

# Novell ZENworks Application Virtualization 9: Advanced Admin Lab

ZEN09

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## SECTION 1    **Exercise: ZENworks Application Virtualization Advanced Administration**

In this section of the workbook you learn how to do the following:

1. “Advanced Administration” on page 6

Before you begin the exercise, make sure that the following virtual machines are running:

**Table 1-1**    *VMware Virtual Machines to Start*

| <b>Virtual Machine</b>        | <b>Instructions</b>   |
|-------------------------------|---|
| <b>DA-ZCM</b>                 | This server runs the ZENworks Configuration Mangement.  |
| <b>ZAVPPACK</b>               | This is the Software Packaging Machine  |
| <b>Windows XP Workstation</b> | When the Logon to Windows dialog box appears, log in as <b>Jpark</b> with a password of <b>novell</b> |
| <b>Windows 7 Workstation</b>  | When the Logon to Windows dialog appears, log in as <b>Jpark</b> with a password of <b>novell</b>     |

In this section of the workbook you learn to do the following:

## **Exercise 1-1    Advanced Administration**

- “Task I: Harvest an Application” on page 6
- “Task II: Build an SVM component” on page 6
- “Task III: Use the SVM in an application” on page 7
- “Task IV: Distribute an Application as an MSI with Associations” on page 8
- “Task V: Require ZENworks ZONE authentication to launch the executable” on page 11
- “Task VI: Distribute the application using Bundle Publishing” on page 12
- “Task VII: Use Sandbox Merge to Modify a Virtual Application” on page 14

### **Task I: Harvest an Application**

Harvesting an application is the newest method for creating virtualized applications in ZAV 9. In this task you virtualize an application that is locally installed on the desktop.

1. **Revert** the **ZAVXPPack VM** to the **starting snapshot**
2. **Launch** the ZAVVPPack VM
3. **Launch ZENworks Application Virtualization** from the Start Menu
4. Click **Scan Desktop** for Installed Applications
5. At Desktop Scan Complete click **Next**
6. Check **Microsoft Internet Explorer 8**
7. Click **Next**
8. For the Folder enter **L:\ZAVwork**
9. For the Output format select **.EXE File**
10. Click **Next**
11. Click **Finish**
12. **Revert** the **ZAVXPPack VM** to the **ZAV9 Start snapshot**.

### **Task II: Build an SVM component**

Microsoft Silverlight is a new technology for enhanced video and multimedia capabilities on the Internet. Because you may want to include this functionality in your virtual browsers, you want to create a shared component that can be used to embed the functionality of Silverlight into your virtual browser instances. To do this:

1. Make **ZAVXPPack** the active VM.
2. **Launch** the ZAVXPPack Vm
3. Launch **ZENworks Application Virtualization**.

The ZAC9 Start Snapshot of the ZAVXPPack VM already has the capture before snapshot taken so you can go straight to installing the application that you want to virtualize.

4. Close the ZAV Configuration Wizard dialog box by clicking **Cancel**.
5. Run **L:\ZAV9\Apps\Silverlight3.exe**
6. At the *Install Silverlight* screen, click **Install now**.
7. At the *Enable Microsoft Update* screen, **uncheck** Enable Microsoft Update
8. Click **Next**.
9. When the install completes, click **Close**.
10. In the ZENworks Application Virtualization window, click the **Capture and Diff** button.
11. Browse to **L:\ZAVWork** and Select **Projects**.
12. Click **Make New Folder**.
13. Change the folder name to **SilverLight**; then click **OK**.

---

NOTE: It will take a few minutes to build the snapshot

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14. From the *Project type* dropdown select **Component**.
15. From the Main Menu click **Save Configuration**
16. Click the **Build** button.
17. Browse to **L:\ZAVWorks\Projects**
18. **Make a New Folder** named **SVM**
19. Open the **SVM Folder**
20. In the File name field, enter **silverlight**; then click **Save**.
21. When the build completes, click **OK**.

You now have an re-usable component that can be used to embed Silverlight into browsers that you virtualize.

### **Task III: Use the SVM in an application**

Now that you have the Silverlight component, you can create applications using the prebuilds included with the product, and then quickly add the Silverlight plug-in to them. To do this:

1. From the ZENworks Application Virtualization packaging tool's main menu, Select **New**
2. Choose **Yes**.
3. From the ZENworks Application Virtualization packaging tool's main menu, select **Open Configuration**.

4. Browse to **L:\ZAVWork\Projects\Browsers**
5. Select **Snapshot** and click **Open**
6. From the ZAV Studio Application click the **Components** button.
7. Click **Import Components...**
8. Browse to **L:\ZAVWork\Projects\SVM**
9. Highlight **silverlight.svm**; then click **Open**.
10. Check the box in front of **Microsoft Silverlight**,
11. To the right of the *Output File* field, click **Browse**
12. Browse to L:\ZAVWork
13. For the Filename enter **vBrowsersSilverlight**
14. Click **Save**
15. Click the **Build** button in the main menu bar.
16. Once the build completes, click **OK**.

---

NOTE: Now the application has been built test it on one of the workstations

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17. Make the **Win7-WS** VM the active Vm
18. Execute **L:\ZAVWork\vBrowsersSilverlight.exe**
19. In the URL location enter **about:plugins**

---

NOTE: There is a colon : between about plugins. This will display the plugins installed for firefox

---

20. View the list of Plugins and verify that the **Silverlight Plugin** is listed
21. **Exit** Firefox

#### **Task IV: Distribute an Application as an MSI with Associations**

In this task you will repackage an application as an MSI and distribute it with ZENworks configuration management. This will demonstrate how to build associations and start menu icons for virtualized applications. In this task you virtualize DIA, an open source software project that allows users to create structured diagrams. The file types associated with DIA have the .DIA extension.

1. **Revert** the ZAVXPPack VM to the Start Snapshot
2. **Start** the ZAVXPPack VM
3. Start **ZENworks Application Virtualization**

---

NOTE: Since the Start Snapshot already has a Capture Before Snapshot taken you can proceed directly to installing and configuring the application.

---



4. Execute **L:\ZAV9\Apps\dia-setup-0.97**
5. From the *Installer Language* click **OK**
6. From *Dia 0.97 setup* click **Next**
7. From the *License Agreement* click **Next**
8. From *Choose Components* click **Next**
9. From *Choose Install Location* click **Install**
10. From the *Completing the DIA setup* page click **Finish**
11. From the ZENworks Application virtualization menu click **Capture and Diff**
12. Browse to **L:\ZAVWork\Projects**
13. Click create **Make New folder**
14. Name the folder **DIA**
15. Click **OK**

---

NOTE: Wait for the after snapshot to complete before proceeding

---

16. Click **Multiple** next to Startup File
17. **Uncheck Auto Start** for dia-manual
18. **Check Auto Start** for diaw
19. Click **OK**
20. For Output File enter **L:\ZAVWork\vDiaw.exe**
21. Click the **Setup** button on the left side
22. For **Output Location** enter **L:\ZAVWork\DIA.MSI**
23. **Check Automatically generate MSI after successful application build**
24. For Product Name enter **DIAW**
25. For Product Version enter **0.97**
26. For Company name Enter **The Free Software Foundation and the authors**

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NOTE: Notice that the Desktop shortcuts and file extensions have been captured from the snapshot process

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27. Click **Build**
28. Click **OK** when the build completes.

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NOTE: Now that the MSI has been built you will create a Bundle to distribute the application to your workstations

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29. Launch **vBrowsers** from **L:\ZAVWork**

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NOTE: If vFirefox2 is not located in L:\ZAVWork launch it from L:\ZAV9\completedapps

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30. Accept the Security Exception
31. **Login** into the ZCC as **Administrator** with the password of **novell**
32. Click **Bundles**
33. Click **VirtualApps** folder
34. Click **New | Bundle**
35. Select **Windows Bundle** and then Click **Next**
36. Click **MSI Application** and then click **Next**
37. For Bundle Name enter **Virtual DIA**
38. Click **Next**
39. Click the Magnifying glass next to **upload the .MSI file**
40. Click **Browse**
41. Browse to **L:\ZAVWork**
42. Select **DIA.MSI** and click **Open**
43. Click **OK**
44. Click **Next**
45. Click **Next**
46. Click **Finish**
47. In the Left hand pane of the ZCC click **Devices**
48. In the left hand pane under Device Tasks click **Assign Bundle**
49. Click **Add**
50. Click the **Blue arrow** next to Devices
51. Select **Workstations**
52. Click **OK**
53. Click **Next**
54. Click the Arrow next to **VirtualApps**
55. Select **Virtual DIA**
56. Click **OK**
57. Click **Next**
58. Check the **Distribution Schedule** checkbox
59. Click **Next**
60. Set the **Schedule Type** to **Now**
61. Check the box for **Install Immediately after Distribution**

62. Click **Next**
63. Click **Finish**
64. Go to the **XP-WS** virtual machine
65. **Right-click** on the **Z Icon** and click **Refresh**

---

NOTE: Wait for the Refresh to complete and DIA to Install before proceeding

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66. From the Windows start menu click **All Programs | DIA | Dia**
67. From the DIA File Menu click **Save**
68. Change the Save in folder: to **Desktop**
69. Click **Save**
70. **Exit** DIA
71. Double-click the **Diagram1** file on the desktop

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NOTE: You have just built and distributed an application with file associations and shortcut menu items. When a user selects the start menu shortcuts or double clicks on a .dia file the DIA application will start.

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72. Make the Win7-WS VM the active VM and Repeat Steps [Step 65 on page 11](#) through [Step 71](#)

### **Task V: Require ZENworks ZONE authentication to launch the executable**

Use the ZCM Integration to secure you application so only devices authenticated to the zone can launch the application

1. Make the ZAVXPPack VM your current VM.
2. From the *ZENworks Application Virtualization* main menu click **New**.
3. Click **Configuration Wizard**
4. Click **Build a virtual application from a template**
5. At the *Select an Application* screen, Select **7-Zip 4.57**
6. At the *Update configuration information* screen, Click **Next**
7. At the *Select Sandbox Location*, Click **Next**
8. At the *Select an ouptput file* screen, click **Next**
9. Browse to **L:\ZAVWork**
10. For the *File name* enter **v7-ZipDAZone**
11. Click **Save**
12. **Uncheck** Build the Virtual Application now

13. Click **Finish**
14. Click **ZENworks Icon**
15. **Check** *Require ZENworks Configuration Management Agent to be installed on workstations executing the virtual application*
16. **Check** *Only allow devices registered in specified zone to execute the application*
17. For the *ZENworks Server Address* enter **da-zcm.digitalairlines.com**
18. Click **Connect**
19. For *Username* and *Password* enter **Administrator** and **novell**
20. Click **OK**.
21. Click **OK**.

### **Task VI: Distribute the application using Bundle Publishing**

You can now use ZENworks Configuration Management to distribute the application. To do this:

1. Under *ZENworks Bundle Publishing* Set the **Project Type to Executable**
2. For *Bundle Name* enter **Virtual 7-Zip**
3. For *Bundle Folder* enter **VirtualApps**
4. For *Destination Path* enter **C:\Program Files\v7-Zip**
5. Check **Automatically publish applications as ZENworks bundle after build**
6. Click **Build**
7. Click **OK**
8. From the *ZAVXPPack virtual Machine* open windows explorer and browse to **L:\ZAVWork**
9. Double-click **v7-ZipDaZone.exe**

You will receive an error. You cannot run this application on this machine since it is not a registered device in the Zone.

10. Click **OK**
11. Launch **vBrowsers** from L:\ZAVWork

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NOTE: If vBrowsers is not located in L:\ZAVWork launch it from L:\ZAVWork\completedapps

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12. Login as **Administrator** with **novell** as the password
13. From the ZCC Click **Bundles**
14. Click **VirtualApps**
15. Click **Virtual 7-Zip**
16. Click **Edit** next to *Icon*

17. Click the **Magnifying Glass**
18. Click **Browse**
19. Browse to **L:\ZAV9\Graphics**
20. Select **7Zip**
21. Click **Open**
22. Click **OK**
23. Click **Publish**
24. Click **Finish**
25. From the ZCC Click **Devices**
26. Under *Device Tasks* click **Assign Bundle**
27. Click **Add**
28. Click the **Arrow** next to *Devices*
29. Click **Workstations**
30. Click **OK**
31. Click **Next**
32. Click the **Arrow** next to *VirtualApps*
33. Click **Virtual 7-Zip**
34. Click **OK**
35. Check **Desktop**
36. Click **Next**
37. At the *Schedules and flags screen*, click **Next**
38. Click **Finish**
39. Make **XP-WS** the Active Virtual Machine
40. If not logged in, login as **Jpark** with **novell** as the password.
41. **Right-click the Z icon** in the task bar and choose Refresh
42. When **Virtual 7-Zip** appears on the Desktop Double Click to **launch** the application.

---

NOTE: It will take a moment for the application to download and install

---

43. **Close** 7-Zip

---

NOTE: This time 7-Zip will run since you are on a device that is registered in the ZONE

---

44. Make the **Win7-WS** VM the active VM
45. **Repeat Step 40** through **Step 43 on page 13**

### **Task VII: Use Sandbox Merge to Modify a Virtual Application**

Sandbox Merge is a useful feature to modify either a template application or a custom application that has already been snapshotted and built. In this exercise use Sandbox merge to modify a previously created custom application.

1. **Revert** the ZAVXPPack VM to the Start Snapshot
2. **Start** the ZAVXPPack VM
3. Start **ZENworks Application Virtualization**
4. From ZAV Main Menu Choose **Open Configuration**
5. Browse to **L:\ZAVWork\Projects\Browsers**
6. Select **Snapshot**
7. Click **Open**
8. Run **L:\ZAVWork\vBrowsers.exe**
9. Click **I understand the Risks**
10. Click **Add Exception**
11. Click **Confirm Security Exception**
12. Exit **Firefox**
13. From ZAV Click **Sandbox Merge**
14. Click **Yes**
15. At the Sandbox Location click **OK**
16. For the Output file enter **L:\ZAVWork\vBrowsersSandBoxMerge.exe**
17. Click **Build**
18. When the Build is completed click **OK**
19. **Revert** the ZAVXPPack to the **Start Snapshot**
20. **Start** the **ZAVXPPack** VM
21. Launch **L:\ZAVWork\vBrowsersSandBoxMerge.exe**

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NOTE: Notice when the Browser Launches you do not have to confirm the security exception because it is already embedded into the application

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**(End of Exercise)**