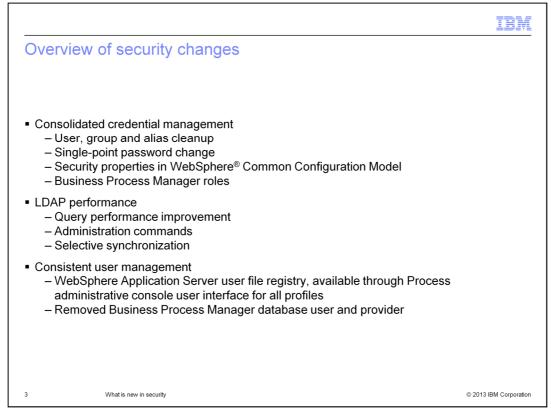


This presentation introduces the new and enhanced security features in IBM Business Process Manager V8.5.

		IBM
Goals and agenda		
Security updates	<ul> <li>Consolidated credential management</li> </ul>	
	<ul> <li>LDAP performance</li> </ul>	
	<ul> <li>Consistent user management</li> </ul>	

This presentation is the second part of the presentation series on what is new in installation, configuration, and migration in IBM Business Process Manager V8.5. It covers the new and enhanced security capabilities in V8.5. These new enhancements allow you to set up and manage more secure user access to applications.

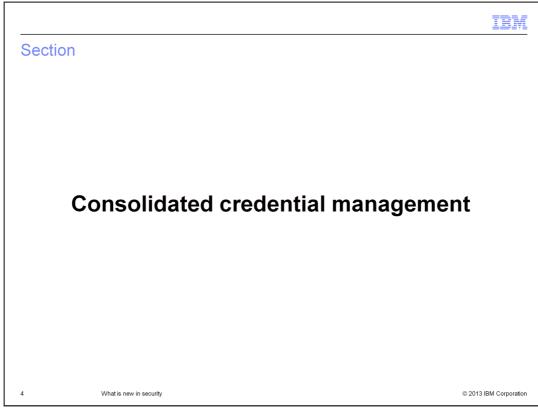


The security changes in IBM Business Process Manager V8.5 are focused on simplification of security configuration and improving performance and user-response for customers who use large user repositories, such as LDAP. The improvements are provided by new features in these three areas.

The first improvement is the consolidated credential management. The number of default users has been simplified and reduced, you are now allowed to rename the built-in groups, and the number of aliases has been reduced. There is a new command that enables you to change all user passwords from one place, instead of having to use multiple user interfaces for alias and runAs roles. Security properties have been moved from XML configuration files to WebSphere Common Configuration Model of WebSphere Application Server. And a set of Business Process Manager roles has been introduced to define various capabilities for Business Process Manager users.

As for LDAP performance, the response time for searches in the LDAP directory has been improved by changes in the way that wildcards are used. Administrative commands have been introduced to synchronize users and groups with LDAP. And there is now a way to synchronize only known users, in addition to a synchronizing a specific list or all users.

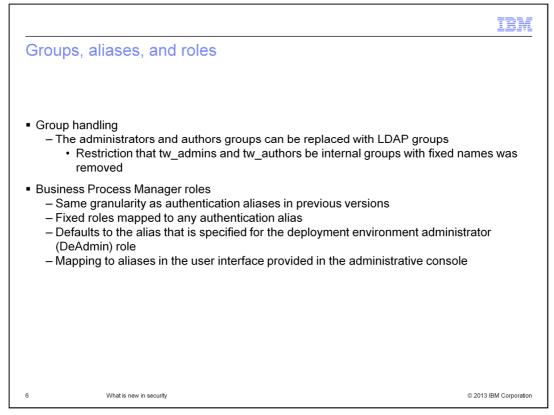
The last improvement area is consistent user management. The internal database-based user registry has been replaced with the built-in WebSphere Application Server file registry. The same user interface is used to manage users in that registry.



This section describes in more detail consolidated credential management.

	IBM
Reduction in users and aliases	
<ul> <li>Removal of hidden and default users         <ul> <li>When the system is installed and configured, the only users are ones defined dur installation</li> <li>Reduced number of users from eight to two; the tw_* users were replaced by two in two roles;</li> </ul> </li> </ul>	-
Cell administrator     Deployment environment administrator	
<ul> <li>Authentication aliases cleanup         <ul> <li>Reduced number of aliases from 33 to 3</li> <li>No aliases with the same user ID</li> <li>No hardcoded references to aliases – any alias can have any name you choose</li> </ul> </li> </ul>	
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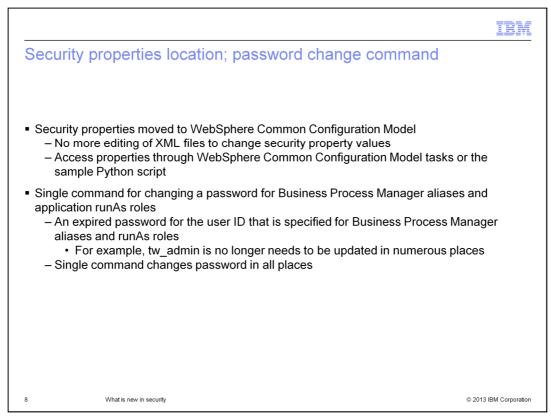
In IBM Business Process Manager V8.5, a reduction in the number of users and aliases and the removal of all default users improves the security of the product.



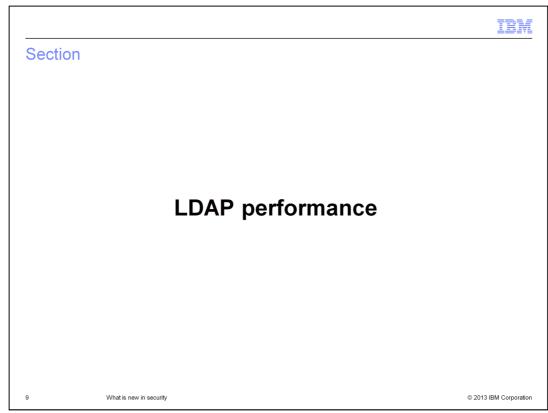
The groups in IBM Business Process Manager V8.5 remain the same as in V8.0.1. However, in V8.5, they can be changed to either be different internal groups or groups defined in an external security provider, such as a federated LDAP. The fixed aliases that are used in V8.0.1 have been replaced by Business Process Manager roles, allowing you to modify the alias names to meet your standards. Since there are only three aliases defined initially, all the other roles default to the alias that are specified for the deployment environment administrator role.

			IBN
Role-to-a	alias mapping		
	Deployment Environments	-	
	Deployment Environments > De1 > Business Integrat		
	credentials that you need to set to secure your busines	ur business integration applications. The table below lists the authentication ss integration applications.	
	Authentication Alias		
	***		
	Role 🗘	Alias	
	BPCUser	DeAdminAlias 💌	
	BPMAuthor	DeAdminAlias 💌	
	BPMUser	DeAdminAlias 💌	
	BPMWebserviceUser	DeAdminAlias 🗸	
	CEIDbUser	DeAdminAlias 💌	
	CEIUser	DeAdminAlias 💌	
	DeAdmin	DeAdminAlias 💌	
	EmbeddedECMTechnicalUser	DeAdminAlias 💌	
	EventManagerUser	DeAdminAlias 💌	
	PerformanceDWUser	DeAdminAlias 💌	
	ProcessCenterUser	DeAdminAlias 💌	
	ProcessServerUser	DeAdminAlias 💌	
	SCAUser	DeAdminAlias 💌	
	Total 13		
	You can sepecify multiple aliases for role SystemLanet CellAdminAlias BPM_DB_ALIAS Apply OK Reset Cancel	Jser. Hold the CTRL key to select multiple items.	
	What is new in security		© 2013 IBM Corporati

This is a screen capture of the WebSphere Application Server administrative console user interface, where you can change the mapping of a Business Process Manager role to an authentication alias. Note that SystemLaneUser is the only role that can be mapped to multiple aliases.



In V8.5, the security properties are no longer located in XML files; they are in WebSphere Common Configuration Model. They can be modified using either WebSphere Application Server commands and tasks or the provided Python script. There is also a new command to change all of the instances of the password for the specified user ID. With this command, the password change is done once and is applied to all instances of that password in the IBM Business Process Manager system applications and known aliases.



This section describes in detail the changes in LDAP performance.

		IBM
Three LD	AP enhancements	
	nization – all queries from the user interface are bounded and will retu er of entries – user-specified, 100 by default	urn up to a
Users and g	groups are separated in all user interfaces	
results	no searches with double wildcards (for example "*abc*") unless there are performance for some types of LDAP	are no
impiore		
10	What is new in security	© 2013 IBM Corporation

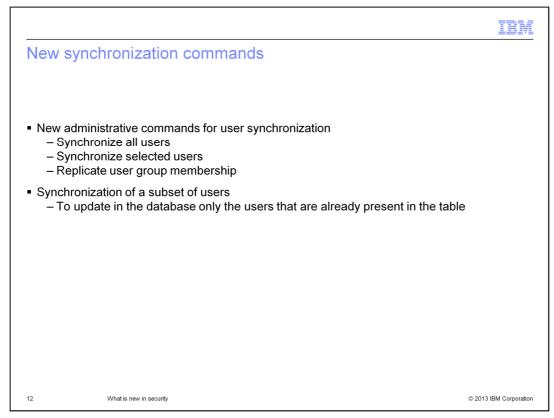
In V8.0.1, LDAP queries can run for a very long time and return thousands of results. But in V8.5, the number of results returned by a query is bounded. The default value is one hundred, but you can configure this. You are notified when the available number of results is larger than the bound value.

The user interface now separates users and groups, which avoids randomness in returned results. In some cases in V8.0.1, 'Add Member' returns a mixture of users and groups, depending on the search string.

Some types of LDAP queries take a very long time for double wildcard searches. To adjust for that, you can now set the property "optimizeWildcardSearch". With this property set, if you type "abc", the string "abc\*" is searched first and, only if that search returns no result, the string "\*abc\*" is searched second.

Users and groups are separ	IBM
IBM SmartCloud Meetings for IBM       IBM Business Process Manager P         Image: The state of the state o	
Add Users Add Users Add Groups Read Mile Admin C C Admin C Admin C Admin C Admin C Admin C Admin C Admin C Admin User (celladmin) User Synchronization Monitoring	vdmin/com.Jombardisoftware.processadmin.ProcessAdmin/ProcessAd ☆ ▼ C N - Google P ↑ ↑ rver Admin Process Inspector Installed Apps Logged in as Adminiatrator   Preferences   Log out User Management > Group Management Select Group to Modity: [tw_admin tw_admins New Group Remove Team Manager Group Mo Team Mo Team Manager Group Mo Team Mo T
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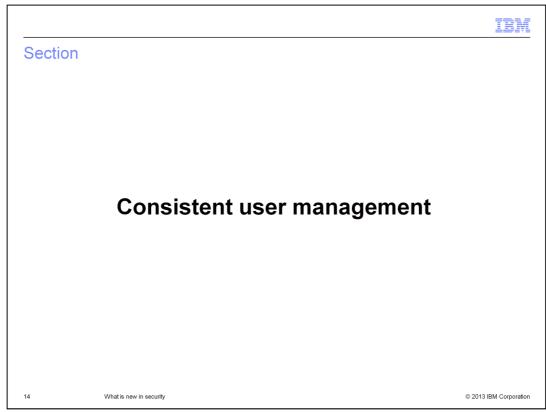
This slide shows the various user interface screens that now separate users and groups.



There are new commands for performing some of the synchronization tasks with LDAP from the command line. These commands allow you to perform out-of-bound synchronization. The LDAP notification is outside of IBM Business Process Manager but the commands can now propagate it into IBM Business Process Manager.

				ĪĒ
ynchronize only the	existing u	sers		
Calhost:9080/ProcessAdmin/I	ProcessAdmin/com.loml	oardisoftware.processadn	nin.ProcessAdmin/ProcessAdmin.jsp	
IBM.   Process Admin Console	Server Admin	Process Inspector	Installed Apps	
8				
▶ IBM BPM Admin		User Managemen	t > Synchronize	
▼ User Management		Synchronize Specific	Users	
User Management		User Name		*
Group Management				
Bulk User Attribute Assignment User Synchronization				
<ul> <li>Monitoring</li> </ul>				
Event Manager				
Admin Tools				
Saved Search Admin				
				-
		*		- F
		Add	Remove Synchronize	
		Full Synchronize	Existing User Synchronize	
				© 2013 IBM Corr

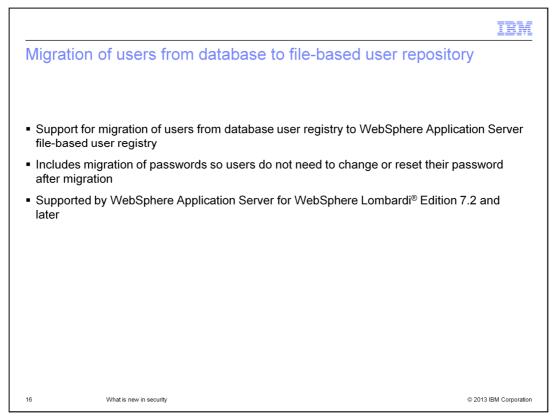
This slide shows the new button for synchronizing only the known users.



This section discusses the improvements related to consistent user management.

Consistent user management	
<ul> <li>One user repository for all profile types – WebSphere Application Server file-based user registry         <ul> <li>In V8.0.1.1, users are created in the database provider for the stand-alone profile and i the WebSphere Application Server file-based user registry provider for Network Deployment</li> </ul> </li> </ul>	n
Creation of users in the file-based user registry from Process administrative console	
Removed the passwords for accessing the database user registry	
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In IBM Business Process Manager V8.5, the database provider has been eliminated. Instead, there is a WebSphere Application Server file-based user registry provider for use in proof-of-concept scenarios. The user interface is the same as in the stand-alone profile of IBM Business Process Manager V8.0.1 and it also works in Network Deployment. Passwords for accessing the database have been removed from IBM Business Process Manager V8.5, which improves security.



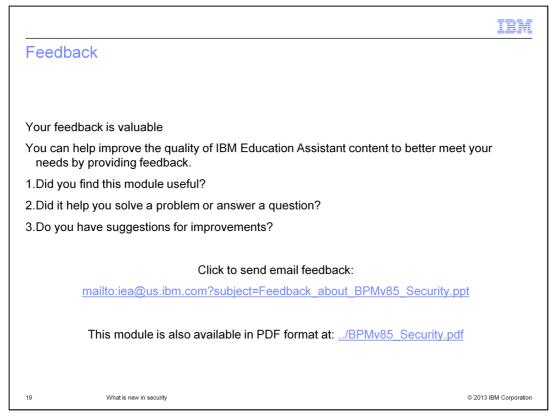
The migration of users and their passwords from the database registry to the file-based user registry is fully supported in IBM Business Process Manager V8.5.

Section			IBM
		Summary	
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The next slide provides summary of the security enhancements in IBM Business Process Manager V8.5.

		IBM
Sumr	mary	
– C – L	ussed enhanced security capabilities Consolidated credential management LDAP performance Consistent user management	
10		
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In summary, this presentation introduced the new and enhanced security capabilities in the IBM Business Process Manager V8.5 release. The three main improvements are: consolidated credential management, LDAP performance, and consistent user management. You learned about these features and how they differ from the previous release.



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