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System Administration

System administration of WebLogic Server includes a wide range of tasks: creating WebLogic Server domains, deploying applications, migrating domains from development environments to production environments, **monitoring and managing** the performance of the runtime system, configuring and managing security for applications and system resources, diagnosing and troubleshooting problems, and more. **3**

This chapter includes the following topics:

- [Overview of WebLogic Server System Administration](#)
- [Choosing the Appropriate Technology for Your Administrative Tasks](#)
- [Summary of System Administration Tools and APIs](#)
- [Roadmap for Administering the WebLogic Server System](#)

Overview of WebLogic Server System Administration

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WebLogic Server provides several tools for system administrators: the browser-based WebLogic Server Administration Console and Fusion Middleware Control; the WebLogic Scripting Tool (WLST), a scripting language for automation of WebLogic system administration tasks based on Jython; a robust set of RESTful management interfaces; SNMP; the Configuration Wizard; and several command-line utilities.

Because the WebLogic Server management system is based on Java EE and other standards, it integrates with systems that are frequently used to manage other software and hardware components. In addition, WebLogic Server implements the Java EE Java Management Extension (JMX) specification, which allows programmatic access to the WebLogic Server management system. Using this API, you can create custom administration utilities or automate frequent tasks using Java classes.

The following sections provide an overview of system administration for the WebLogic Server component of your development or production environments:

- [Choosing the Appropriate Technology for Your Administrative Tasks](#)
- [Summary of System Administration Tools and APIs](#)

For information about installing WebLogic Server, see *Installing and Configuring Oracle WebLogic Server and Coherence*.

For information about using Fusion Middleware administration tools, such as the Oracle Enterprise Manager Fusion Middleware Control, Oracle Fusion Middleware command-line tools, and the Fusion Middleware Control MBean Browser, see Overview of Oracle Fusion Middleware Administration Tools in *Administering Oracle Fusion Middleware*.