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An Overview of IBM Tivoli Access Manager for e-business Version 6.0 Enhancements

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Objectives

Upon completion of this unit, you will be able to:

- Explain the enhancement themes for IBM Tivoli Access Manager for e-business version 6.0.
- List the key enhancements in IBM Tivoli Access Manager for e-business version 6.0.

IBM Tivoli Access Manager for e-business Version 6.0 Themes

- **Ease of Deployment**

- LDAP registry improvements
- External authentication interface (EAI)
- Infrastructure scalability
- Installation and upgrade

- **Transparency**

- Virtual hosting
- Transparent path junctions
 - Avoid the need for URL modification and filtering

- **Session Management Server**

- Inactivity timeouts, concurrent session limit, and so forth

- **Common Audit and Reporting Services (CARS)**

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Ease of Deployment: LDAP Registry Improvements

- **Reduced footprint for directory data**
 - New data model reduces number of entries per user
- **IBM Tivoli Access Manager unique data not stored in shared part of directory tree**
 - Only shared user and group objects are stored
- **IBM Tivoli Access Manager information stored in secAuthority=Default**
 - A single object contains all basic information
 - This means less calls to LDAP
 - Additional objects for policy and GSO data

Ease of Deployment: IBM Tivoli Directory Server 6.0

- **IBM Tivoli Directory Server version 6.0 can coexist with previous versions**
 - Can install IBM Tivoli Directory Server version 6.0 client with version 5.x client or server
 - Allows IBM Tivoli Access Manager version 6.0 to use IBM Tivoli Directory Server version 5.x
- **Multiple instances of IBM Tivoli Directory Server version 6.0 on one machine**
 - Each one has its own back-end database
 - Can even use different versions of DB2
 - Useful for migration testing
- **Replication enhancements**
 - Conflict resolution
 - True multi-master (multiple write masters being used in parallel)
 - Replication now multi-threaded

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Ease of Deployment: Infrastructure

- **Support for latest IP level (IPv6)**
- **Export, import, and clone**
 - ACLs, POPs, and authorization rules
 - Easier policy replication from test to production
- **Platforms**
 - Added Solaris 10, and SLES 9
 - See upcoming platform charts for more details
- **Interoperability**
 - Interoperability going back to version 4.1

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Ease of Deployment: Installation and Upgrade

- **Installation improvements**
 - Disk space checking, Tivoli License Manager enablement
- **Upgrade and migration**
 - Migration guide
- **Languages**
 - German, Spanish, Brazilian Portuguese, French, Italian, Japanese, Korean, Traditional Chinese, Simplified Chinese, Czech, Hungarian, Polish, Russian

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Platform Support: IBM Tivoli Access Manager Base for UNIX and Windows

8

	AIX 5.1, 5.2, 5.3	Solaris 8, 9, 10	HP-UX 11i V1	Windows 2003 Server	Windows XP
TAM Runtime	P	P	P	P	P
AM Java Runtime	P	P	P	P	P
Policy Server	P	P	P	P	X
Authorization Server	P	P	P	P	X
ADK	P	P	P	P	P

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Platform Support: Linux

	Linux Intel	Linux iSeries, pSeries	Linux zSeries
TAM Runtime	P	P	P
AM Java Runtime	P	P	P
Policy Server	P	P	P
Authorization Server	P	P	P
ADK	P	X	P

Directory Support

- **IBM Tivoli Directory Server**
 - 5.1, 5.2, 6.0
- **IBM z/OS Security Server**
 - 1.4, 1.5, 1.6
- **Novell eDirectory 8.6.x and 8.7.x**
- **Sun ONE Directory Server 5.1**
- **Sun Java System Directory Server 5.2**
- **Lotus Domino Enterprise Server**
 - 5.0.10, 6.0.2 and 6.5
 - IBM Tivoli Access Manager on Windows only
- **Microsoft Active Directory 2000 and 2003**
 - IBM Tivoli Access Manager Policy Server on Windows only

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Platform Support: Web Portal Manager

- **WebSphere 6.0 – Single Server on Express or Application Server**
 - Window 2003 Server
 - AIX 5.1, 5.2, 5.3
 - Solaris 8, 9, 10
 - Intel, pSeries and zSeries
 - SuSE Linux Enterprise Server 8 and 9
 - HP-UX 11iv1
- **Single Server supported on**
 - WebSphere 6.0 Express, Application Server or ND
- **Cluster installation supported on WebSphere 6.0 ND**
- **Web Portal Manager requires WebSphere fix pack 2**

Platform Support: WebSEAL and Web Application Development Kit

- Windows 2003 Server
- AIX 5.1, 5.2, and 5.3
- Solaris 8, 9, 10
- RedHat Enterprise Linux Server 3.0, and 4.0
 - Intel, zSeries
- SuSE Linux Enterprise Server 8 and 9
 - Intel, zSeries
- HP-UX 11i V1

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Web Server Support: Plug-In for Web Servers

- **Apache 1.3.27**
 - Solaris 8 & 9
 - Linux on zSeries (Red Hat 3 & 4, SLES 8 & 9)
- **Apache 2.0.48**
 - AIX 5.2
 - Solaris 10
 - Linux on zSeries (Red Hat 3 & 4, SLES 9)
- **IBM HTTP Server 1.3.26**
 - AIX 5.1, 5.2
 - Solaris 8 & 9
 - Linux Intel (Red Hat 3 & 4, SLES 8)
 - Linux on zSeries (Red Hat 3 & 4, SLES 8)
- **IBM HTTP Server 2.0.47 and 6.0**
 - AIX 5.1, 5.2
 - Solaris 10
 - Linux Intel (Red Hat 3 & 4, SLES 9)
 - Linux on zSeries (Red Hat 3 & 4, SLES 9)

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Web Server Support: Plug-In for Web Servers—continued

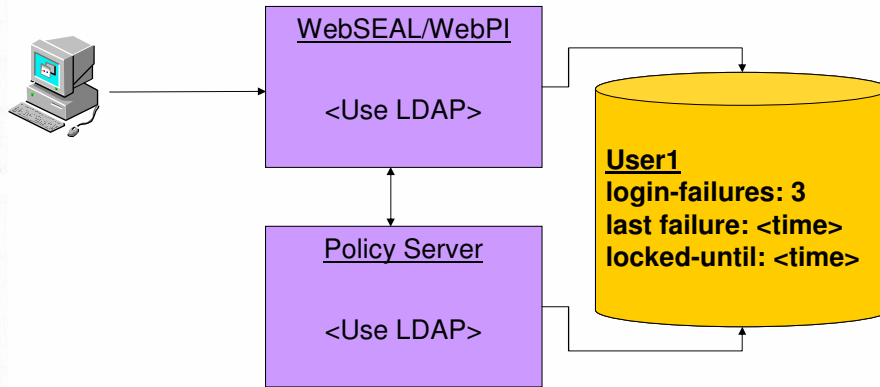
- **Sun ONE 6.0**
 - AIX 5.1, 5.2
 - Solaris 8 and 9
- **Sun Java System Web Server 6.1**
 - AIX 5.1, 5.2
 - Solaris 8 and 9
- **IIS 5.0**
 - Windows 2000 Server
- **IIS 6.0**
 - Windows 2003 Server
- **WebSphere Edge Server**
 - Windows 2003 (Windows only if Active Directory registry)
 - AIX 5.1, 5.2, 5.3
 - Solaris 8 and 9
 - Linux Intel (Red Hat 3.0 and SuSE)

Session Management Server

- Acts as a distributed session cache
- Takes advantage of WebSphere Application Server
- Manages user sessions across clusters of Tivoli Access Manager servers
- Ensures that session state remains consistent across the participating servers
- Allows for the implementation of cluster-wide session policy

Lockout After Failed Login Attempts

- More consistent policy and user experience
 - Store login failures and lockout status in directory



Virtual Hosting

- **Virtual hosting**

- Means having more than one server on one machine
- Differentiated by their host names
- Allows you to run multiple Web services, with different host names, on the same machine

- **Example**

- The following two virtual hosts can reside on the same machine
 - www.exampleA.com
 - www.exampleB.com

- **Virtual hosts use unique sections of the host server's document space**

- **HTTP version 1.1. specification requires client browsers to include the HTTP Host header**

- HTTP Host header contains the host name of the server where the requested resource is located

Virtual Host Junctions

- WebSEAL supports virtual hosting and virtual host junctions
- WebSEAL can communicate with local or remote virtual hosts
- WebSEAL uses HTTP Host header to direct requests to the appropriate virtual hosts
- Virtual host junctions eliminates the limitation of URL filtering
- Configuration of virtual host junctions requires that the external DNS maps all virtual host names to the IP address of the WebSEAL server

Transparent Path Junctions

- A variation of the standard junctions
- Eliminates the need to filter the path portion of a URL
- The configured junction name must match the name of a subdirectory under the root of the back-end server document space
- All resources accessed through this junction must be located under this subdirectory
- The transparent path junction name represents the name of the actual subdirectory on the back-end server

Junction Throttling

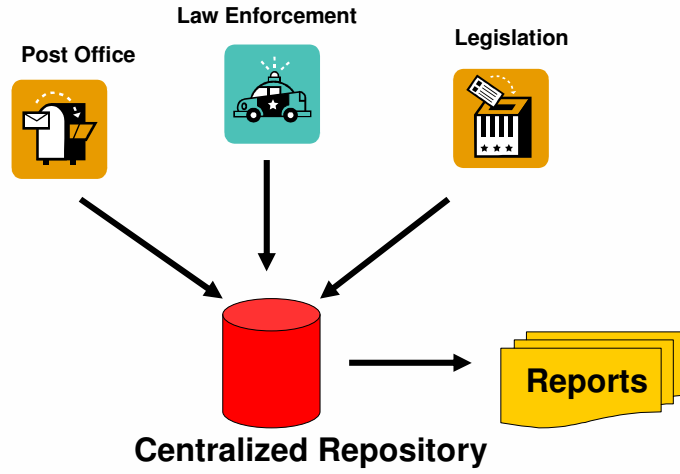
- **Junction throttling is useful when back-end Web servers require servicing.**
- **Junction throttling allows you to gradually take a junctioned back-end Web server offline without interrupting the transactions of users with existing sessions.**
- **Throttled server blocks all requests from unauthenticated users and new authenticated users. Directs these requests to other available replica servers on the same junction.**
- **Throttled server eventually becomes idle and can be taken offline.**
- **Junction throttling is supported on standard WebSEAL junctions and virtual host junctions.**

External Authentication Interface (EAI)

- External authentication interface extends the functionality of WebSEAL authentication process
- Allows third-party systems to supply an authenticated identity to WebSEAL
- Identity is returned in HTTP response header
- WebSEAL uses this identity to generate credentials
- External authentication interface can be used with applications written in any language including Java

Common Audit and Reporting Services (CARS)

- Provides enterprise auditing and reporting functionality



Summary

You should now be able to:

- Explain the enhancement themes for IBM Tivoli Access Manager for e-business version 6.0.
- List the key enhancements in IBM Tivoli Access Manager for e-business version 6.0.

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