Master Console ICAT GUI SSH Setup

Introduction

In this lab you setup the master console ICAT (IBM Cimom Agent Technology) user interface and identify the SVC cluster to the ICAT GUI, so it can be managed. The master console uses SSH secure protocol to communicate with the cluster. In this lab, you create the public and private SSH keys so that ICAT can access and manage the cluster. You will also add the SVC cluster to the ICAT GUI and view the cluster properties. This lab is similar to the lab for setting up SSH and administrator access, but this time instead of loading the SSH keys into PuTTY, you load the SSH keys into the ICAT graphic software.

Instructions

Begin by generating the public and private encryption keys by accessing the PuTTY Key Generator.

1. Click 'Start' button.
2. Click 'Programs'.
3. Click 'PuTTY'.
4. Click 'PuTTYgen'.

Follow the directions to generate the encryption keys. The PuTTY Key generator creates public and private encryption keys to make the cluster secure. The public and private keys are compared and must match. This provides authentication to allow secure access to the management of the cluster.

5. Select 'SSH2 RSA' radio button.
6. Click the 'Generate' button and move the cursor within the Key field while the key is generated. Go to 'Options', and click show me to see this done.

Follow the directions to save the newly generated Public Key.

7. Click the 'Save Public Key' button.
8. Type 'icat.pub' in the File Name field.
9. Click the 'Save' button.

Follow the directions to save the newly generated Private Key.

10. Click the 'Save Private Key' button.
12. Click the 'Yes' button on the PuTTYgen Warning window.
13. Save the file as 'icat.ppk'.

14. Close the PuTTY Key generator screen by clicking the X in the upper right corner.

The next step is to restart the IBM CIM Object Manager now that you have loaded the private SSH key.

15. Double click the 'My Computer' icon in the top left corner of the desktop
16. Double click on 'Local Disk (C:)'.
17. Double click on the 'Program Files' folder.
18. Double click on the 'IBM' folder.
19. Double click the 'svcconsole' folder.
20. Double click 'cimom' folder.
21. Double click 'My Computer'.
22. Double click 'Local Disk (C:)'.
23. Double click the 'Support Utils' folder.
24. Double click the 'keys' folder.
25. Single click on 'icat.PPK'.
26. Right click 'icat.ppk' and select 'Copy'.
27. Click on the window behind the keys folder2. Right click anywhere in the cimom folder window.
28. Choose 'Paste'.
29. Close the cimom folder window by clicking the X in the upper right corner.
30. Close the keys folder window.

The next step is to restart the IBM CIM Object now that you have loaded the private SSH key.

31. Right click the 'My Computer' icon.
32. Click on 'Manage'.

33. Double click on 'Services and Applications'.
34. Double click on 'Services'.
35. Left click on 'IBM CIM Object' with Started Status and then right click it.
36. Click 'Restart'.

You have successfully restarted the IBM CIM Object Manager.

37. Close the Computer Management window by clicking the X in the top right corner.

Now sign on to the SAN Volume Controller Console.

38. Double click the 'SAN Volume Controller Console' signon shortcut on the desktop.

39. In the User Name field type 'superuser'.
40. Tab to the password field, type 'password', and click the 'OK' button.

The next step is to identify the SVC cluster to the master console.

41. Click the 'Add SAN Volume Controller Cluster' button in the middle of the browser.
42. In the Cluster IP address fields enter the IP address '9.42.164.123' tabbing between fields.
43. Click the 'OK' button.
44. In the password field type, 'password'.
45. Click the 'OK' button.

You now have to specify to the SVC Cluster the public key corresponding to the private key generated in the beginning of this lab.

46. Click the 'Browse' button.
47. Select 'icat.pub' from the list and click 'Open'.
48. In the ID field, type 'icat'.
49. Under the Access Level select the 'administrator' radio button.
50. Click the 'Add Key' button.

You can see that the public SSH administrator key was successfully added. You are now ready to manage the SVC cluster from the ICAT GUI.

51. Click the 'Clusters' link on the menu to the left.

Now launch the SAN Volume Controller application.

52. Click the checkbox for the SVC2 cluster.
53. Click the 'Go' button.

You have successfully launched SAN Volume Controller for cluster SVC2. Now look at the general properties of the SVC2 cluster.

54. Click 'Manage Cluster' from the menu on the left.
55. Click 'View Cluster Properties' from the submenu.

You can now see the general properties of the SVC2 cluster.

Congratulations! You have completed this lab.