ($Server in $Servers)
{
    $NewAdmins = "F:\AD-Computers\LAs\$server-localadmins-new.txt"
    $OldAdmins = "F:\AD-Computers\LAs\$server-localadmins-old.txt"
    listlocal-remote -strComputer $Server -localgroup Administrators | out-file $NewAdmins
    if ((test-path $OldAdmins) -eq $false)
    {
        Move-Item $NewAdmins $OldAdmins
    }
    elseif ((Test-Path $NewAdmins) -eq $false)
```

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Out-Null
}
else
{
$LAChange = Compare-Object -old $oldAdmins -new $newAdmins -msg $server
if ($LAChange)
{
    Send-MailMessage `-SmtpServer $server `-to mikey@company.com `-from LAMonitor@company.com `-Subject "Local Administrators account changed on $server" `-Body $LAChange
}
Move-Item $newAdmins $oldAdmins
}

###########################################################################END SCRIPT ####################################################################
# Upcoming SANS Training

Click here to view a list of all SANS Courses

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<td>Live Event</td>
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<td>SANS Kuwait March 2020</td>
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<td>Mar 21, 2020 - Mar 26, 2020</td>
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<td>Muscat, OM</td>
<td>Apr 04, 2020 - Apr 09, 2020</td>
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<td>Brussels, BE</td>
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<td>OnlineKYUS</td>
<td>Mar 02, 2020 - Mar 09, 2020</td>
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<td>SANS OnDemand</td>
<td>Books &amp; MP3s OnlyUS</td>
<td>Anytime</td>
<td>Self Paced</td>
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