



Modernize your Active Directory

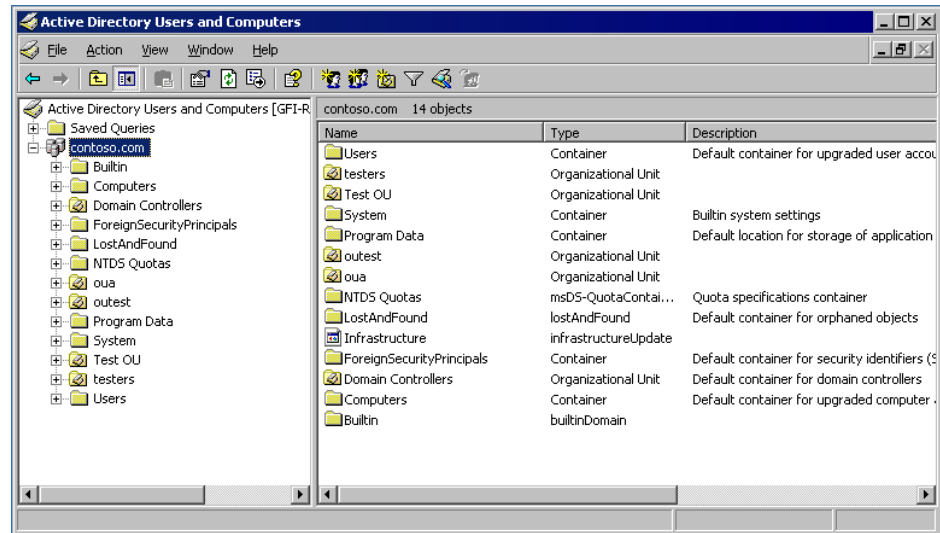
Peter Walsten, Dell Software



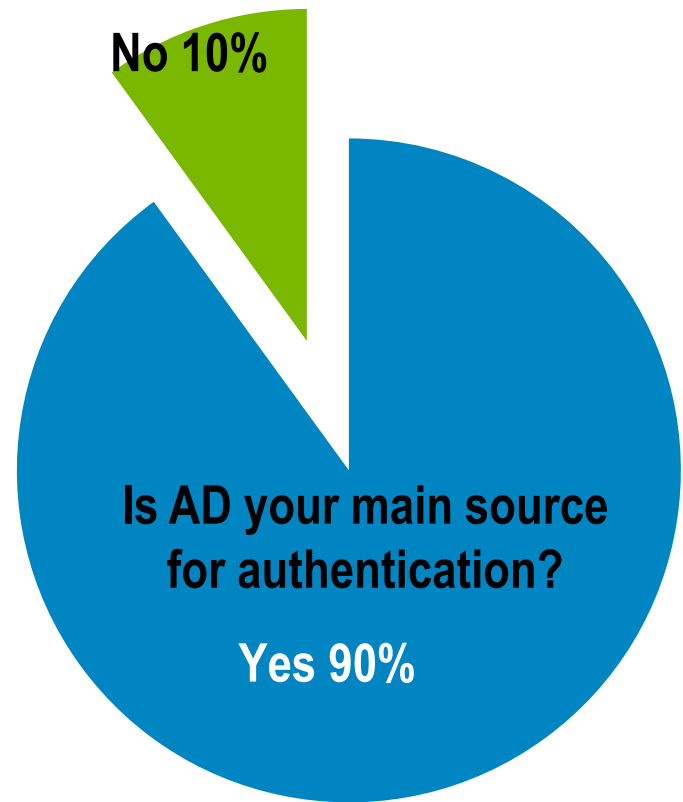
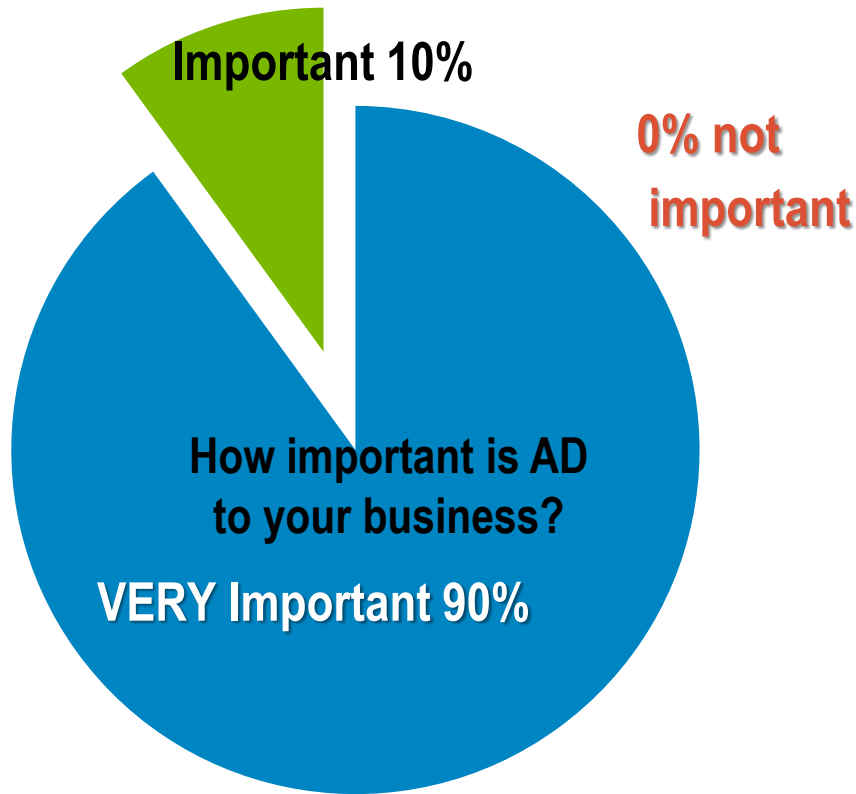


Active Directory

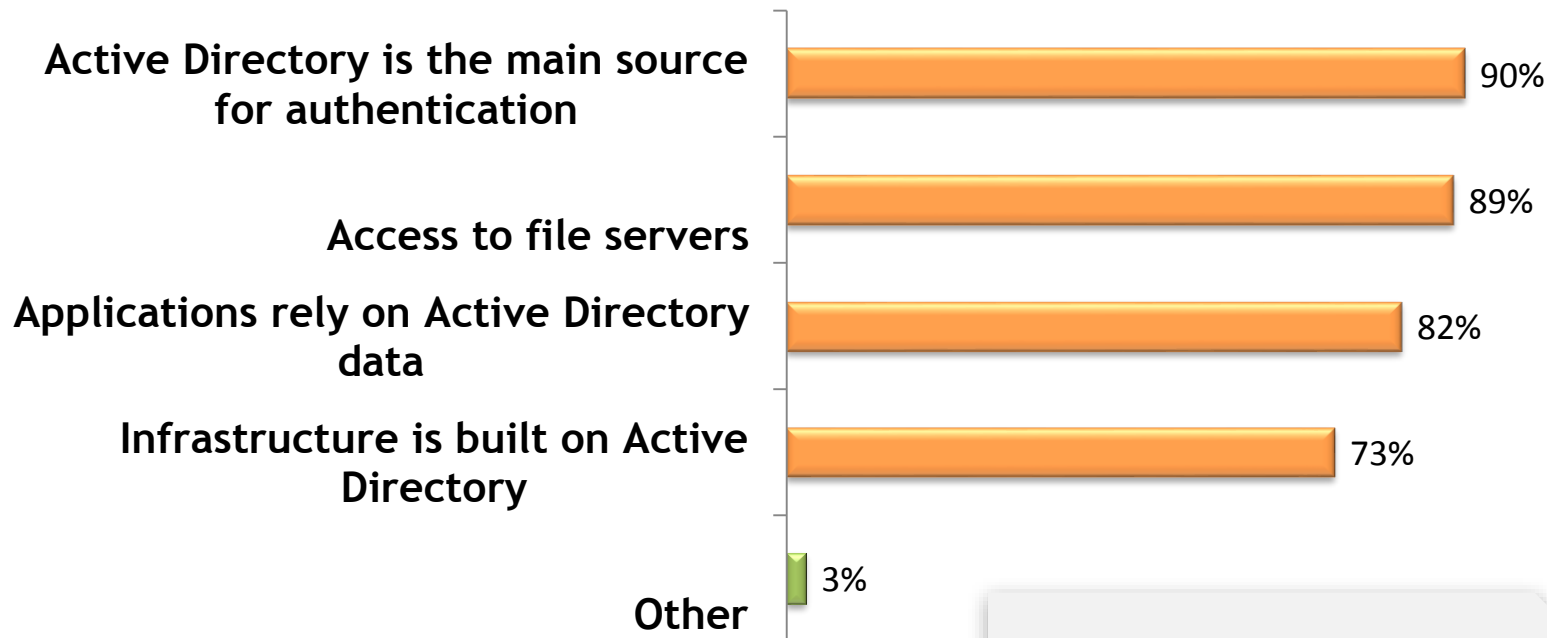
- Release: 2000
- Versioner:
 - 2000
 - 2003
 - 2003 R2
 - 2008
 - 2008 R2
 - 2012
 - 2012 R2
 - (2016)



So, how important IS Active Directory?



How is Active Directory used by IT systems?



“Other” answers included SSO, IDM, and SP Authentication

What are your top concerns about Active Directory ?



Why modernize ?

Active Directory is the backbone of Windows Enterprise

**Leaner
architecture**

**Evolving
tech trends**

**Mergers &
Acquisitions**

**Disaster
recovery
planning**

**Dynamic
compliance
requirements**

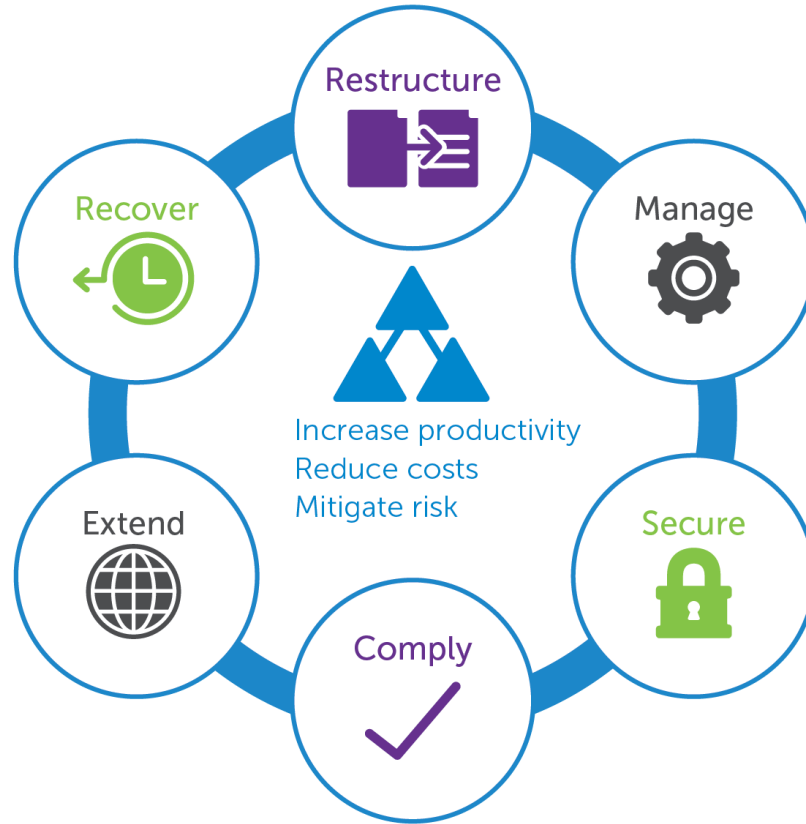
**Increased
Security needs**

**Safely extend
network beyond
Win**

**Keep your “roof
from caving in”**



Modernize your Active Directory with Dell

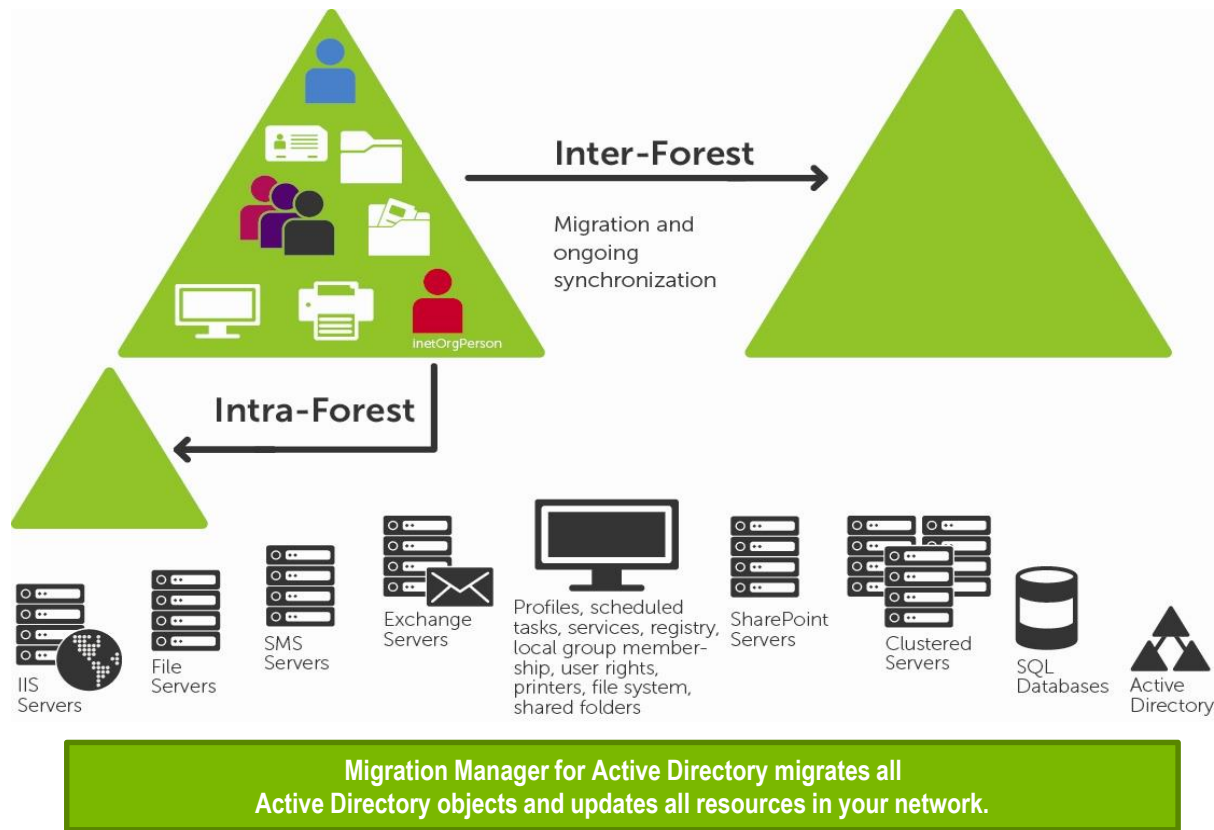




Redesign Active Directory

- **Prepare** – so your move is well planned and without incident
 - Understand what's in the environment
 - Inventory rights and trusts
 - Know what's talking to AD
 - Assess server side application compatibility
- **Restructure/Consolidate** – **get there with ZeroIMPACT** on end users and productivity

Migration Manager for Active Directory





Be ready

- **Avoid data loss** and maintain business continuity with recovery solutions for Active Directory including full forest backups for disaster recovery.
- Facilitate efficient searches and **fast recovery** of lost data, from a single object to an entire forest,
- **Keep down time to a minimum** and productivity maximized even in a disaster

Active Directory glitch caused IT outage, says NHS Greater Glasgow and Clyde



c:a 700 besök fick senareläggas.

- 15 planerade operationer
- 50 cellgiftsbehandlingar
- 45 inläggningar

Planning for Active Directory Forest Recovery

Microsoft Corporation

First published: October 2006

Updated and republished: May 2009, March 2010, Feb 2011, May 2011, Sept 2011, April 2013

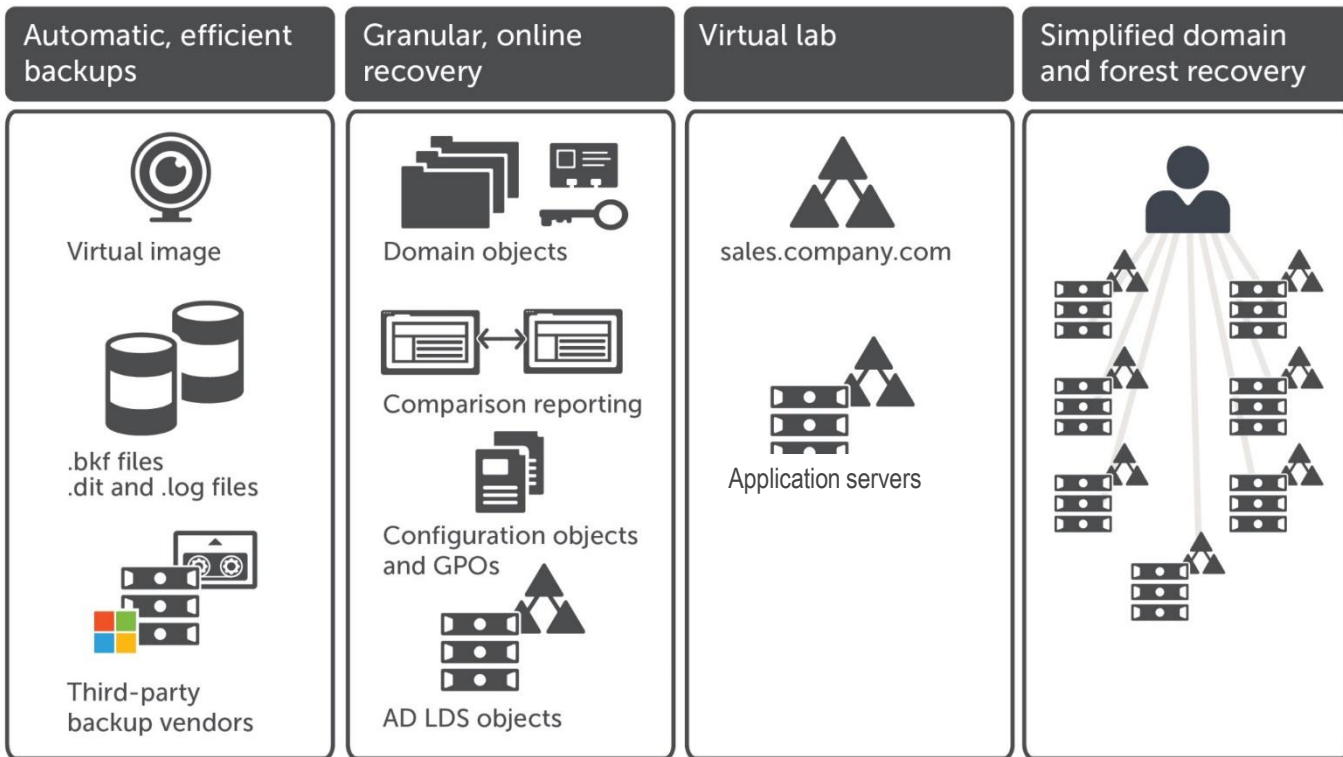
Abstract

This guide contains best-practice recommendations for recovering an Active Directory® forest if forest-wide failure renders all domain controllers in the forest incapable of functioning normally. The steps, which you must customize for your particular environment, describe how to recover the entire Active Directory forest to a point in time before the critical malfunction. They also ensure that none of the restored domain controllers replicate from a domain controller with potentially dangerous data.

The steps in this guide apply to Active Directory forests where the domain controllers run Microsoft® Windows Server 2012, Windows Server 2008 R2, Windows Server 2008, and Windows Server 2003 operating systems.

Microsoft

Recovery Manager for Active Directory



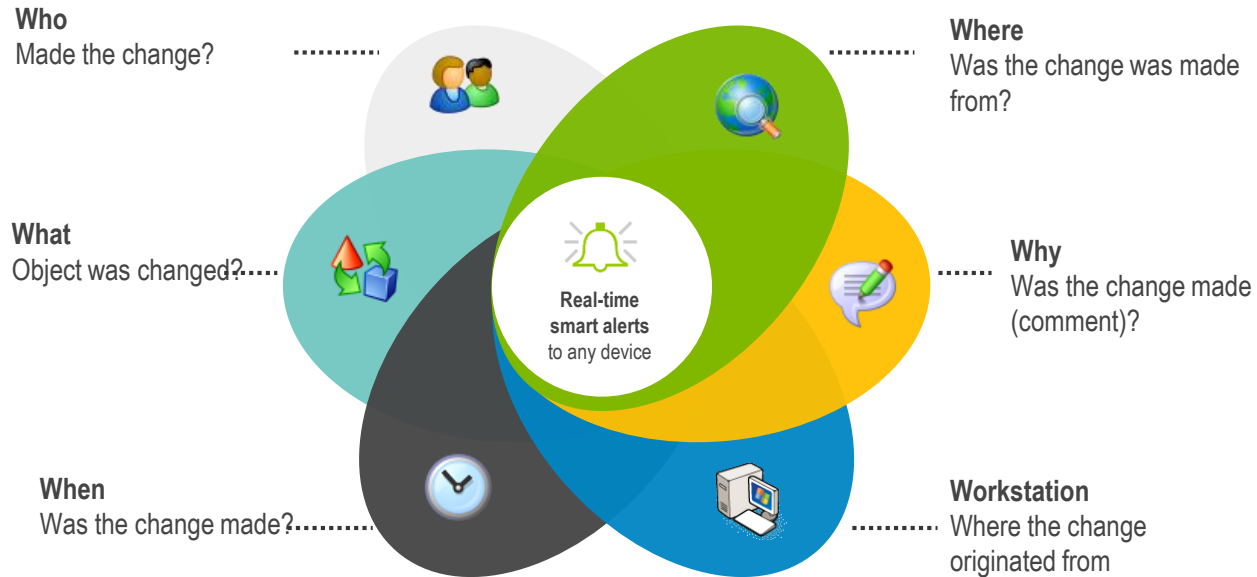


Prove it!

- **Reduce the risk** of security breaches by automating the tracking, alerting and reporting on the who-what-where of changes across the network
- **Easily meet compliance and governance standards** by tracking all changes in real time and leveraging prebuilt reporting to demonstrate compliance
- **Keep your auditors happy** with detailed user and administrator activity reports

Change Auditor

- Complete, real-time change auditing, in-depth forensics and comprehensive reporting on all key configuration, user and administrator changes.



ChangeAuditor Modules

- Active Directory
- AD Queries
- Exchange
- Office 365
- SharePoint
- Windows File Servers
- NetApp
- EMC
- SQL Server
- LYNC
- SonicWall
- User Session
- Cloud Storage
- VMware vCenter



http://skyca/ChangeAuditor/Searches/Results/OverviewDrilldown?drilldownID=1033139813 Change Auditor

Change Auditor Administrator

Topology: SKYDEMO

Timeline Columns Close Run Time: 00:00:07 Records: 24632

Drag a column header and drop it here to group by that column

Severity	Time Detected	Subsystem	User	Event	Server	Action	Domain	Result
Medium	2/11/2015 10:06 AM	Group Policy	SKYDEMO\Administrator	Maximum Application Log Size policy changed	SKYDC01	Modify Attribute	SKYDEMO	Success
Medium	2/11/2015 10:06 AM	Active Directory	SKYDEMO\Administrator	Linked Group Policy on OU changed	SKYDC01	Modify Attribute	SKYDEMO	Success
Medium	2/11/2015 10:06 AM	Active Directory	SKYDEMO\Administrator	Linked Group Policy on OU changed	SKYDC01	Modify Attribute	SKYDEMO	Success
Medium	2/11/2015 10:04 AM	Logon	SKYDEMO\administrator	A user session was started	SKYMISC01	Other	SKYDEMO	Success
Medium	2/11/2015 10:04 AM	Logon	SKYDEMO\administrator	User logged on interactively from a remote c...	SKYMISC01	Other	SKYDEMO	Success
Medium	2/11/2015 10:04 AM	Logon	Window Manager\DWI-2	User logged on interactively	SKYMISC01	Other	SKYDEMO	Success
Medium	2/11/2015 10:04 AM	Logon	Window Manager\DWI-2	User logged on interactively	SKYMISC01	Other	SKYDEMO	Success
Low	2/11/2015 9:47 AM	AD Query	SKYDEMO\Administrator	AD Query Performed	SKYDC01	Other	SKYDEMO	Success
Medium	2/11/2015 9:43 AM	Logon	SKYDEMO\administrator	A user session was started by user making a t...	SKYARS	Other	SKYDEMO	Success
Medium	2/11/2015 9:43 AM	Logon	SKYDEMO\administrator	User logged on interactively from a remote c...	SKYARS	Other	SKYDEMO	Success
Medium	2/11/2015 9:43 AM	Logon	Window Manager\DWI-3	User logged on interactively	SKYARS	Other	SKYDEMO	Success
Medium	2/11/2015 9:43 AM	Logon	Window Manager\DWI-3	User logged on interactively	SKYARS	Other	SKYDEMO	Success

Event Details

Email... Knowledge Base... Comments... Timeline Disable Related Search

Severity: Medium

Who: SKYDEMO\Administrator (Administrator)

Where: SKYDC01

What: Maximum Application Log Size policy changed on SKYDEMO\SKYDC01 Demo-GPO.

Subsystem: Group Policy

Policy: Demo-GPO

From: 16384

To: 8192

When: 2015-02-11 10:06:54

Source: Change Auditor

Origin: skymisc01.skydemo.net (192.168.69.156)

Result: Success

Action: Modify Attribute

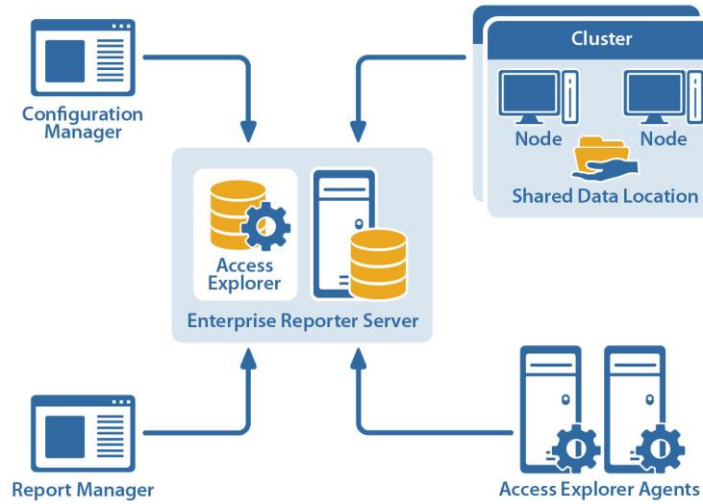
Facility: Group Policy Item

Section: Application Log

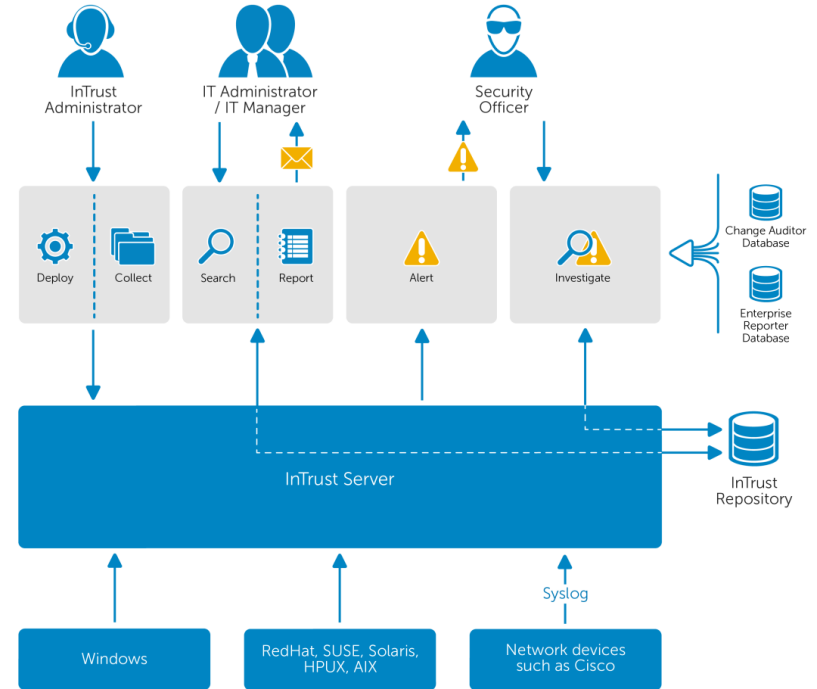
Item: MaximumLogSize

http://software.dell.com/

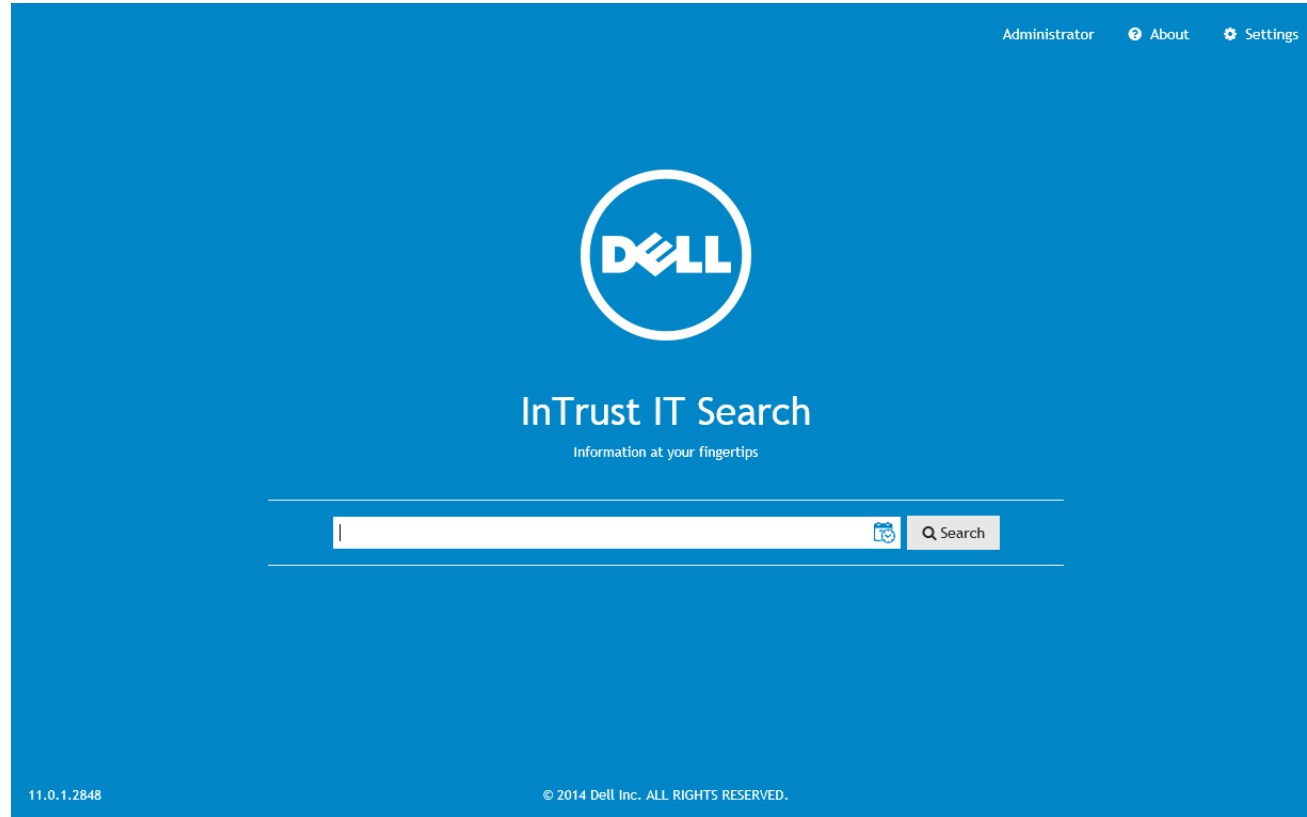
Enterprise Reporter



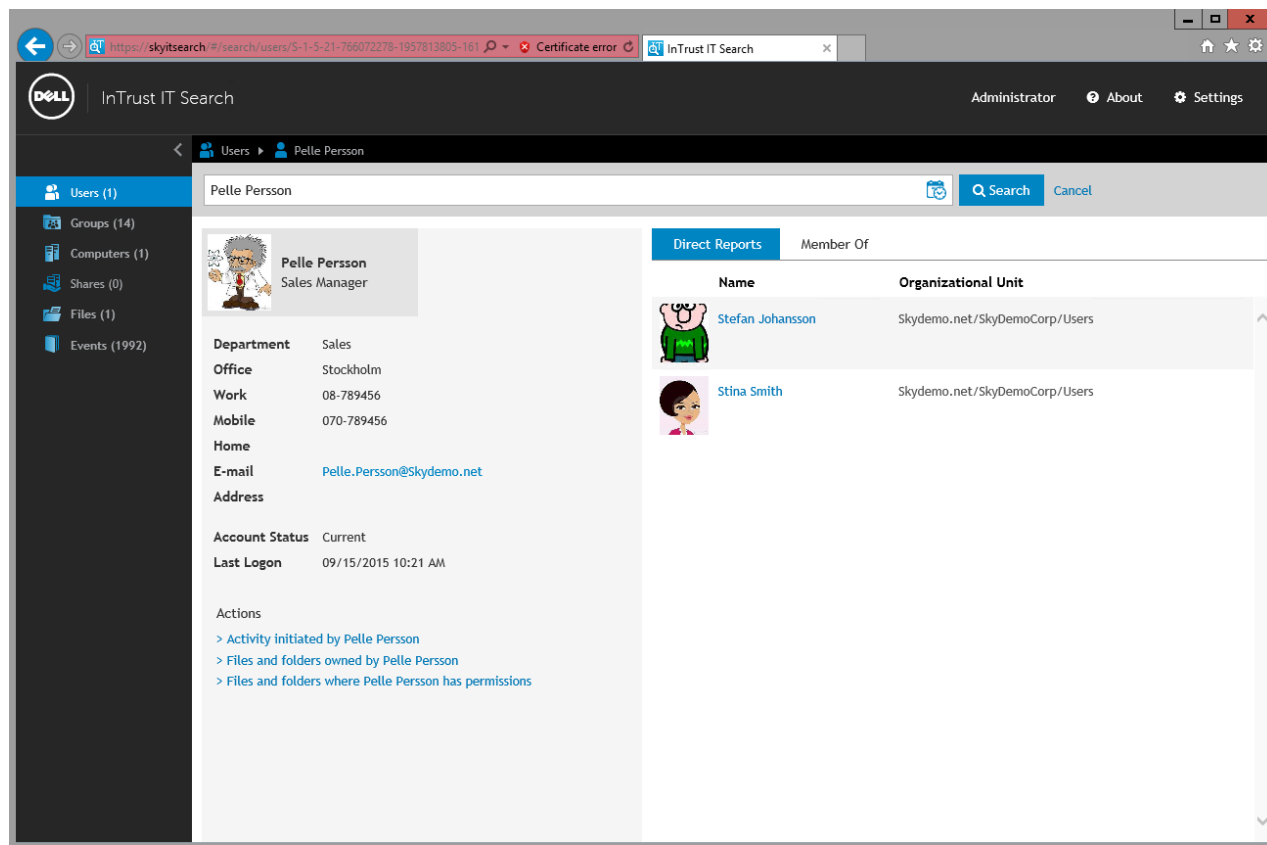
InTrust



Make sense of your IT data with IT Search



Exploit relationships between events and state based data



The screenshot shows the Dell InTrust IT Search web application. The browser address bar displays a URL with a certificate error. The application interface includes a sidebar with navigation options: Users (1), Groups (14), Computers (1), Shares (0), Files (1), and Events (1992). The main content area displays the profile of Pelle Persson, a Sales Manager. The profile includes contact information, account status, and a list of actions. A 'Direct Reports' section is also visible, listing two users: Stefan Johansson and Stina Smith, both associated with the Skydemo.net/SkyDemoCorp/Users organizational unit.

Users (1)

Pelle Persson
Sales Manager



Department Sales
Office Stockholm
Work 08-789456
Mobile 070-789456
Home
E-mail Pelle.Persson@Skydemo.net
Address

Account Status Current
Last Logon 09/15/2015 10:21 AM

Actions

- > Activity initiated by Pelle Persson
- > Files and folders owned by Pelle Persson
- > Files and folders where Pelle Persson has permissions

Direct Reports

Name	Organizational Unit
 Stefan Johansson	Skydemo.net/SkyDemoCorp/Users
 Stina Smith	Skydemo.net/SkyDemoCorp/Users

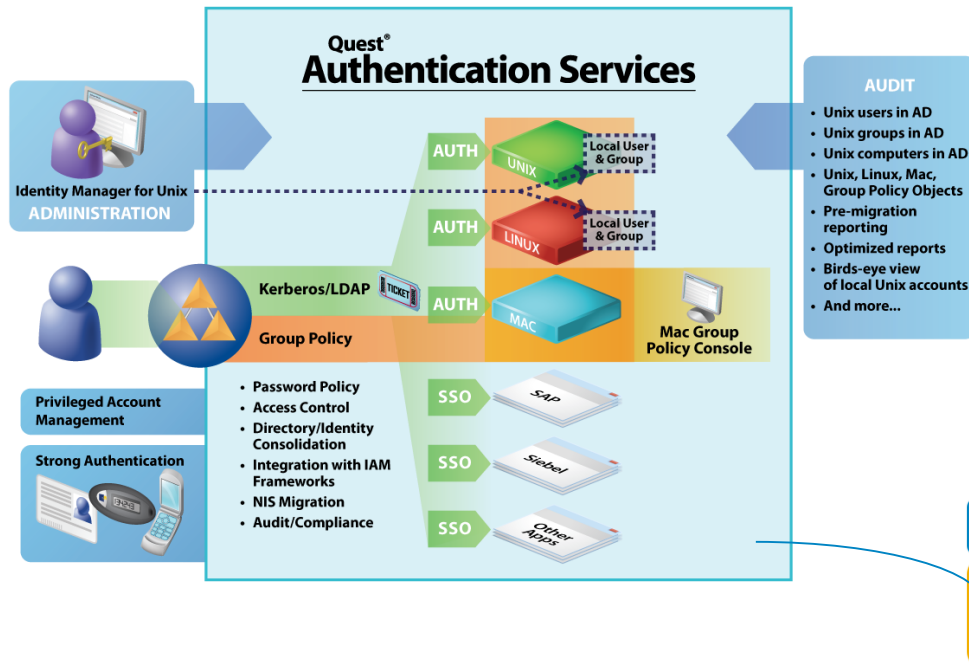


Bring in other platforms

- **Extend** the unified authentication and authorization of Microsoft Active Directory to Unix, Linux and Mac systems
- **Remove** the stand-alone authentication and authorization requirement of native Unix in favor of the single identity, one account, single point of management



Privileged Access Suite for Unix



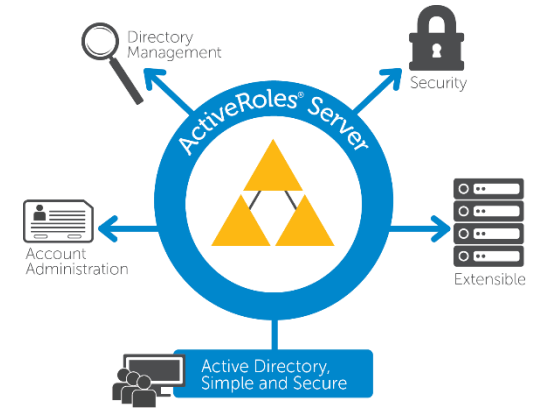
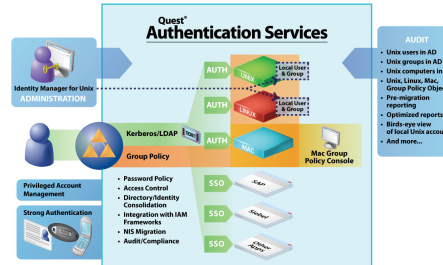
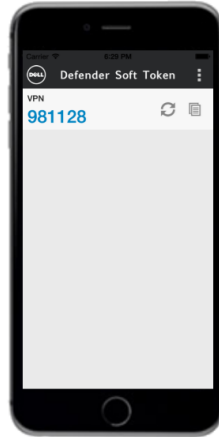
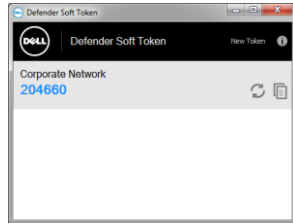


Lock it down

- **Protect** critical data, applications, configurations and your environment by strictly enforcing policies and eliminating unregulated access to resources.
- **Ensure** your apps and data are secure with AD-based multi-factor authentication to keep air-tight control over user and group access.

Change Auditor

- Complete, real-time change auditing, in-depth forensics and comprehensive reporting on all key configuration, user and administrator changes.



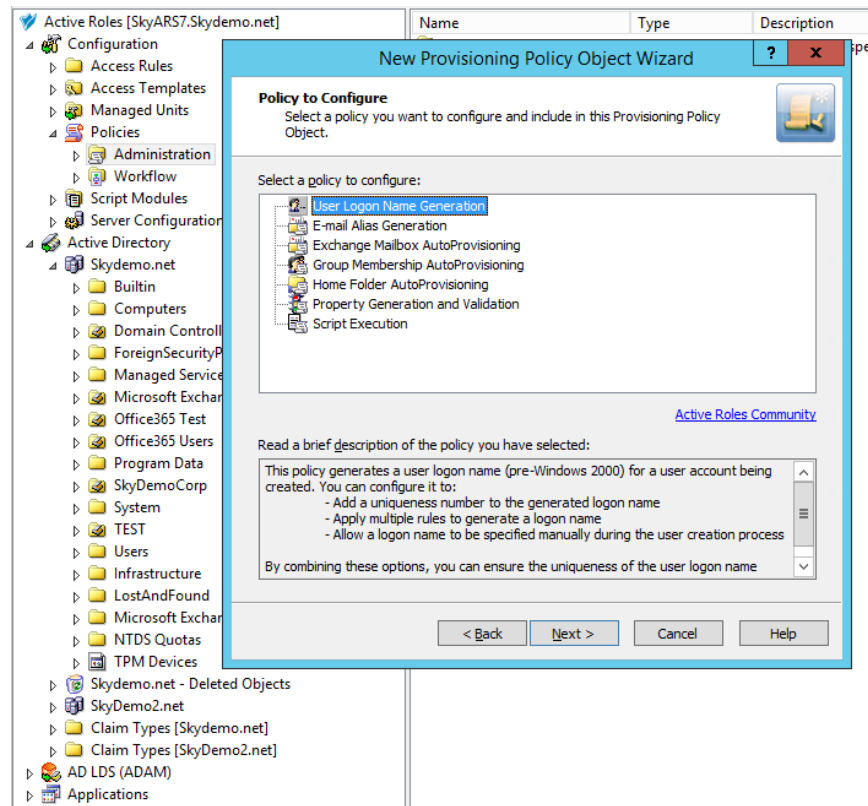
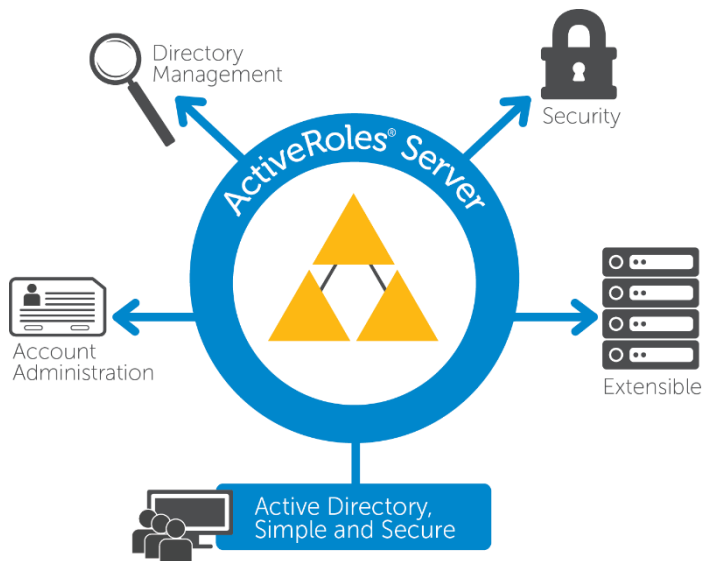
Manage



Take Control

- **Reduce the daily burden** of AD management through automation
 - Provisioning and deprovisioning of users
 - User and group account management
 - Problem detection and reporting
- **Avoid downtime** by rapidly detecting, diagnosing and resolving system issues before they become critical
- Reduce the resources needed for day to day management of Active Directory while still **meeting the demands of your business** and your users





http://skyers7/Admin/List.aspx?TaskId=Content&TargetClass=organizationa... Users - View Contents - Act...

Active Roles

Administrator

General Properties

Anders Svensson

Active Directory / Skydemo.net / SkyDemoCorp / Users

☒ Customize

- General
- Address
- Account
- Telephones
- Organization
- Profile
- Managed by
- Picture
- Published Certificates
- Admin Roles

First name: Anders

Last name: Svensson

Initials:

Display name: Anders Svensson

Description:

Office:

Telephone number:

E-Mail: Anders.Svensson@Skydemo.net

Web page:

Save Close

Users

Search under this container

- New User
- New Group
- New Query-based Distribution Group
- New Computer
- New Organizational Unit
- New Shared Folder
- New Contact
- New Printer
- New Room Mailbox
- New Equipment Mailbox
- New Linked Mailbox
- New Shared Mailbox
- New Group Managed Service Account
- Delete
- Move
- Rename
- Change History
- Properties
- View Contents
- New or Restore Deleted Objects

Users

Sixten Svensson	User
Sixten Svensson	User
Stefan Johansson	User
Stig Strand	User

Windows Server Management

Migrations, Consolidations and Restructuring

- ZeroImpact Migrations
- Pre migration analysis
- Platform migration
- Cross-Platform
- Coexistence



Compliance, Audits and Security

- Inventory
- Auditing
- LOG-Management
- Prevent changes



- Automated Management
- Provisioning
- Delegated administration
- Workflows



Automation and Administration

WINDOWS MANAGEMENT PLATFORMS



- Backup and recovery
- Disaster Recovery
- Detect, diagnose and resolve AD problems

Recovery and Availability



Thank you.

