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IBM WebSphere Application Server

Profile management tool

WebSphere software
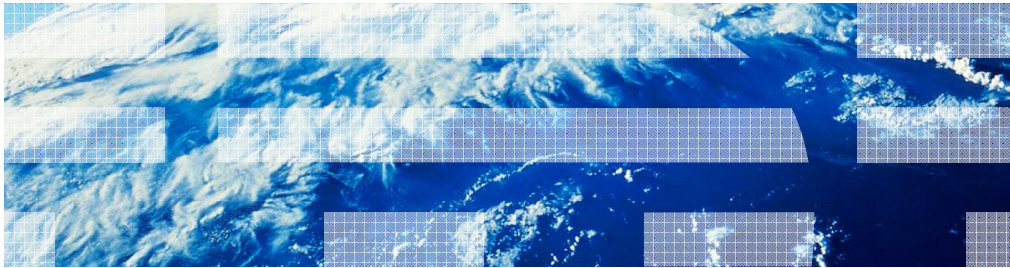
This presentation describes the WebSphere customization toolbox.

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The PMT (Profile Management Tool) GUI, which is contained within the WCT framework GUI, is covered in this presentation.

Overview of features

- To provide user interface for profile creation and augmentation for various topologies
- To provide default values and validation against user inputs
- Available from WebSphere Application Server installation (embedded) or a separate WebSphere customization toolbox (WCT) installation (stand-alone)
- Server runtime performance tuning option has been introduced in V8
  – Standard for general purpose
  – Peak for infrequent application updates
  – Development for less powerful hardware and frequent application updates
- Profile Management Tool (PMT) for a development environment with predefined configuration parameters can be launched at the end of WebSphere Application Server installation in V8
- Samples configuration is not supported in V8
- Enhanced Bidirectional support in V8
- V7 PMT reference at
  http://publib.boulder.ibm.com/infocenter/ieduasst/v1r1m0/index.jsp?topic=/com.ibm.iea.was_v7/was/7.0/InstallationAndMigration/WASv7_InstallationOverview/player.html

The PMT provides a graphical user interface for the back-end profile management runtime. It provides an intuitive user interface for guiding you through the steps for entering the necessary values required for WebSphere Application Server profile creation and augmentation. It also suggests default values and performs validation against your input values interactively to prevent possible failures that could occur at a later time during profile creation.

In V7, the PMT was only shipped as part of WebSphere Application Server installation. In version 8, a stand-alone version is available and can be installed during WebSphere customization toolbox (WCT) installation.

Now, some new features and changes in version 8 will be examined. There is a server runtime performance tuning option introduced in V8 for advanced profile creation. You can choose one of the three available options: Standard, Peak, and Development.

The standard settings are optimized for general purpose usage with conservative settings. The performance monitoring infrastructure service is enabled to gather statistics so you can further tune the server yourself. The peak settings are optimized for runtime performance in environments where updates to applications are infrequent, and the development settings are optimized for environments with less powerful hardware and where updates to applications are frequent.

There is also a simplified version of PMT that creates a profile with predefined configurations and the development settings. This version can be launched at the end of a WebSphere Application Server installation. The way of invoking this version of PMT will be explained in the Usage slides.

The Samples configuration during the tool execution is not supported in version 8. Also, enhanced BIDI is supported.
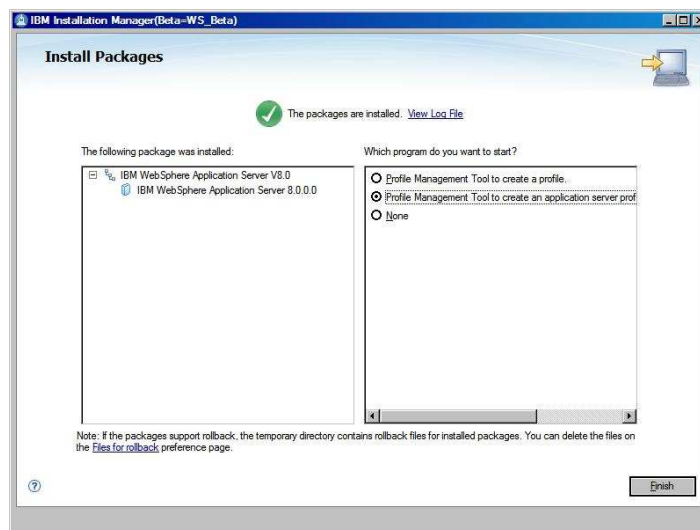
Usage scenarios – Performance tuning
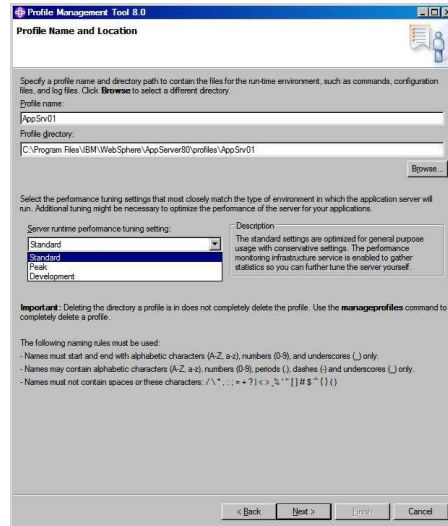
This is one of the PMT panels with which you can select a server profile performance tuning setting.

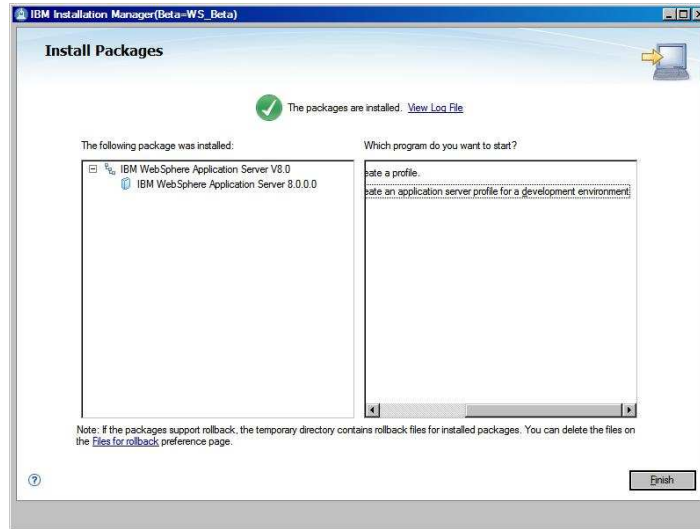Usage scenarios – Using developer version (1 of 4)

This screen capture shows the installer panel at the end of the server installation. On the right panel, you can choose the first radio button to launch the regular version of PMT. The development version can be launched when the second radio button is selected. You also have an option exiting the installer without invoking the PMT.

Another screen capture of the PMT launch option view.

Usage scenarios – Using developer version (3 of 4)

Profile Management Tool 8.0

Administrative Security

Choose whether to enable administrative security. To enable security, supply a user name and password for logging into administrative tools. This administrative user is created in a repository within the application server. After profile creation finishes, you can add more users, groups, or external repositories.

☐ Enable administrative security

User name:

Password:

Confirm password:

See the information center for more information about administrative security.

View the online information center

< Back   Next >   Finish   Cancel
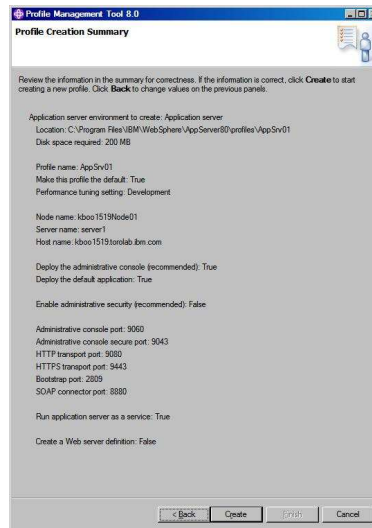
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The development version of PMT is launched and this is the first panel shown. You have an option of selecting (or not selecting) the administrative security configuration.
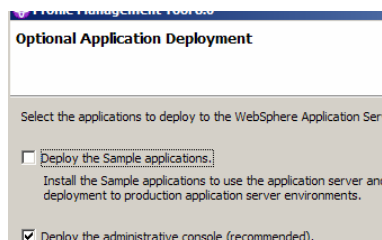
This is the second and the last panel of the PMT for a development environment that shows the profile configuration summary before starting a profile creation.

Version 8.0 PMT samples removal (1 of 2)

- The optional deployment of installed sample applications has been removed from Profile Management Tool (PMT)
  - In WebSphere Application Server V7, when creating a default or cell profile using the PMT, you could optionally deploy installed sample applications
  - In WebSphere Application Server V8, this option is removed, and deploying the sample applications is not possible using PMT
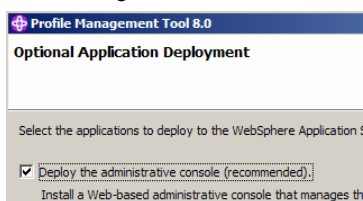
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Before V8, if the WebSphere Application Server installation included the sample applications, the PMT allowed the optional deployment of the samples.

In V8, this function has been removed from the PMT.

The visual impact to PMT consists of the elimination of the "Deploy the Sample applications" check box from the "Optional Application Deployment" panel.

Version 8.0 PMT samples removal (2 of 2)

- In V7 PMT, the subsequent Administrative Security panel prompted for the associated Samples password

- In V8 PMT, this prompt is removed

A further impact of Samples removal from the PMT is the elimination of the "Sample applications" widget group from the PMT "Administrative Security panel".

Version 8.0 command line samples removal

- In V7, when creating a default or cell profile with the manageProfiles command, installed sample applications would be deployed by default.

- In order to prevent deployment, "-omit samplesInstallAndConfig" would be specified on the manageProfiles command.

- Also, when deploying samples, the "–samplesPassword" parameter was required if administrative security was being enabled for the profile.

- In V8, deployment of the sample applications is not possible, and the "-omit samplesInstallAndConfig" and "–samplesPassword" parameters are no longer supported

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Before V8, the manageprofiles command, by default, deployed the sample applications (if they were installed with WebSphere Application Server).

In V8, the manageprofiles command no longer, by default or otherwise, supports the deployment of the sample applications.

Version 8.0 command line performance tuning (1 of 2)

- Finer grained profile create-time Performance tuning enhancements were introduced in V7 with FIS Feature F004844.

- This function was delivered in V7 Fixpack 7.0.0.11.

- Only applies to default / single server profiles.

- Before this feature, the manageprofiles –create command for an application server profile would, by default, result in a "production" optimized profile.

- The optional "-isDeveloperServer" parameter can be specified to override this default and result in a profile better optimized for development environments

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The V8 (and as of V7 fixpack 7.0.0.11) manageprofiles command supports enhanced default/single server profile performance tuning.

As a result, the previous "-isDeveloperServer" parameter is no longer supported.

Version 8.0 command line performance tuning (2 of 2)

- With the introduction of Fixpack 7.0.0.11 (and now in V8), the "-isDeveloperServer" parameter is replaced by the optional "–applyPerfTuningSetting" parameter.

- Valid values for this parameter are "standard", "peak" and "development"

- Specify "-applyPerfTuningSetting standard" for a conservatively optimized profile. Note that this is now the default optimization level.

- Specify "-applyPerfTuningSetting peak" for a production optimized profile.

- Specify "-applyPerfTuningSetting development" for a development optimized profile. Note that this is equivalent to previously specifying "-isDeveloperServer" in pre-V7.0.0.11.

- Performance tuning trace log is located at <profilePath>/logs/perfTuning.log

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The previous "-isDeveloperServer" parameter is now replaced with the more expressive "-applyPerfTuningSetting" parameter.

Note that before this enhancement, by default, the profile can be created with "production" level optimization whereas now, "standard" level optimization is applied.

Bidirectional text support

- In V8, the Profile Management Tool (PMT) has improved support for bidirectional text.
- Paths now display in a manner which is bidirectional text aware.
  - This means that each segment of that path is treated separately as far as bidirectional handling is concerned.
  - This means that now, the path hierarchy will always be displayed left-to-right even if elements of the path have right-to-left text. In the following example, note that "123" is a subdirectory of "אָלֶף-בֵּית עִבְרִי" yet renders in reverse in V7.
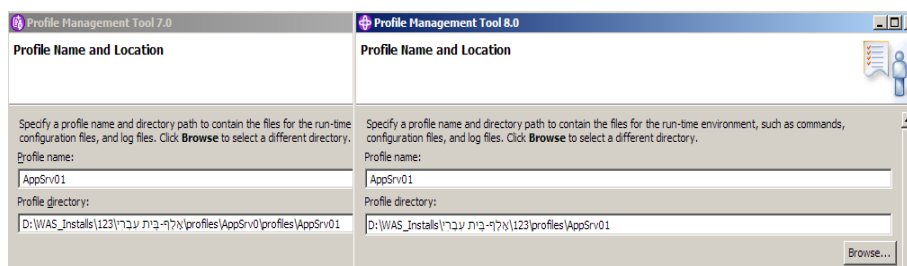
Profile management tool

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This means that now, the path hierarchy will always be displayed left-to-right even if elements of the path have right-to-left text. In the example shown in the screen capture, note that "123" is a subdirectory of "אָלֶף-בֵּית עִבְרִי", yet renders in reverse in V7.

Bidirectional text support

- In addition, you can override the "base text direction" by adding an entry to <WAS_HOME>/properties/wct.properties

- Paths now display in a manner which is bidirectional text aware.
  - "TEXT_DIRECTION=RTL" or "TEXT_DIRECTION=contextual" for example.
  - This feature is not functioning in GA due to a defect. The defect should be corrected in an early fix pack

In addition, starting in an early fix pack of version 8, you will have the capability to override the "base text direction" by adding an entry to <WAS_HOME>/properties/wct.properties file:

"TEXT_DIRECTION=RTL" or "TEXT_DIRECTION=contextual" for example.

Additional links

- Installing and using the WebSphere customization toolbox
  http://publib.boulder.ibm.com/infocenter/wasinfo/v8r0/topic/com.ibm.websphere.installation.nd.doc/info/ae/ae/tins_wct.html

- Installing and configuring web server plug-ins
  http://publib.boulder.ibm.com/infocenter/wasinfo/v8r0/topic/com.ibm.websphere.base.doc/info/aes/ae/tins_webplugins.html

- Configuring a web server plug-in using the WCT command-line utility
  http://publib.boulder.ibm.com/infocenter/wasinfo/v8r0/topic/com.ibm.websphere.base.doc/info/aes/ae/tins_pctcl_using.html

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This slide presents Information Center links pertaining to WebSphere customization toolbox (WCT)

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