

Overview: What's new

- Remote DB install
- Cluster install
 - ▶ Start with remote DB install and grow to clustered environment
- Non-default WAS profile support
- Linux[®] support
- Custom LDAP support
- Remote Web Server support

As you can see, IBM Lotus Expeditor 6.1 Server includes several new features

The server now supports using either a local or remote database server. Remote or Local database can be selected at install time. The remote database install allows for advanced configurations including clustering.

The normal install still uses a simple single box install. However now the single box install can grow to a managed environment where additional cluster members can be added. Growing the environment is only supported when the initial install uses a remote database. The previous restriction on installing into the default profile has been removed. Now non-default profiles are supported.

In addition to the existing support for Windows, the server now supports installs on Linux.

We also support using LDAP servers besides Active Directory 2003. Configuring a custom LDAP is done using command line utilities. Configuring the server to use Active Directory 2003 is still done through the configuration wizard.

Command line utilities are also available to configure the server to use a remote web server.

Overview: Design goals

- Simplify the installation and configuration interface
 - ▶ Hide the underlying configuration ANT tasks and property files
 - ▶ Provide an initial out-of-the-box security configuration
 - ▶ Default as much as possible and limit choices
 - ▶ Do NOT install prerequisite products
 - ▶ Provide configuration wizard for common post-install configuration tasks
- Keep it quick

The installation process is designed to be simple and able to recover from errors. The initial install, defaults many parameters and limits some choices in an effort to ensure the install is successful. Configuration tasks are available to perform common post-installation tasks.

By defaulting most options, we remove the need to expose many ANT tasks and property files. The install provides a simple security configuration during the initial configuration, but a configuration wizard and command line options allow for changing the security settings afterward.

To simplify the process and speed the install we do not install prerequisite products. Instead we validate the prerequisite software is installed and is at the correct level.

A configuration wizard provides the ability to change administrator and database passwords. It also provides steps to upgrade the user registry to Active Directory and it provides a path to configure a clustered environment.

The overall goal is to keep the initial install quick and error free.

Overview: Packaging

- Packaged on 1 CD per operating system
 - ▶ Launch pad, Expeditor installer and configuration wizard
 - ▶ Core services (common user registry, user management)
 - ▶ Device Management
 - ▶ DB2® Everyplace®
 - ▶ MQ Everyplace
- No prerequisite products are included
- MQ Everyplace SupportPac™ can be downloaded from the web

The server install is packaged on one CD for each platform. One for Windows; another for Linux. Each CD contains the launch pad and the components needed to install the server. It does not include any prerequisite software, such as WAS or DB2.

The MQ Everyplace SupportPac can be downloaded from the web

Expeditor Clients are packaged on a separate CD.

Overview: Configuration requirements

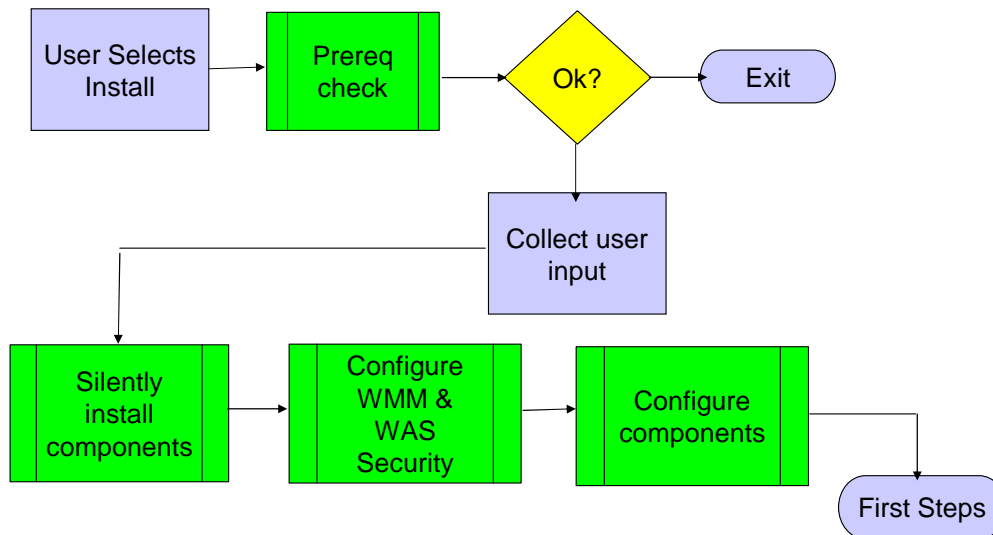
- WebSphere® Application Server
 - ▶ Security cannot already be enabled in the target profile
 - ▶ Cannot be a managed node (part of a cell)
- Windows
 - ▶ Require local administrator id for install/uninstall (no domain install)
- Linux
 - ▶ Require DB2 profile configured for root user
 - ▶ Require DB2 profile configured for setupCmdLine

When installing the IBM Lotus Expeditor 6.1 Server, the environment must meet certain configuration requirements. The WebSphere Application Server profile cannot have security enabled. The node also cannot be part of a cell. Being part of a cell or having security enabled will cause problems when the installer configures its own local security configuration.

On Windows, the installer must be run by a local administrator having access to the system. Logging in as a Domain administrator will cause problems for the install.

On Linux, the db2profile must be sourced in the root user's environment. If not, the install will prompt for the DB2 instance user to use, and it will source the db2profile for you. The install also requires that the db2profile be sourced at the beginning of the WAS setupCmdLine.sh file. This ensures that when an application server is started, it will have the DB2 libraries and environment variables configured correctly.

Overview: Flow



This diagram shows the flow of the install.

The user starts by selecting “install” from the launchpad options.

The installer will prompt for some basic information and it will validate that all the prerequisite software is there and at the right level.

The installer will continue to gather remaining information from the user and display a summary screen.

Once the user clicks past the summary, the install starts. It installs the components silently and then executes ANT tasks to configure components.

Finally it gives an option to display First Steps. From there you can validate that the install completed successfully and you can launch the configuration wizard for post-install configuration.

Installation Process

- User sees two phases of the install process: installation and configuration
- Installation phase consists of:
 - ▶ Checking prerequisites
 - ▶ Collecting/Validating user input
 - ▶ Copying files
 - ▶ Updating registry entries, start menu entries, etc.
- Configuration phase consists of:
 - ▶ Creating databases
 - ▶ Configuring WebSphere Application Server with WMM for security
 - ▶ Deploying Enterprise Applications (EARs)

The install process consists of two phases (installation and configuration).

The installation process checks prerequisites and gathers input from the user. Then it copies files to the system and configures the Windows registry and start menu entries.

The configuration process creates databases, configures WebSphere security and deploys the Enterprise Applications that make up the Expeditor Server services.

Installation process (cont.)

- The install phase and configuration phase are handled by two separate executables
- Default behavior is after install phase completes, configuration phase is automatically launched.
- User has option to stop before the configuration phase starts
- Why?
 - ▶ To allow the application of maintenance before the configuration starts
- How do you restart the configuration?
 - ▶ Open a command window
 - ▶ Go to <Expeditor install root>\config
 - ▶ run config.bat or config.sh

Each of these phases are performed by separate executables. The installation process starts the configuration process as it exits, and the configuration process continues the overall install process. There is an option to have the install pause before starting the configuration phase. This allows updates and maintenance to be applied before starting the configuration.

If you decide to pause, you can restart the configuration by opening a command window and finding the Expeditor/config directory in the Expeditor install root. Then run the configuration script to start the configuration process. On it's first run, the configuration is designed to run without any user interaction.

Installation overview: Restrictions

- Lotus Expeditor cannot be installed into the following environments:
 - ▶ Same machine as Active Directory (a domain controller)
 - ▶ Managed Node

There are environment restrictions on installing Expeditor server. It cannot be installed on the same server as Active Directory (a domain controller) It also cannot be installed into a managed node. Adding the node to a managed environment can be done later via the configuration wizard.

Remote DB

- Expeditor can be configured with a remote database
- Scripts are provided to create the database on the database server.
- During install database server information will be prompted for and will be validated
- There is no migration path from local database to remote database

The Expeditor server can be configured to use a local or a remote database. Scripts are provided to run on the database server to create and configure the remote databases. During the install, the remote database path will prompt for the remote server hosting the database.

There is no migration path from a local database server to a remote database server. So for example, if you want to cluster the server sometime later, you must start with a remote database.

Clustering

- Start with a remote database install
- Use configurator tool to:
 - ▶ Convert to active directory
 - ▶ Configure node and cell for clustering
 - ▶ Create initial clusters
 - ▶ Create response file for additional clusters
- Additional clusters can be installed from Launchpad option

The server now support clustering. The clustering design starts with a single box install with a remote database. Once that install is complete and verified, there are a set of configuration steps to perform to cluster the server.

First, you upgrade the user registry to Active Directory or a custom LDAP

Then you configure the node and cell for clustering. This includes configuring cell security and adding the node to the cell. This process supports the cell already having security enabled as long as that security configuration matches the Expeditor Server security configuration.

Finally you create the initial clusters. This step also generates a response file that can be copied to other systems and used to install additional cluster members.

The launch pad contains an option to launch the installer in a special mode designed specifically for installing additional cluster members.

Non-Default WebSphere Application Server profile support

- Previously the install required using the default profile
- Now any WebSphere Application Server profile is supported as long as:
 - ▶ Not managed
 - ▶ Security not enabled
- Does not need to be the default profile
- Can be named something other than “default”
- Can be a new profile created just for Expeditor

Previously, installs were required to be installed into the default profile.

This limitation has been removed. Any profile can be used as long as it is not part of a managed environment and it does not have security enabled.

If you have multiple profiles, you do not have to install the server into the profile marked as default.

You can also name the profile something besides “default”.

You could even create a new profile to isolate the Expeditor server from other applications on the machine. However, this is not required.

Linux Support

- Supports RedHat Enterprise Linux 4 update 1, 2, or 3
- Installing WebSphere Application Server 6.0.2 requires some additional instructions available at:
 - ▶ <http://www-1.ibm.com/support/docview.wss?rs=180&uid=swg21201306>

The IBM Lotus Expeditor 6.1 Server now supports installs on RedHat Enterprise Linux 4. To use RedHat Enterprise Linux 4 with WAS 6.0.2, there are some additional instructions available at the IBM Support URL listed.

Custom LDAP support

- Command line utility allows using a custom LDAP for the user registry instead of Active Directory

The configuration wizard provides a path to upgrade the user registry from a local database table of users to an Active Directory LDAP. However, if you want to use a different LDAP, we now provide documentation and command line tools to upgrade the security configuration to use a custom LDAP.

Remote Web server support

- Command line utility allows configuring a remote web server

The initial server install requires an IBM HTTP Server to be installed and configured locally to the server. As your environment grows, you may want to move the web server to a remote system to better manage resources. We now provide documentation and command line utilities to configure the Expeditor server to use a remote web server.

Summary

- Keep it simple
- Grow to more complex environments

So you can see that the installation has maintained the goal of keeping it quick and simple. However we now support more options to grow the environment into more complex scenarios.

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