

Using Integrated Template

IBM Application Runtime Expert for i

Document version: 1.0

To download the master version of this document, visit product home site:
<http://www.ibm.com/systems/power/software/i/are/index.html>

Table of content

1 Introduction.....	1
2 How to build an integrated template.....	2
2.1 Go to build options page.....	2
2.2 Specify integrated template build option.....	3
2.3 Running this new template on remote system.....	5
3 Advantages and disadvantages.....	6

1 Introduction

The IBM Application Runtime Expert for i (ARE) product is comprised of two main components. There is the product which comprises the ARE template editor (interface you use to actually create the templates) and the ARE core. The ARE core is shipped as part of the operating system. It is shipped and maintained via PTFs for SS1 option 3. This ARE core is delivered at no addition charge. Since there are two pieces to this product there are times that the ARE core code is up to date with the latest levels.

To keep the ARE core up to date, this requires that the remote systems all have the latest core PTF loaded and applied. At times this can be an unrealistic issue. There are many reasons that make it difficult for some systems to keep current. To solve this restriction, ARE provides another way to perform system check on remote system: **Integrated template**. The Integrated template means the template includes the ARE core and all attributes as defined by the template. When integrated template is used, ARE core PTF are NOT required on systems to be checked.

An integrated template bundles the ARE core runtime jars into the same physical jar as the template plugin and xml files are located. Makes for a single file for running ARE on the target system.

2 How to build an integrated template

Package the ARE core runtime into the same jar file as the template verification files.

2.1 Go to build options page

Once you have finished specifying ARE plugin options in a template, you are ready to build the template. There are some important options available to be configured under the 'Template build options' button. Figure 1 shows how to enter the build options page.

[Home](#) > [Plugin Selection and Customization](#)

Plugin Selection and Customization

Select and Customize Plugins For Template

Template name: **MyTemplate9** [?](#) [Learn more...](#)



▶ Files and Directories



▶ Software Requirements



▶ Network



▶ System Environment



▶ Advanced

Build template

Cancel

Template build options

Figure 1: Template build options entry button

2.2 Specify integrated template build option

Using Deployment Template Editor to build an integrated template is simple. Check the radio box of "Build template including the runtime core", as Figure 2 shows.

[Home](#) > [Plugin Selection and Customization](#) > [Template Build Options](#)

Template Build Options

[Edit the Template Configuration](#)

Template details [? Learn more...](#)

Name: MyTemplate9

Description:

Version: Auto increment

Build options [? Learn more...](#)

Built using
deployment
template 1.8.0
editor
version:

Application Runtime Expert core considerations

Build template without runtime core. Runtime will be on remote system by default.

Runtime core version must be at or higher than:

Build template including the runtime core. The remote runtime will not be used.

Application Runtime Expert core version to integrate: 1.6.7

Template build options

Build template that has been modified. This is the default option for template build.

Select and rebuild plugins based on the contents of this system.

Figure 2: Specify build integrated template option






Select the 'Build template including the runtime core. The remote runtime will not be used' option to cause this template to be built with the runtime code packaged inside the template. After pressing OK button on the Template Build Options page, you will be taken to the Plugin selection and Customization page. Press the Build template button to build the template.

Home > Plugin Selection and Customization

Plugin Selection and Customization

Select and Customize Plugins For Template

Template name: MyTemplate10 [Learn more...](#)

-  ▶ Files and Directories
-  ▶ Software Requirements
-  ▶ Network
-  ▶ System Environment
-  ▶ Advanced

Build template Cancel Template build options

Figure 3: Press Build template button to build the template

After build template process is complete, the GUI returns to the Deployment Template Editor page.

Deployment Template Editor

The Deployment Template Editor allows users to create, edit, import and export deployment templates. The editor enables users to customize their templates. Templates created, imported, or edited using this editor can be used to verify systems using the 'Launch console' button below. [Learn more...](#)

Manage templates:

	Name
<input type="radio"/>	MyTemplate1
<input checked="" type="radio"/>	MyTemplate10
<input type="radio"/>	MyTemplate2
<input type="radio"/>	MyTemplate3
<input type="radio"/>	MyTemplate4
<input type="radio"/>	MyTemplate5
<input type="radio"/>	MyTemplate6
<input type="radio"/>	MyTemplate7
<input type="radio"/>	MyTemplate8
<input type="radio"/>	MyTemplate9
<input type="radio"/>	wntst

Create Import Actions

Launch console



Figure 4: Manage template page.

Now the new template 'MyTemplate10' can be run on systems that do not have ARE core PTF applied.

2.3 Running this new template on remote system

There are 2 primary ways to run this template.

1. QSH on the remote system

Step 1: FTP or restore this newly created template on to the target system.

Step 2: Logon to your target system, and start Qshell:

```
STRQSH
```

Step 3: Since integrated template contains the complete ARE core, you can NOT use the ARE script runARE.sh to run integrated template. Start integrated template as a typical Java™ Application, like this:

```
java -jar /qibm/userdata/are/MyTemplate1.jar -outFile reportFile.txt
```

2. From the ARE console interface

Integrated template can be used with ARE console, but it is NOT required to use integrated template in console. The console will automatically take care of templates and runs them on remote system in a smart way (After ARE GUI version 1.7.8).

To use the console:

- Click on the 'Launch console' button to launch the ARE console interface.
- Specify target systems with user names and passwords, user, password and this newly created ARE template.
- Click 'Verify systems' button

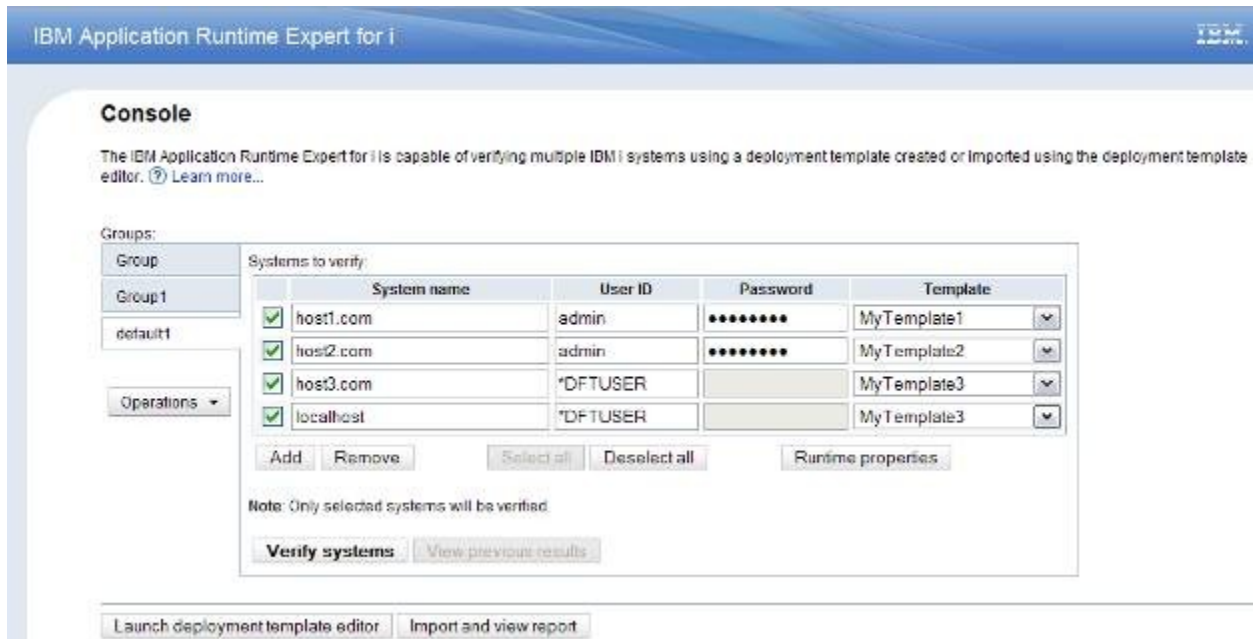


Figure 5: After clicking 'Launch Console' button, the ARE console interface is displayed.

3 Advantages and disadvantages

The integrated template avoids PTF requirement on target system. This is useful in some cases, but it has some disadvantages, as well as some advantages.

Advantages

- Ensures all function within the template can be run on remote system regardless of the ARE core fix level.
- Provides a complete and consistent solution for ISVs or those that have systems that don't keep up to the latest service levels.

Disadvantages

- An integrated template has a bigger file size. Approximately 1 mega bytes.
- Because ARE core is built into the template, any new features, enhancements, and bug fixes will not be available for the template. You will need to rebuild this integrated template to pick up any fixes and enhancements for a new release of ARE core binaries.
- You need to start integrated template using the java command, rather than the runARE.sh script. This means that you may need to identify and specify a correct Java home, according to your system environment, if that's not set in your QSH environment. An example for using IBM J9 1.5:

```
export JAVA_HOME=/QOpenSys/QIBM/ProdData/JavaVM/jdk50/32bit
```

<End of document>