

Ex 9 - TCN Opr v5.0 - Microsoft Configuration Manager Integration

Exercise Overview:

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Microsoft Configuration Manager Integration

In addition to being able to run instructions from the Tachyon explorer, Tachyon also has Configuration Manager Console extensions which allow you to run Tachyon instructions directly from the Configuration Manager console. There is great value in this functionality as it allows you to target specific collections rather than having to set coverage parameters within Tachyon.

This ConfigMgr integration is enabled via the **Tachyon Toolkit** installer (which will need to be installed on any machine where the Configuration Manager console is installed).

In our environment, we already have the ConfigMgr console installed on the **1ETRNCM** server.

The Configuration Manager console may be installed and used by any user that is configured as an Administrative User. There are several Security Roles that may be given to the user and not all of these roles are permitted to use Configuration Manager to make changes that affect the network. When configuring the corresponding Tachyon user, you should take this into account when assigning the Tachyon Roles. For example, it would be unusual for a user with just the Read-only Analyst role in Configuration Manager to be granted the global Actioner role in Tachyon and therefore be able to perform Tachyon actions on all the devices in a particular collection but not be able to use Configuration Manager to perform any other tasks.

When in ConfigMgr, the role based security configured in the console will dictate what the user has access to. Tachyon will dictate what permissions a user or group has based on Tachyon's role based security, thus you must configure both very carefully to ensure the right access is provided to the users you are granting the ability to use Tachyon through the ConfigMgr console.

In the following exercises, we will configure the Tachyon back end for the ConfigMgr integration. Once configured, we will install the Tachyon Toolkit on the server with the ConfigMgr console, and lastly, we will configure a ConfigMgr administrative user with permissions in Tachyon.

Configuring the Consumers

Configuring the Integration/Consumers

1ETRNPAP

1. Logged in as **1ETRNPAppInstaller**, launch the *Settings* Application and navigate to **Configuration – Consumers**
2. Note the consumers that are installed, **Explorer, Platform, Inventory, Guaranteed State, Patch Success, RunInstructionUI, CCMConsoleExtensions, TachyonRunInstruction** and **Experience**. These are installed when Tachyon is installed and are the default consumers
3. Select **RunInstructionUI**, Click **Edit** and set the **Maximum simultaneous instructions** setting to **250**
4. Check the **Use Windows Authentication** and **Enabled** boxes at the bottom (if not already)
5. Click **Save**
6. Repeat steps above for **CCMConsoleExtensions**
7. Note that there are now 9 consumers configured in Tachyon
8. Navigate to the **Permissions - Users** tab in the *Settings* Application
9. On the right side, click on the **Add** button to add a user
10. In the select user field, type in **1ETRNP\SCCM ADMIN** and select **SCCM Admin** in the suggestion list. Click the **Add** button
11. Click the **1ETRNP\SCCMAdmin** account to edit the role
12. Click the **Edit** button on the right side
13. Select **Global Actioners** and click **Save**
14. You will see in the *User: SCCM Admin* page that it has been permissioned with the **Global Actioners** role

Installing the Tachyon Toolkit

1ETRNCM

15. Log into **1ETRNCM** as **SCCMADMIN**
16. Ensure the ConfigMgr console is closed
17. Open an explorer window and navigate to **\\1etnp\temp\TachyonPlatform.v5.0.0.592\Installers** and copy **TachyonToolkit.msi** to **c:\temp**
18. From a command box, switch the working folder to **c:\temp** and run the following command

```
msiexec /i TachyonToolkit.msi /l*v TachyonToolkit.log
```

19. On the *Welcome* page click **Next**
20. On the *License Agreement* page, select **I accept the terms in the license agreement** and click **Next**
21. On the *Custom Setup* page, click **Next**
22. On the *Tachyon Server* page, input **Tachyon.1etrn.local** and click **Next**
23. Click **Install**
24. Once installed, click **Finish**
25. Browse to **c:\Program Files (x86)\1E\Tachyon** and note that a **Toolkit** folder now exists with a subfolder

Using Tachyon through the ConfigMgr console

Now that we have installed the Toolkit and with it the ConfigMgr console extensions, as well as having configured the two consumers required for the ConfigMgr integration, we are ready to use Tachyon through the ConfigMgr console.

Start the Config Man Client Service

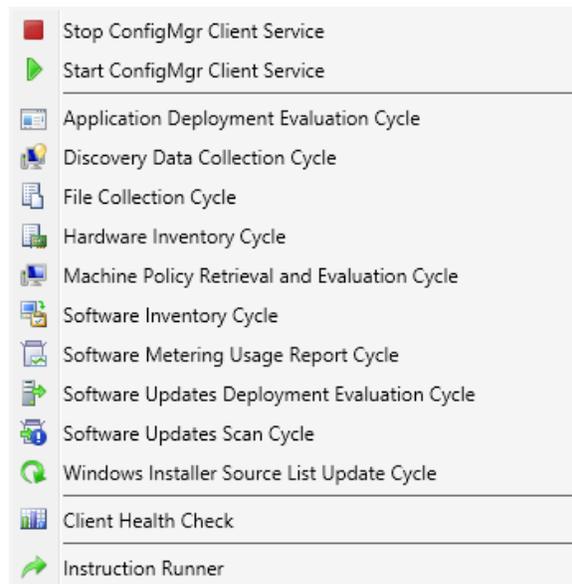
1ETRNW73

26. Still logged into **1ETRNW73** as **1ETRN\Tachyon_AdminG**
27. Click **Start** and type in **Services.msc**. Click on the *Services.msc* applet
28. Click on any service and type in **SMS**. Stop the **SMS Agent Host** service
We will now use a Tachyon instruction from the Config Man console to start the Config Man Client Service

1ETRNCM

29. Logged in as **1ETRNSCCMADMIN**, launch the ConfigMgr console from the taskbar
30. Click the **Assets and Compliance** pane on the left and select **Devices**
31. Right-click **1ETRNW73** and at the bottom of the pop-out menu, select **1E Tachyon**
32. We will now use a Tachyon instruction from the Config Man console to start the Config Man Client Service

You should see a list of Tachyon specific actions as follows



33. Click on **Start ConfigMgr Client Service**. Click **Yes**
34. Launch **Live Mail** from the **Start** menu and click **Send/Receive**
35. Get the authentication code from the latest email and input it into the **Authentication code** box which appeared when the action was initiated
36. Click **OK** on the Tachyon pop up

1ETRNW73

37. Logged into **1ETR73** as **1ETRNTachyon_adminG**, launch the Tachyon Portal if not already open and navigate to the Explorer Application - notifications page
38. Note the action initiated from the ConfigMgr console has an approval request waiting
39. Click **Start** and type in **Services.msc**. Click on the **Services.msc** applet
40. Click on any service and type in **SMS**. Note the **SMS Agent Host** service is in a **Stopped** state
41. Return to the *Explorer* Application and approve the request
42. Browse to **c:\programdata\1E\Client** and open the **1E.Client.log** file
43. Note that the action we just approved has been actioned but that our Guaranteed State Policy has run and has marked this device as non-compliant

Your log should look similar to this one

```

2019-04-14 17:39:02:058 [2212] INFO - Setting status to 'disabled' for service 'ConExec'
2019-04-14 17:39:02:108 [2212] INFO - Performing action 'stop' for service 'ConExec'
2019-04-14 17:39:13:988 [2212] INFO - [Seq-45] Successfully processed instruction (InstructionId=45)
2019-04-14 17:39:20:268 [5664] INFO - [Policy Rule 'ConfigMgr client running' (ID: 3) (pre-condition)] Successfully processed instruction
2019-04-14 17:39:20:381 [5664] INFO - [Policy Rule 'ConfigMgr client running' (ID: 3) (check)] Successfully processed instruction
2019-04-14 17:39:20:514 [5664] INFO - -> Policy Rule 'ConfigMgr client running' (ID: 3) status changed from 'check passed' to 'check failed': sending status change notification(s)

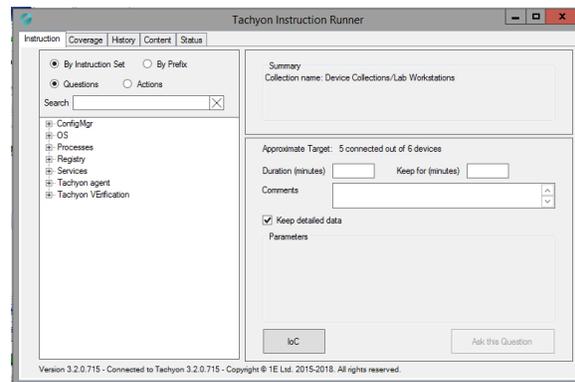
```

44. Return to the **Services** applet and refresh the view. Note that the **SMS Agent Host** service is now stopped and disabled

1ETRNCM

45. Returning to the ConfigMgr console, move from the **Devices** workspace to the **Device Collections** workspace
46. Right click on the **Lab Workstations** collection, and select **1E Tachyon>Instruction Runner**

Note a list of instruction Sets are visible



47. Click on the **History** and **Content** tabs. Note that they do not have any information as we have not run any instructions through the Instruction Runner yet
48. Return to the **Instruction** tab
49. Expand **Processes**, and select **What processes are running?**
50. Note the Approximate Target based on the collection we chose
51. This is essentially our coverage, defined by the collection membership
52. Click **Ask this Question**
53. Note the **Tachyon Instruction Runner** change to the **History** tab. Click on the **Content** tab
54. Note the results being returned
55. Click the **Create Collection** button. Note the ability to create a collection based on the results returned. Click **Cancel**
56. The create collection functionality can be very valuable for targeting specific deployments via Config Man. For example, you might run a Tachyon Instruction querying for something specific on all your clients, and the ones that return a value could quickly be put into a collection and have a patch or package deployed to. This collection will be using a direct membership rule so much more efficient on the processing side of Config Man

1ETR73

57. Return to the *Explorer* Application on **1ETR73**
58. Expand the **Instructions** node, and click on **History**
59. Note the different instructions listed here. At the top of the list is the instruction we just initiated through ConfigMgr
60. Click on the instruction to take you to the **Content** page
61. Note the data presented in the same manner that instructions executed directly from the *Explorer* Application are presented

Lab Summary

In this lab, we configured Tachyon to integrate with Config Man, allowing us to execute instructions directly from the Config Man console. First, we configured two Consumers in Tachyon, **RunInstructionUI** and **CMConsoleExtensions**. This allows Config Man consoles to connect to Tachyon as consumers. Next, we added an administrative user in Tachyon to allow that user to execute instructions from Config Man. Once configured, we ran an instruction from Tachyon to stop the SMS services on a machine. Since this was an action and not just a question, it required the 2-factor authentication as well as approval. Lastly, we queried which files exist under a specified path, which required no approval. We configured the ConfigMgr integration with Tachyon, and we now have the ability to execute instructions directly from the Config Man console. This is very valuable because we can target specific collections in Config Man which would be otherwise hard to define in Tachyon. Finally, we validated the data from the

instructions run from Config Man is also displayed in the Tachyon explorer, thus allowing to fall back onto the explorer for reviewing data once the instructions have been run from Config Man.

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[Ex 10 - TCN Opr v5.0 - Creating Instructions and Fragments Using TIMS](#)