ManageEngine)

Tips for structuring the Active Directory infrastructure

Vivin Sathyan Technical Evangelist



THE REAL PROPERTY AND INCOME.

Agenda

- 4 aspects of Active Directory management
- Options for managing Active Directory
- Limitations of the native tools
- A better alternative
- Question and answers

4 aspects of Active Directory Administration

1. Retrieving information

2. Managing objects

- Manual
- Automation

3.Delegating and auditing actions

4. Active Directory cleanup

Options for managing Active Directory

- Native tools
- Third party tools

Native tools

- PowerShell
- Active Directory users and computers
- Office365 Admin center
- Skype for business
- Exchange management console
- Event viewer

Native tools - Challenges

- Confirmation messages aren't very helpful
- Consolidate information from multiple native tools
- Ability to delegate to non-admin users
 - Learning curve involved
 - Time consuming

A better alternative?

4 aspects of Active Directory Management with ADManager Plus

1. Retrieving information made easy

- How many administrators do you have?
- Find out and manage permissions on confidential folders
- Query important LDAP attributes User information
- Accounts that have never logged on security threat



Modify NTFS Permissions

[Preview]

Select Folders:	Corpdata			[Select]					
	Corpdata (ADSOLUTION	S.DEMO)	ermission] X						
Select Permissions:	Account		Permission		Applies T	0	Туре		Copy from
	Finance managers	[Select]	List folder/ rea	d data, 💌	This fold	ler, sub-▼	Allow v	+	
	 Include inheritable permissions from this object Remove all existing permissions and apply only Replace all existing inheritable permissions on a 		 Read Attrib Read Exter Create file/ 	read data outes oded Attribut	es [Write Extende Delete sub-fo Delete Read Permise Write Permise Take Owners 	ed Attributes Iders and files sions sions	(Basic]	
	Modify Cancel		🗹 Write Attrib	outes				Done	

View Recent T

Users who have never logged on



lastLogon vs. lastLogonTimestamp in Active Directory

3

An employee left the company. I try to find out when his AD account was logged in for the last time - if it was before the dismissal or after.

There are these 2 attributes in user properties window: *lastLogin* and *lastLoginTimestamp*. *lastLogin* date is earlier than the dismissal date, but *lastLoginTimestamp* date is posterior to the dismissal date (so in this case we would have a security problem).

How to know, which one of these attributes shows the actual last AD account login time? What is the difference between them?

	Proper	ties				C	? X	
Published (Certificates	Mer	mber Of	Passwo	rd Replication	Object	Security	
Environme	nt Sessio	ons	Remote	te control Remote Desktop Servi		ces Profile		
General	Address	A	ccount	Profile Telephones (es Org	ganization	
Personal	Virtual Desk	top	COM	1+ UNIX Attributes Attrib		Attribu	oute Editor	
Attributes:								
Attribute			Value				-	
lastLogo	n		2015.07.	13 06:23:	18 FLE Standa	rd Time		
last ono	nTimestamp		2015 09	03 01.11	57 FLE Standa	rd Time		

2. Effectual management of objects

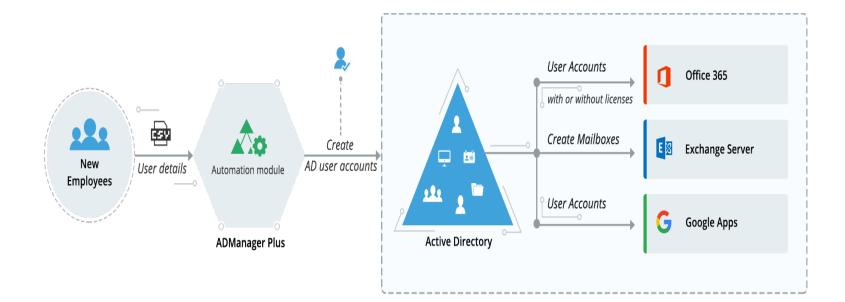
- Manage the entire life cycle of an object
- Two ways
 - Manual •
 - Automation



User creation templates

Layout View							
					🔰 Сору	User Attributes	Enable Drag-n-Dro
tive Directory 🗹 Google Ap General Acco	ops 🗹 Office 365	Exchange	Remote Mailbox	Terminal	OCS/Lync/Skype	Custom Attribute	s 🛛 🔺 🕨 🔮
neral							
First name		8 1					
Initials							
Last name		8 🚺					
⊧Logon Name	FirstName + LastName Create your own naming form	• @ workshop.adma	nagerplus.co eg. JohnSmi	th@workshop.admanag	gerplus.com		
*Logon name(pre-Windows 2000)	Same as logonname	▼_eg. JohnSmith					
*Full name	Same as logonname	▼ eg. JohnSmith					
Display name	Same as logonname	▼ eg. JohnSmith	0				
Employee ID							

User provisioning made effective



Automation: User creation

Create New Automation

* Automation Name : 1	T_user account creation		Description :	Basic IT accounts - Members of I access group	IT-Tech
Automation Category :	User Automation	•	Select Domain :	workshop.admanagerplus.com	n 💌
Tasks to automate					
Specify the task you want to au	utomate.				
	Automation Task/Policy :	Create Users		•	
	Template to be applied:	IT_Accounts		×	
	Location of CSV:	\\server\newly hi		e.g. \\server_name\share	_name\folder
		Select only th	e appended objects fr	om the file.	
					Implement Business Workflow
Execution Time					
Specify the time/interval at whi	ich the task should be run.				
	Run at :	Weekly	▼		
		On: Tuesday	▼ At: 10 ▼	Hrs 40 T Mns	

Save & Run

Cancel

Save

ITSM-IAM Integration & more.

ADManager Plus + ServiceDesk Plus Create | Unlock | Enable | Disable | Delete | Reset passwords

ADManager Plus + ServiceNow

Create | Unlock | Enable | Disable | Delete | Reset passwords & Add or remove from Group

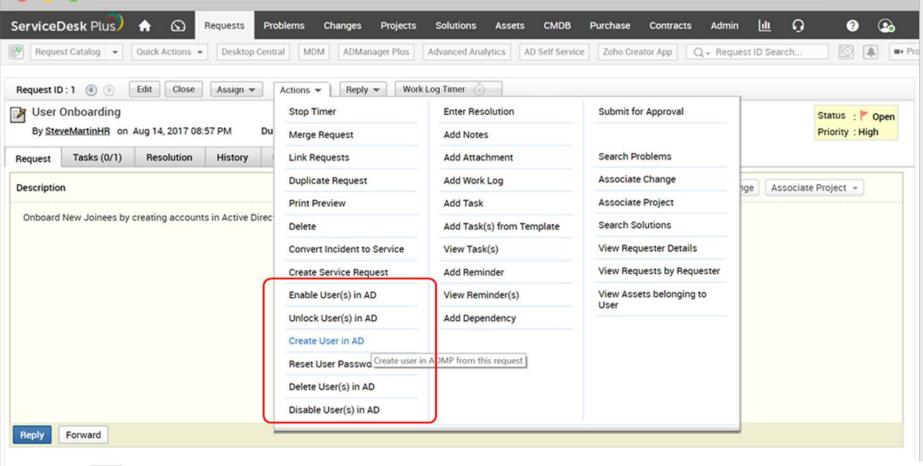
Other integrations MS SQL and Oracle DB - user onboarding



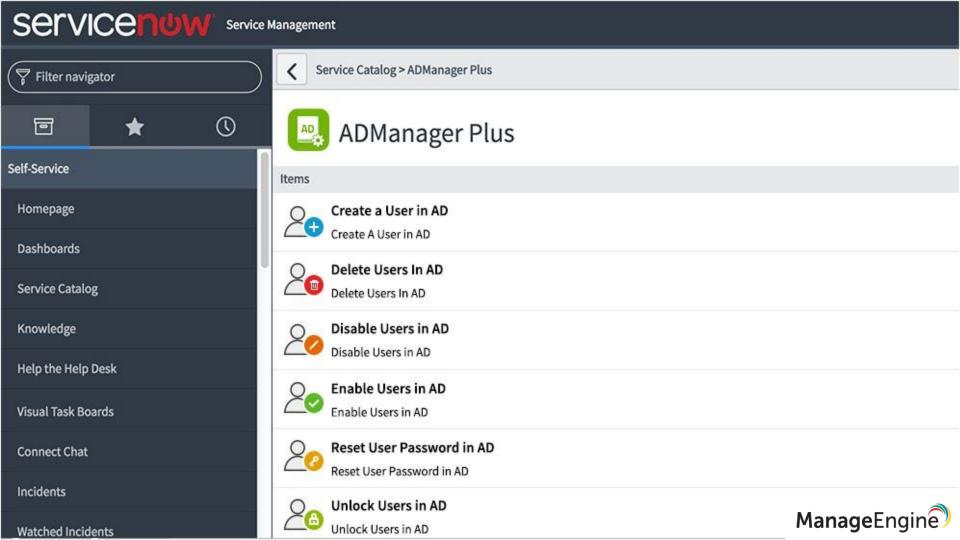
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Request Details

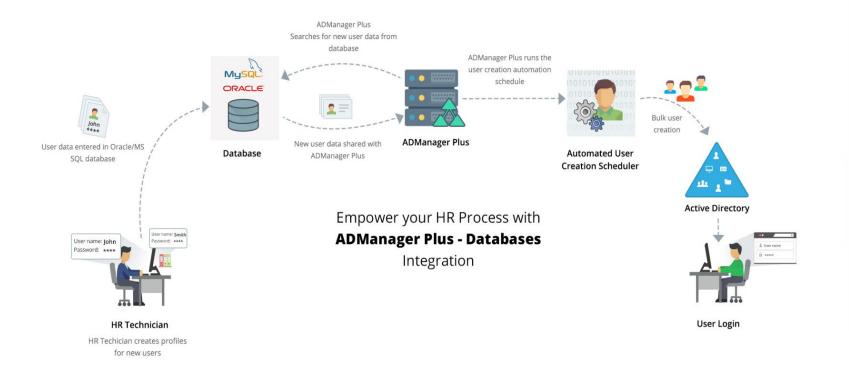
Edit



ManageEngine



ADManager Plus and DB integration



3. Delegating and auditing actions

- Points to be remembered
 - Precise restrictions
 - Use the domain admin account only for actions that require the privilege level of this account.
 - Never use shared accounts
 - Review events and take corrective actions

User permissions are untouched!



Example OU ADMIN : Create & Modify HELP DESK : Reset Password HR. DEPT : Create User

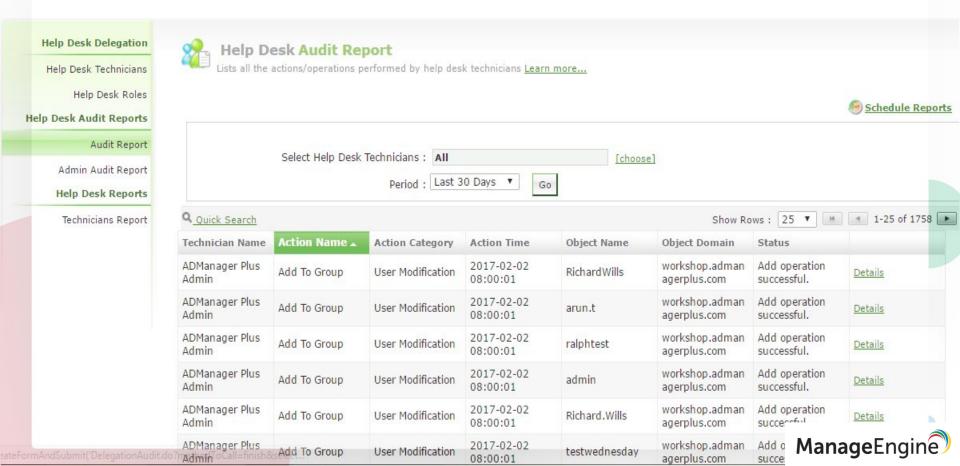


Roles: Task controllers

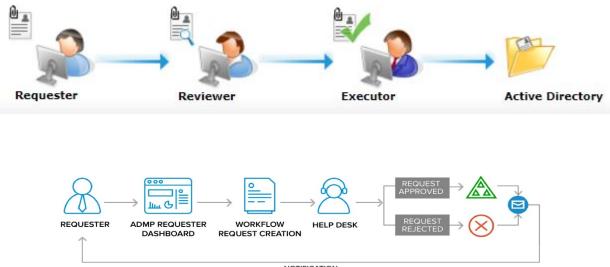
reate			

		Role Name: Description :	IT_Technician * Create users, reset password, and unlock accounts	
Ø	AD Management AD Reports	Administration		
	User Management	Bulk User Management		
	Computer Management	Create Users	er Attribute	✓ User Templates
	Contact Management Group Management	Create Single User	Modify Single UserModify Bulk Users	 User Creation Templates User Modification Templates
	Mailbox Management	Bulk User Modification		Deny Bulk Modification Deny C
	OU Management Security Management	General Attributes	Exchange Attributes	Terminal Services
	Security Management File Server Management Office 365 Management	 Reset Password Group Attributes Unlock Users Move Users Delete Users Account Attributes 	 Create/Archive MailBox Modify SMTP Address Set MailBox Rights Delivery Options Naming Attributes Exchange Features 	 Profile Attributes Remote Control Attributes Session Attributes Environment Attributes Move/Delete TS Home folders Dial-in
		Restore Deleted Users	Auto Benly	

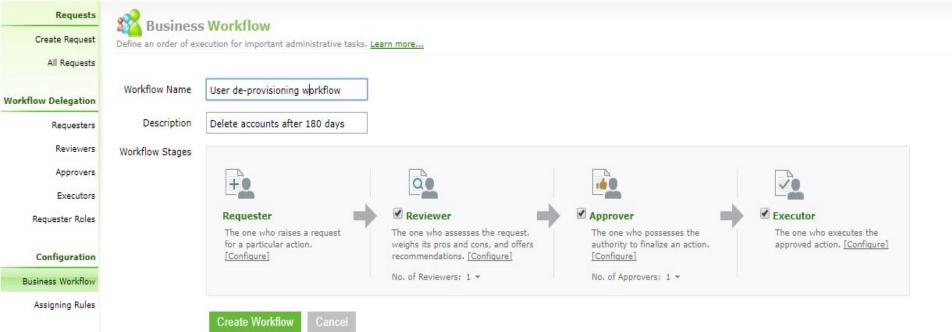
Technician auditing



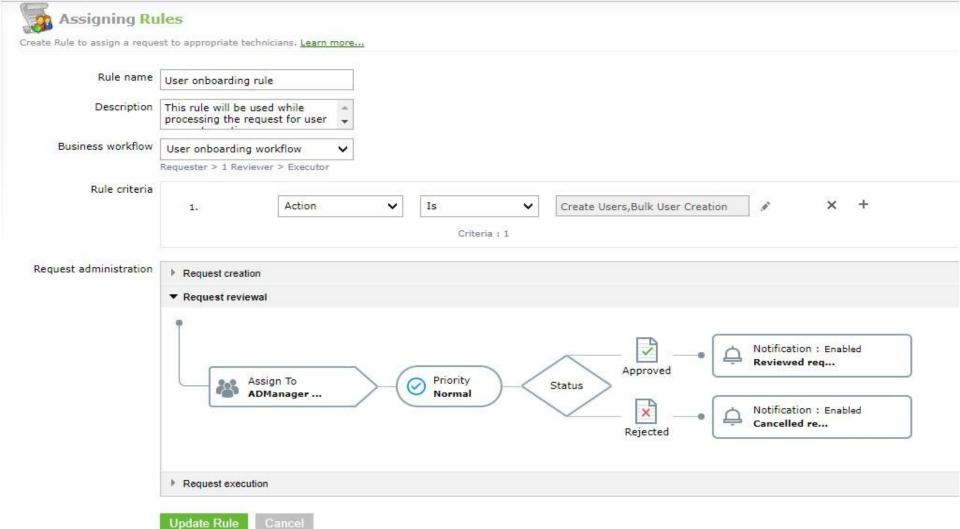
Request and approve methodology



NOTIFICATION



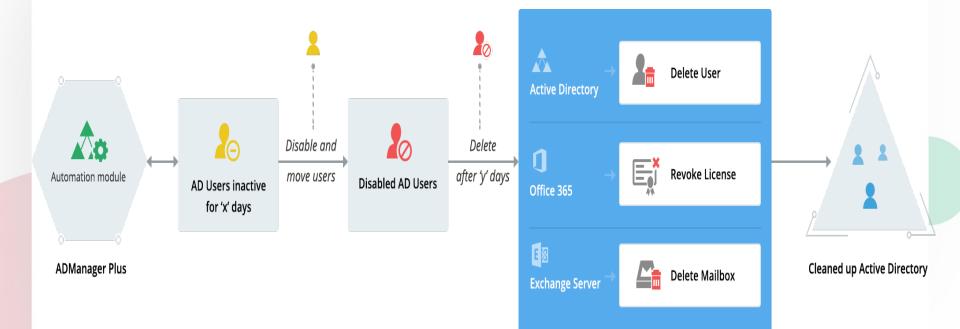
Q.				≪ < 1-4 of 4 > >> 5▼
Actio	on	Workflow Name	Description	Workflow Stages
1	Ô	Default business workflow	This is a predefined workflow present in the product.	Requester 🔶 Executor
	ā	User onboarding workflow	This workflow will be used while processing the request fo r user account creation.	Requester \Rightarrow Reviewers: 1 \Rightarrow Executor
r	Ô	Stale accounts cleanup workflow	This workflow will be used while processing stale accounts cleanup.	Requester + Reviewers: 2 + Executor
	Ō	User password reset workflow	This workflow will be used while processing password rese t requests.	Requester Reviewers: 2 Approver: 2 Executor



4. Active Directory cleanup

- Users who have not logged in for more than 180 days and are still enabled
 - Enhances security
 - Effective utilization of license
- Computers that have not authenticated for more than 6 months
- Groups without any members

Active Directory cleanup / user off boarding



Create your own logic for automation

	* Aut	omation Policy Name :	Policy for removing inac	tive users	Description :	Inactivity period - 180 days	
	4	Automation Category :	User Automation	•	Select Domain:	workshop.admanagerplus.com	•
Inst	ant T	asks					
		Move Users	•	CN=Users,DC=workshop,DC=a	dmar 🧪		
	×	Remove from Group	¥	Clear all existing Group mem Administrators	berships		
¢	×	Disable users	•				
Suc	cessi	ve Task(s)					
~	Task G	roup				More	. Ó
2003	After	60 days, from the time of	of executing the previou	s task			
				Disable user mailbox			
4	× ×	Disable/Delete Ma	ilbox 🔻	Disconnect user mailbox	<		_
				Delete User mailbox			

Supervise and execute automations

	ew			

* Automation Name :	Inactive user objects - 180 days	Description :		
Automation Category :	User Automation	Select Domain :	workshop.admanagerplus.com	T
Tasks to automate				
Specify the task you want to a	automate.			
	Automation Task/Policy :	Policy for removing inact	•	
				Implement <u>Business Workflow</u>
Select objects				
Select the objects on which th	ie task would be performed - from i	report and/or CSV import.		
	From Report:	Inactive Users	Select]	
				Select More
Execution Time				
Specify the time/interval at w	hich the task should be run.			
	Run at :	Monthly		
		On: 10 ▼ At: 17 ▼ Hrs	0 V Mns	



vivin.sathyan@manageengine.com HybridCloud@realdolmen.com

