

**Identity and Access Management (IAM) Project:  
Active Directory (On-Premises) Deployment for  
DamaniTech Solutions.**

Implementation of On-Premises Active Directory for  
Centralized Identity and Access Management

Organisation: **Damanitech**

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# 1. Scope of Work

This project encompasses deploying an **on premise Active Directory Domain Controller** (AD DS) to provide centralized **Identity and Access Management (IAM)** for DamaniTech Solutions. The implementation includes domain setup, client integration, creation of Organizational Units (OUs) aligned to regional offices, security group design, user provisioning, and enforcement of access control policies using Group Policy Objects (GPOs).

# 2. Organisation IT Structure

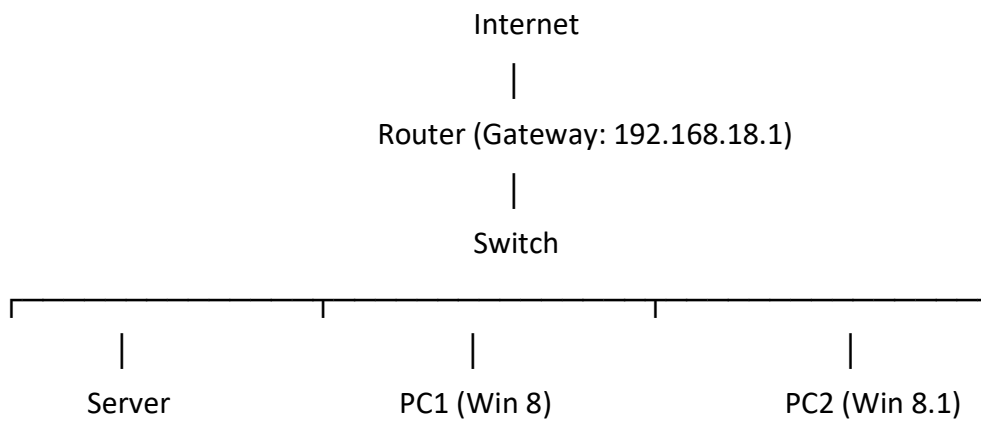
The simulated environment reflected a small IT services firm with distributed offices:

- **1 x Windows Server** – Domain Controller (AD DS + DNS)
- **2 x Client PCs** – Windows 8
- **Two OUs** – HR and IT Departments
- **Departmental Groups** – Created within each OU to represent business functions.

# 3. Project Objectives

- Deploy **Active Directory Domain Services (AD DS)** for centralized IAM.
- Configure regional **Organizational Units (OUs)** to mirror company structure.
- Provision **security groups** to manage access by department.
- Create **user accounts** and assign them to relevant groups.
- Apply **Group Policies** to enforce access restrictions.
- Demonstrate IAM governance in an on-premises enterprise setup.

## 4. Network Design



Device	IP Address	Role
Windows Server	10.0.2.3	AD Domain Controller (DC)
Windows 8 PC 1	DHCP	Client (HR Department OU–HR)
Windows 8.1 PC 2	DHCP	Client (IT Department OU – IT)

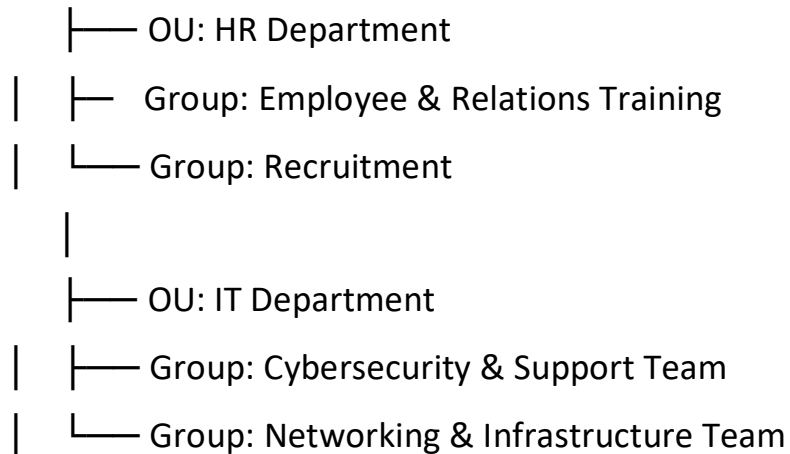
## 5. Domain Configuration

- **Domain Name:** damanitech.local
- **Server Name:** DAMANITECH
- **Static IP:** 10.0.2.3
- **Roles Installed:**
  - Active Directory Domain Services (AD DS)
  - DNS Server

## 6. Organizational Units (OUs) and Groups

The directory structure was created as follows:

Damanitech.local



## 7. Users and Group Memberships

Two test users were provisioned to demonstrate IAM principles:

Username	OU	Group Membership	Assigned Policy
Nelson.IT	IT OU	IT Department	Unable to shutdown
Keisha.HR	HR OU	HR Department	Disable removable disk access

## 8. Group Policy (GPO) Implementation

Two GPOs were created and linked to specific users through security filtering:

1. **GPO Name:** NoShutdown

- **Linked to:** IT Department OU (IT User – Nelson)
- **Policy:**

User Configuration → Administrative Templates → Start Menu and Taskbar

→ Remove and prevent access to the Shut Down, Restart, Sleep, and Hibernate commands

- **Result:** Nelson cannot shut down the assigned PC.

## 2. **GPO Name:** DisableRemovableDrives

- **Linked to:** HR Department OU (HR User – Keisha)

- **Policy:**

Computer Configuration → Administrative Templates → System →  
Removable Storage Access → Deny all access

**Result:** Keisha cannot use USB or external drives.

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## 9. Key Takeaways

- Successfully implemented an **IAM framework** on Active Directory.
- Mapped **business structure (regions and departments)** into OUs and groups.
- Demonstrated **access control enforcement** using Group Policy Objects (GPOs).
- Learned how to provision and manage **users, groups, and security policies**.
- Applied **identity governance principles** in a real-world simulated enterprise environment.

## 10. Screenshots (Evidence)

- OU and group structure in ADUC
- GPO editor settings
- User login results showing applied restrictions.

*Follow the step by step screenshot below as a guide.*

