Lab: Running Script on PowerShell

Introduction:

A script is a plain text file that contains one or more PowerShell commands.

Writing a script saves a command for later use and makes it easy to share with others.

Most importantly, it lets you run the commands simply by typing the script path and the filename.

Scripts can be as simple as a single command in a file or as extensive as a complex program.

Objectives:

- **Running script on powershell.**

Note: Login to **eoc-controller** as **win-admin** user with password as **linux**

1. Running script on powershell.

1.1 Use the below command to get the logs of the WinRm service on windows terminal.

```
# Get-WinEvent -LogName 'Microsoft-Windows-
WinRM/Operational' | Format-List
```

Output:

```
TimeCreated  : 23-11-2023 02:33:45
ProviderName : Microsoft-Windows-WinRM
Id           : 161
Message      : The client cannot connect to the destination specified in the request. Verify that the service on the
               destination is running and is accepting requests. Consult the logs and documentation for the
               WS-Management service running on the destination, most commonly IIS or WinRM. If the destination is the
               WinRM service, run the following command on the destination to analyze and configure the WinRM service:
               "winrm quickconfig".

TimeCreated  : 23-11-2023 02:33:45
ProviderName : Microsoft-Windows-WinRM
Id           : 254
Message      : Activity Transfer

TimeCreated  : 23-11-2023 02:33:41
ProviderName : Microsoft-Windows-WinRM
Id           : 145
Message      : WSMan operation Enumeration started with resourceUri
               http://schemas.microsoft.com/wbem/wsman/1/config/listener
```

1.2 Create a **powershell.yml** playbook to execute commands on powershell.

Task1→ Gather the facts of the hosts, set to false.

```
1  ---
2  - name: Example Playbook for Windows
3    hosts: windows_hosts
4    gather_facts: false
5
```

Task2→ Create a power shell script.

```
  7     tasks:
  8       - name: Create PowerShell script
  9         ansible.builtin.copy:
 10           content: |
 11             Write-Output "Hello from Ansible on Windows!"
 12           dest: C:\Users\ansible\Documents\script.ps1
```

Task3→ Run the script.

```
 14       - name: Execute PowerShell script on Windows
 15         ansible.windows.win_command: powershell.exe -ExecutionPolicy Bypass -File C:\Users\ans
ible\Documents\script.ps1
```

1.3 Let's view the playbook.

```
# cat -n powershell.yml
```

Output:

```
[win-admin@eoc-controller ~]$ cat -n powershell.yml
     1  ---
     2  - name: Example Playbook for Windows
     3    hosts: windows_hosts
     4    gather_facts: false
     5
     6
     7    tasks:
     8      - name: Create PowerShell script
     9        ansible.builtin.copy:
    10          content: |
    11            Write-Output "Hello from Ansible on Windows!"
    12          dest: C:\Users\ansible\Documents\script.ps1
    13
    14      - name: Execute PowerShell script on Windows
    15        ansible.windows.win_command: powershell.exe -ExecutionPolicy Bypass -File C:\Users\ans
ible\Documents\script.ps1
```

1.4 Let's check the syntax of playbook **powershel.yml.**

```
# ansible-playbook --syntax-check powershell.yml
```

Output:

```
[win-admin@eoc-controller ~]$ ansible-playbook --syntax-check powershell.yml

playbook: powershell.yml
```

1.5 Run the playbook **powershell.yml** with verbose to get the powershell output also.

```
# ansible-playbook -vv powershell.yml
```

Output:

```
PLAYBOOK: powershell.yml ********************************************************************************
1 plays in powershell.yml

PLAY [Example Playbook for Windows] *********************************************************************

TASK [Create PowerShell script] *************************************************************************
task path: /home/win-admin/powershell.yml:8
ok: [windows_machine] => {"changed": false, "checksum": "1b25b6505685d66ac3cfdcc6a314d57826ba6658"}

TASK [Execute PowerShell script on Windows] *************************************************************
task path: /home/win-admin/powershell.yml:14
changed: [windows_machine] => {"changed": true, "cmd": "powershell.exe -ExecutionPolicy Bypass -File
 C:\\Users\\ansible\\Documents\\script.ps1", "delta": "0:00:01.406302", "end": "2023-11-23 17:03:22.
406496", "rc": 0, "start": "2023-11-23 17:03:21.000194", "stderr": "", "stderr_lines": [], "stdout":
 "Hello from Ansible on Windows!\r\n", "stdout_lines": ["Hello from Ansible on Windows!"]}

PLAY RECAP **********************************************************************************************
windows_machine            : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=
0    ignored=0
```