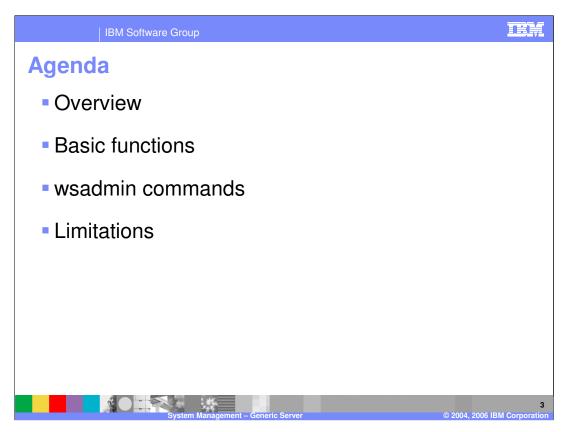


This presentation will focus on Generic Servers in WebSphere Application Server V6.



The goal of this presentation is to give you an overview of Generic Server – what it is and how it is supported in V6.



This presentation will cover an overview, basic functions, wsadmin commands and some limitations.

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Generic server: Overview

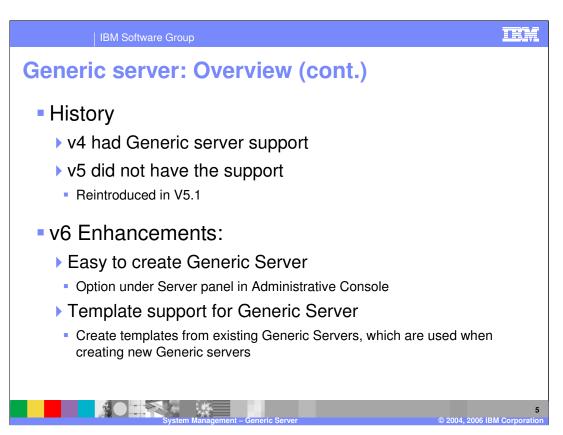
- A "Generic Server" is a server being managed in the WebSphere administrative domain but it is not a server supplied by the WebSphere Application Server product -They are of 2 types:
 - Java™ applications or processes (Java class or executable JAR)
 - Non-Java applications or processes
- Used when you need another application controlled from WebSphere Application Server
 - For example, you may require it to be running for your J2EE applications
- Generic servers are administered using any Administrative Clients
 - For Stand-alone Application Server environment, you can create or modify the Generic server from the Administrative Console



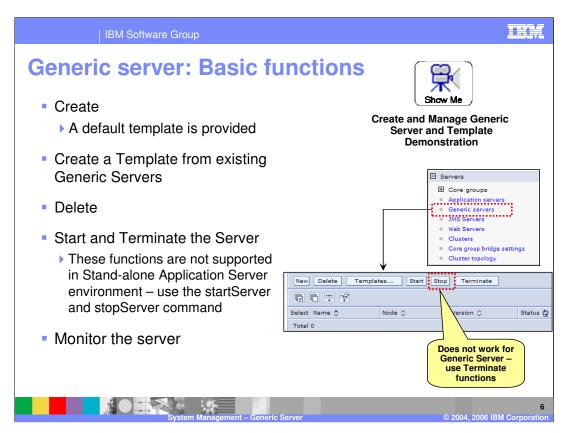
Generic Servers are non-WebSphere processes that you can control with the Administrative clients. They are mainly used for applications that require other processes to be running. You can control the starting and terminating of the Generic Servers from using the Administrative Clients.

Examples of Non Java applications include C or C++ Servers, CORBA Server, and so on.

An example of a use case for the Generic Server is where your J2EE application may require that a CORBA server be started. Defining the CORBA server as a Generic server, you can use WebSphere administration to start the CORBA Server and your J2EE application.



Generic Server support returns in V6, with some usability enhancements in the ease of creating Generic servers and with support for Generic Server template.



The Administrative Console and wsadmin scripts provide the basic functions to create and manage Generic Servers. Pause this presentation and click on the Show Me icon for a short demonstration of creating, starting and terminating Generic servers and creating templates from existing generic servers. Note that the Start and Terminate functions are not available in a Stand-alone Application Server environment. Use wsadmin commands in that environment. Also note that the Stop function does not work for Generic Servers – use Terminate function instead.

Monitoring allows you to remotely monitor whether the program is running or not.

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Generic server - start and stop server commands

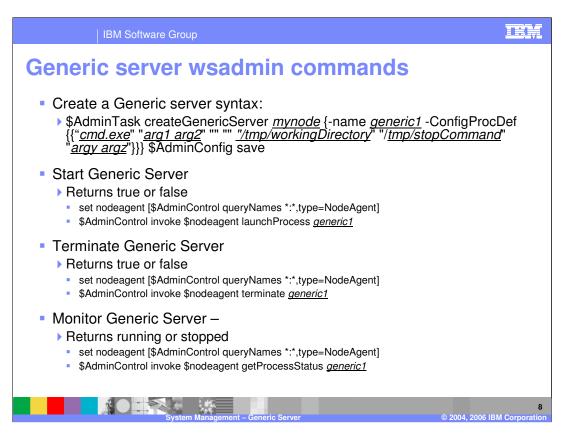
- Start, stop server and server status commands also work on Generic Servers
- Examples
 - startServer genericServer01
 - Starts the generic Server "genericServer01" defined in the default profile
 - startServer –profileName AppSrv01 genericServer01
 - Starts the generic Server "genericServer01" defined in profile "AppSrv01"
 - stopServer –profileName AppSrv01 genericServer01
 - Stops the generic Server "genericServer01" defined in profile "AppSrv01"
 - serverStatus –profileName AppSrv01 genericServer01
 - Returns the status of the generic Server "genericServer01" defined in profile "AppSrv01"

System Management - Generic Server © 2004, 2006 IBM Corporation

The start, stop server and server status commands have been enhanced to work on

Generic Servers, just as well as they work on the Application Servers.

Listed on this page are examples of using these commands on generic servers. Note that if a profileName option is not provided, the command will work on the default profile, as shown in example 1. The remaining examples specify a profile name for the commands.



This slide shows the basic wsadmin commands used for managing Generic Servers. The listed examples show the commands using JACL scripts. Refer to the WebSphere Application Server V6 Information Center for more details and commands in Jython.

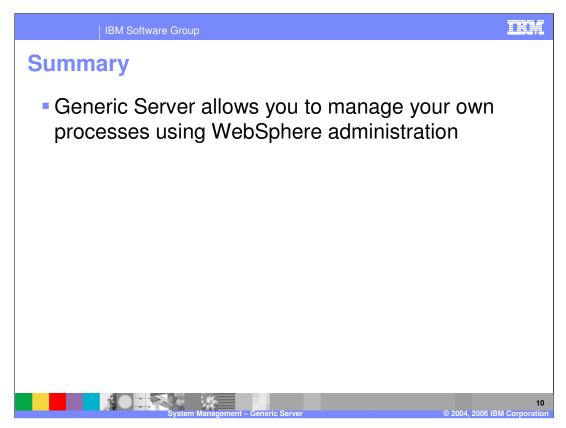
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Limitations

- Cannot monitor or terminate a generic servers that are launched using a shell script
 - ▶ This is because the WebSphere Application Server logic receives the process ID (PID) for the process it launched, but not any child of that process
 - Without access to the PID, the WebSphere Application Server code cannot attach to, monitor, or terminate a process



WebSphere Application Server can only monitor Generic Servers that it has launched. If you have a Shell script as your generic server, WebSphere has no way of knowing what the shell script launches. Therefore, you should not define Generic Servers that are launched using scripts, if you need the ability to monitor or terminate that process.



In summary, Generic servers allow you to manage non-WebSphere processes from within WebSphere Application Server.



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