

SCX RunAsProvider ExecuteShellCommand #3059

New issue

Merged

shainw merged 4 commits into Azure:master from Cyb3rWard0g:master on Sep 17, 2021


Conversation 5

Commits 4

Checks 0

Files changed 1

+43 -0



Cyb3rWard0g commented on Sep 17, 2021 • edited Contributor

This hunting query uses Auditd security events collected via the Syslog data connector to explore the use of the [SCX RunAsProvider Invoke_ExecuteShellCommand](#) to execute any UNIX/Linux command using the /bin/sh shell.

SCXcore, started as the Microsoft Operations Manager UNIX/Linux Agent, is now used in a host of products including Microsoft Operations Manager. Microsoft Azure, and Microsoft Operations Management Suite.

SCX has a support provider named [RunAsProvider](#). This provider has a few classes:

- [ExecuteCommand](#)
- [ExecuteShellCommand](#)
- [ExecuteScript](#)

Based on [OMIGOD: Critical Vulnerabilities in OMI Affecting Countless Azure Customers](#) by [Wiz](#) , `ExecuteShellCommand` was used in the HTTP request to test `CVE-2021-38647` .

```
<s:Body>
  <p:ExecuteShellCommand_INPUT xmlns:p="http://schemas.dmtf.org/wbem/wsman/1/
    <p:command>id</p:command>
    <p:timeout>0</p:timeout>
  </p:ExecuteShellCommand_INPUT>
</s:Body>
```

This was derived from initial testing while executing commands via `/opt/omi/bin/omicli` and exploring responses.

```
/opt/omi/bin/omicli --hostname 192.168.1.1 -u azureuser -p Password1 iv roo
```

Using the same template provided in the blog post by Wiz, we prepared a quick test:

```
<s:Body>
  <p:ExecuteShellCommand_INPUT xmlns:p="http://schemas.dmtf.org/wbem/wsman/1/
    <p:command>echo 'Hola MSTIC'</p:command>
    <p:timeout>0</p:timeout>
  </p:ExecuteShellCommand_INPUT>
</s:Body>
```


We set the SCX logging to `verbose`


```
/opt/microsoft/scx/bin/tools/scxadmin -log-set all verbose
```


and we were able to capture the activity on the OMI server side in the `scx.log` :


```
tail -f /var/opt/microsoft/scx/log/scx.log
```


Reviewers


 shainw


 Amitbergman


 aprakash13


 ashwin-patil


 dicolanl


 ianhelle


 juliango2100


 laithhisham


 liatlishams


 liemilyg


 lior-tamir


 mgladi


 nazang


 NoamLandress


 oshezaf


 oshvartz


 petebryan


 preetikr


 sagamzu


 sarah-yo


 shschwar

 sreedharande

 timbMSFT

 Yaniv-Shasha

 YaronFruchtmann

 YuvalNaor

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Hunting Queries/Syslog/SCXRunAsProviderExecuteShellCommand.yml

Show resolved

added filter to improve performance and added Account entity type

6289347

shainw approved these changes on Sep 17, 2021

View reviewed changes

shainw merged commit 840bdb9 into Azure:master on Sep 17, 2021

Sign up for free to join this conversation on GitHub. Already have an account? [Sign in to comment](#)