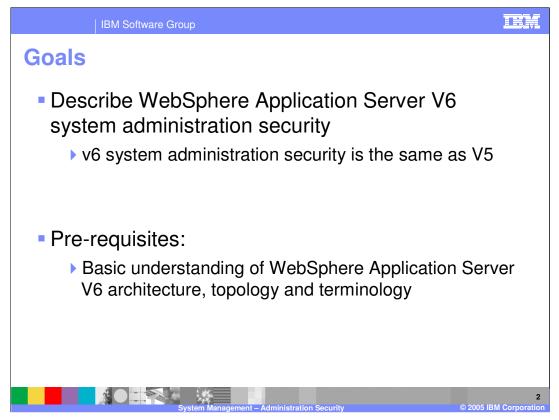
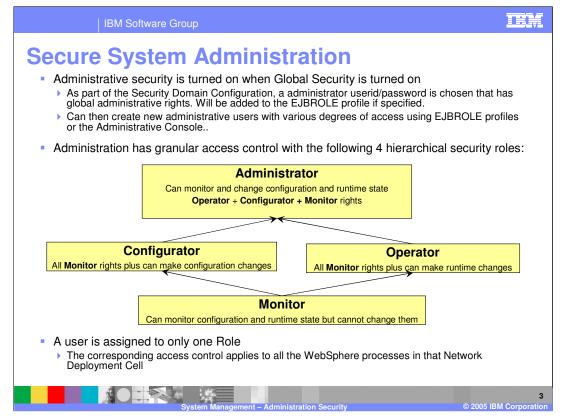


This presentation will focus on WebSphere Application Server Administrative Security.



The goal of this module is to briefly describe security of the Administrative Console.



Once security is enabled, the administrative console is secured. Users will be required to authenticate with a valid ID and password. Some installations will elect to disable Java<sup>™</sup> 2 security and application security, but protect the integrity of the configuration by restricting administrative access.

Since WebSphere version 5, the Administrative Security subsystem defines four security roles: monitor, configurator, operator, and administrator. A monitor can observe system state and configuration data but cannot make changes. A configurator security role is a monitor who can make changes to the configuration data. The operator security role is a monitor who can change runtime state. For complete capabilities the administrator role, which is essentially a configurator and an operator, can be assigned.

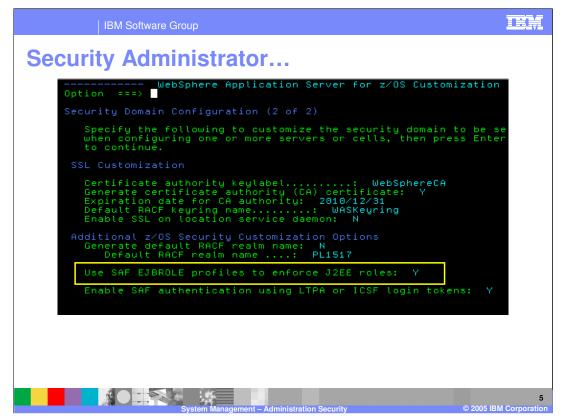
If a user is assigned the operator role, they will have the ability to start and stop servers throughout the entire cell. Monitors will have the ability to view all the servers in the cell and configurators will have the ability to change any server in the cell as the role is applied to all the servers and resources in the cell.

It is not possible for a user to have administrative access control such as Operator on one set of servers in a cell and access control such as Configurator on another set of servers in the same cell.

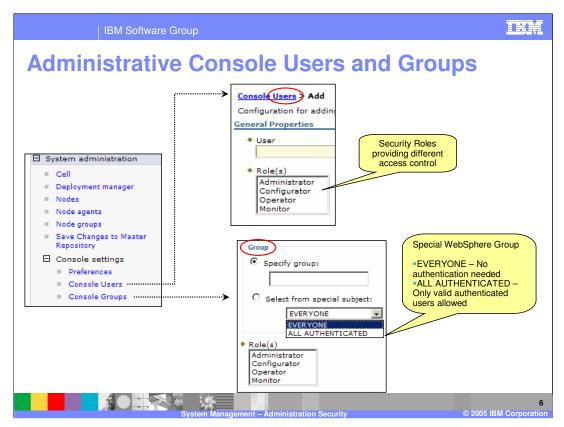
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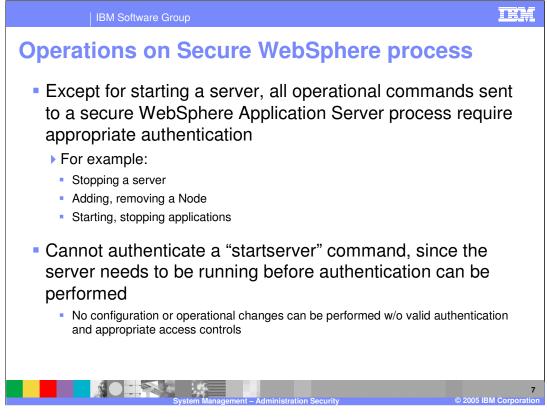
When configuring the Security Domain, an Administrator userid and password is supplied. The BBOSBRAK job that runs as part of the configuration will define the userid selected to SAF, making it a part of the **configuration group**. As you will see on the next slide, if SAF EJBROLEs are specified to enforce J2EE roles, the configuration will be added to the **administrator** EJBROLE RACF profile. Other profiles that will be defined are **monitor**, **configurator** and **operator**. Other users can be PERMITed to these EJBROLES as needed.



By specifying **Y** for the question highlighted on this slide, the SAF EJBROLE profiles will be used to determine user authority to use the Administrative Console. This will translate to setting the custom property 'com.ibm.security.SAF.authorization' to **true**. If SAF EJBROLE profiles are not used, the next slide shows how to add console users and groups.



This slide illustrates where in the administrative console the various roles can be configured if you are not using SAF EJBROLE profiles to enforce J2EE roles. The System administration panel is on the left side of the Administrative Console. You can add users individually to the Administrative Console roles, or you can specify a group to have certain access. The groups or users must already be defined in SAF before being added here in the Administrative Console.



Once security is enabled, it is necessary to restart the application servers so that the security configuration information is implemented by the running processes. From that point on, all operations will require authentication except for starting the server. The reason for this exception is that until the server starts, it cannot authenticate a user.



In summary, the administrative roles provide a level of granularity that allow you to give different access controls to different users, based on the four security roles.

