

Making a Career in Identity & Access Management (IAM)

Control who gets in. Control what they can do. Control when they leave.

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IDENTITY

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1. What Is IAM — and Why Does It Matter?

Identity and Access Management is the set of policies, processes and technologies that ensure the right people have the right access to the right resources — and that no one else does. Every time an employee logs into a system, every time an application calls an API, every time a contractor accesses a client system — IAM is the discipline that controls, monitors and governs that access.

IAM has moved from a back-office IT function to the strategic centre of cybersecurity. With the collapse of the traditional network perimeter — driven by remote work, cloud adoption and third-party access — identity has become the new perimeter. The vast majority of data breaches involve compromised credentials or excessive permissions. IAM is the field that prevents both.

Over 80% of data breaches involve compromised credentials or stolen identities.

(Verizon DBIR, 2023). IAM is not a support function — it is the primary security control in every modern organisation.

| Level | Typical UK Salary | Common Roles |
|------------|---------------------|---|
| Junior | £32,000 – £50,000 | IAM Analyst, Identity Engineer (junior), AD/Azure AD Engineer |
| Mid | £52,000 – £75,000 | IAM Engineer, PAM Engineer, Identity Architect, SSO Engineer |
| Senior | £75,000 – £105,000+ | Senior IAM Architect, Head of Identity Security, PAM Programme Lead |
| Specialist | £600 – £1,100/day | IAM Consultant, CyberArk/SailPoint implementation specialist |

Table 1: UK salary ranges for IAM and identity security roles (CW Jobs, 2024)

2. The Five Pillars of IAM

IAM is not a single product or technology — it is a discipline covering five interconnected areas. Understanding all five, and how they relate, is essential for any IAM professional.

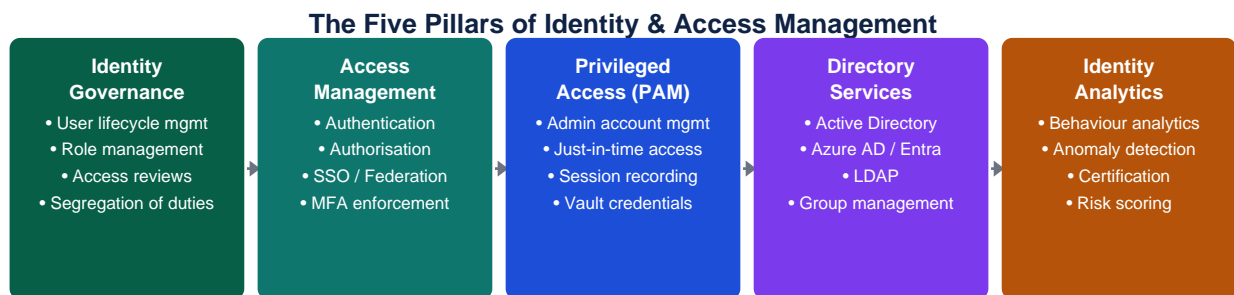


Figure 1: The five pillars of IAM — each addresses a different aspect of identity security.

| Pillar | What It Covers | Key Technologies |
|--|--|--|
| Identity Governance & Administration (IGA) | User lifecycle (joiner/mover/leaver), role management, access certifications, segregation of duties | SailPoint, Saviynt, Oracle Identity Governance, Microsoft Identity Manager |
| Access Management | Authentication, authorisation, SSO, MFA, session management | Okta, Azure AD/Entra, Ping Identity, ForgeRock, Auth0 |
| Privileged Access Management (PAM) | Admin account vaulting, just-in-time access, session recording, least privilege for privileged users | CyberArk, BeyondTrust, Delinea (formerly Thycotic), HashiCorp Vault |
| Directory Services | The central store of identity — users, groups, policies, organisational structure | Microsoft Active Directory, Azure AD/Entra ID, OpenLDAP, Google Cloud Identity |
| Identity Analytics & Intelligence | Detecting anomalous access patterns, risk-based authentication, certification campaigns | Varonis, Securonix, Microsoft Entra ID Protection, CyberArk Insight |

Table 2: The five IAM pillars — coverage and key technologies

3. Authentication — Proving Who You Are

Authentication is the process of verifying that someone is who they claim to be. It is the gateway to every system. Getting authentication wrong is the single most common cause of security incidents — and getting it right is the single most impactful security control an organisation can implement.

Authentication factors and methods

| Factor | What It Is | Examples | Security Level |
|--------------------|--|--|--|
| Something you know | Knowledge-based — requires memorisation | Password, PIN, security questions | Low — can be stolen, guessed or phished |
| Something you have | Possession-based — requires a physical token | TOTP app (Authenticator), hardware key (YubiKey), SMS code | Medium-High — SMS is weak; hardware key is very strong |
| Something you are | Biometric — requires a physical characteristic | Fingerprint, face ID, retina scan | High — hard to steal, but can be spoofed with effort |
| Somewhere you are | Location-based — requires network location | IP address range, GPS location, network segment | Medium — easily bypassed with VPN |
| Something you do | Behavioural — usage patterns | Typing rhythm, mouse movement, device behaviour | Low-Medium — supplementary factor only |

Table 3: Authentication factors — types, examples and security level

Modern authentication protocols

- **SAML 2.0 (Security Assertion Markup Language):** XML-based standard for exchanging authentication and authorisation data between an Identity Provider (IdP) and a Service Provider (SP). Foundation of enterprise SSO. Used heavily in corporate environments.
- **OAuth 2.0:** Authorisation framework — allows applications to access resources on behalf of a user without sharing credentials. Powers 'Login with Google/Microsoft' flows. Note: OAuth is for authorisation, not authentication.
- **OpenID Connect (OIDC):** Authentication layer built on top of OAuth 2.0. Adds identity — the IdP confirms who the user is via an ID token. The modern standard for consumer and developer-facing authentication.
- **FIDO2 / WebAuthn:** Passwordless authentication using public key cryptography. The user authenticates with a hardware key or device biometric — no password sent over the network. Highly phishing-resistant.
- **Kerberos:** Authentication protocol used in Microsoft Active Directory environments. Ticket-based system — users receive a Kerberos ticket that proves their identity to services. Understanding Kerberos attacks (Pass-the-Ticket, Kerberoasting) is essential for IAM security.

4. Authorisation — Controlling What You Can Do

Authentication answers 'who are you?' — authorisation answers 'what are you allowed to do?'. These are separate concerns and must be implemented separately. A user who has successfully authenticated still needs to be authorised before they can access any specific resource.

| Model | How It Works | Strengths | Common Use |
|---------------------------------------|---|--|--|
| RBAC — Role-Based Access Control | Access granted based on the user's role (e.g. 'Finance Analyst', 'IT Admin') | Simple to manage at scale. Roles map to job functions. | Enterprise applications, Active Directory group membership, cloud IAM |
| ABAC — Attribute-Based Access Control | Access granted based on attributes of the user, resource and environment (time, location, department, classification) | Very granular. Handles complex policies. Supports dynamic decisions. | Cloud platforms, data classification systems, Zero Trust implementations |
| PBAC — Policy-Based Access Control | Access governed by explicit policies written in policy language (e.g. OPA, XACML) | Auditable policies. Separation of policy from application code. | Cloud-native applications, microservices, Kubernetes |
| MAC — Mandatory Access Control | Access governed by security labels — users cannot override labels (top secret, secret, unclassified) | Highest assurance. Cannot be overridden by users. | Government and military systems, classified environments |
| DAC — Discretionary Access Control | Resource owner controls who can access their resource | Flexible — owners manage their own resources | File system permissions, shared drives |

Table 4: Access control models compared

The Principle of Least Privilege — users get the minimum access needed for their job.

Every permission above the minimum is a risk. Excessive permissions are the most common misconfiguration found in IAM security assessments.

5. Privileged Access Management (PAM)

Privileged accounts — domain admins, local admins, service accounts, database administrators, cloud super-admins — are the keys to the kingdom. If an attacker obtains a privileged account, they can access everything. PAM is the discipline of protecting, controlling and monitoring these accounts.

Core PAM capabilities

- **Credential vaulting:** Privileged account passwords are stored in an encrypted vault and never disclosed to users. When a user needs privileged access, they check out a session — they never see the actual password. CyberArk Digital Vault is the market leader.
- **Just-in-Time (JIT) access:** Privileged access is granted only when needed and automatically revoked when the task is complete. A sysadmin does not have permanent domain admin — they request it, use it for 2 hours, and it is removed. Massively reduces attack surface.
- **Session recording:** Every privileged session is recorded — all commands typed, all screens viewed, all data accessed. Recordings are stored for audit purposes and provide evidence for incident investigations.
- **Least privilege for service accounts:** Service accounts (used by applications and automation) are notoriously overpermissioned. PAM programmes audit and restrict service account permissions — and rotate their passwords automatically.
- **Privileged Threat Analytics:** Monitoring privileged account behaviour for anomalies — an admin accessing systems they never normally touch, at unusual hours, is a red flag. Tools: CyberArk PTA, BeyondTrust.

| PAM Platform | Market Position | Key Strengths | Typical Deployment |
|-----------------------------|----------------------|--|--|
| CyberArk | Clear market leader | Most comprehensive PAM — vault, JIT, session mgr, threat analytics. Standard in financial services and government. | Large enterprise, financial services, government |
| BeyondTrust | Strong #2 | Good combination of PAM + endpoint privilege management (EPM). Easier to deploy than CyberArk. | Enterprise, healthcare, manufacturing |
| Delinea (Thycotic/Centrify) | Growing | Cloud-friendly PAM. Secret Server for vaulting. Strong for hybrid cloud environments. | Mid-market to enterprise, cloud-first orgs |
| HashiCorp Vault | Open-source / DevOps | Developer-focused secrets management. Excellent for dynamic credentials in CI/CD pipelines. | Tech companies, DevOps teams |
| Microsoft PIM | Native Azure | Privileged Identity Management — JIT for Azure AD roles. Free with Azure AD P2. | Microsoft-centric organisations |

Table 5: Major PAM platforms — market position and strengths

6. Identity Governance and Administration (IGA)

IGA is the operational backbone of IAM — the processes and tools that manage identity throughout the user lifecycle. From the day someone joins an organisation to the day they leave, IGA governs what access they have, whether it is appropriate, and whether it is being reviewed.

The Joiner-Mover-Leaver (JML) process

The JML process is the most fundamental IGA concept. Every access-related problem in most organisations traces back to a failure in one of these three stages:

| Stage | What Happens | Common Failures | IAM Controls |
|--------------------------|---|---|--|
| Joiner — new starter | New employee account created, appropriate access granted based on role | Too much access granted (copy from previous employee). Access granted before background checks complete. | Role-based provisioning from HR system. Access request workflow with manager approval. Automated triggers from HR. |
| Mover — role change | Employee changes department, promoted or transfers — access should change | Old access not removed. New access added but incompatible with old access (creates SoD violation). | Automated de-provisioning of old role on transition. SoD policy enforcement. Manager re-certification. |
| Leaver — employee leaves | Employee leaves — all access must be immediately removed | Accounts left active for weeks after departure. Service accounts forgotten. Third-party access not revoked. | HR-triggered immediate account disable. Automated deprovisioning. Contractor/vendor access review. Token revocation. |

Table 6: Joiner-Mover-Leaver process — stages, common failures and controls

Access certifications

Access certifications (also called access reviews or access recertification) are periodic exercises where managers or resource owners review and confirm that each user's access is still appropriate. They are required by most compliance frameworks (SOX, PCI DSS, ISO 27001) and are a core IGA activity. Platforms like SailPoint and Saviynt automate the scheduling, workflow and reporting of certification campaigns.

7. Single Sign-On (SSO) and Federation

Single Sign-On allows users to authenticate once and gain access to multiple applications without re-entering credentials. Federation extends this across organisational boundaries — a user authenticates with their company identity provider and accesses a partner or SaaS application without a separate account.

| Concept | What It Means | Standard Used | Example |
|--------------------|---|---------------------------|---|
| SSO | One login grants access to multiple internal applications | SAML, OIDC, Kerberos | Employee logs into their laptop — automatically authenticated to email, HR system, file share |
| Federated Identity | Identity trusted across organisation boundaries | SAML, OIDC, WS-Federation | University student uses their university login to access Microsoft 365 or Zoom |
| Social Login | Third-party identity provider used for authentication | OAuth 2.0 + OIDC | 'Login with Google' on a consumer app — Google confirms identity |
| SCIM | Automated provisioning/deprovisioning across cloud apps | SCIM 2.0 | When Okta adds a user, it automatically creates their Salesforce and Slack accounts |

Table 7: SSO, federation and related identity concepts

8. Zero Trust and the Identity Perimeter

Zero Trust treats identity as the primary security perimeter. Every access request — regardless of where it comes from — must be verified. IAM professionals are central to Zero Trust implementation because identity is where verification happens.

Zero Trust Identity — Never Trust, Always Verify

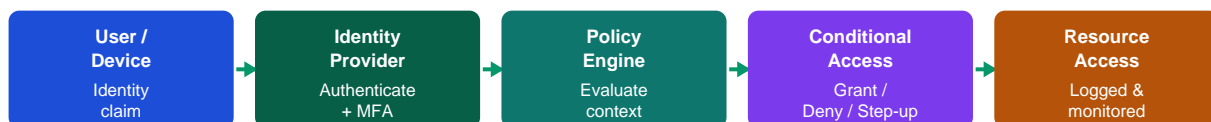
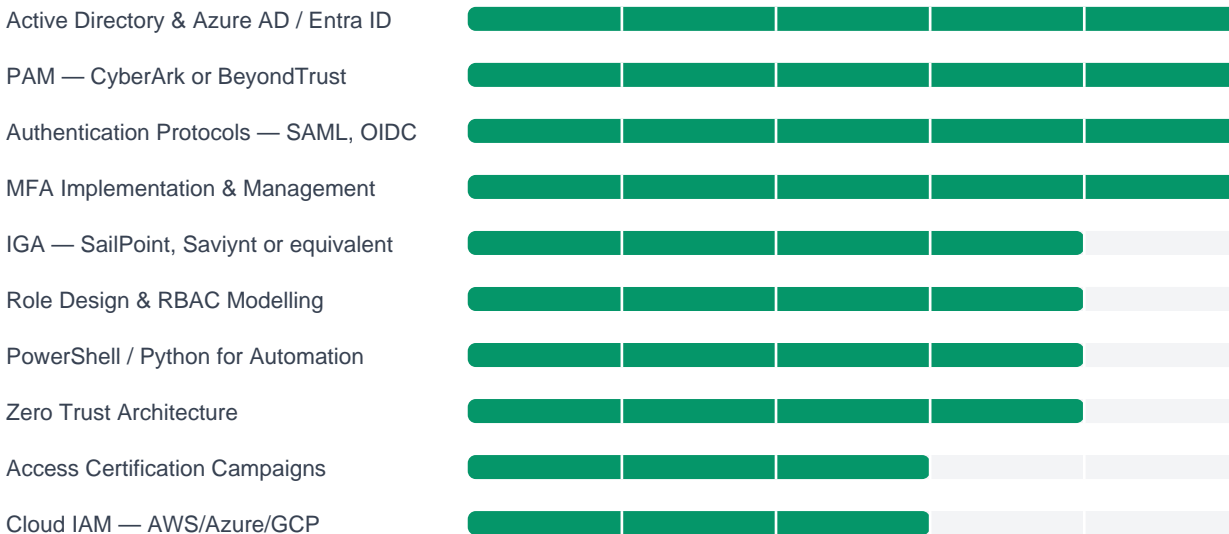


Figure 2: Zero Trust identity flow — every access request authenticated, evaluated and logged.

9. Core Skills and Tools

Skills expected at mid-level IAM engineer:



| Tool / Platform | Category | What It Does | Cost |
|---------------------------------------|-------------------------------|--|-----------------------------|
| Microsoft Active Directory / Entra ID | Directory & Identity Platform | The dominant enterprise identity platform. AD for on-premise, Entra ID for cloud. Knowing both is essential. | Included with Microsoft 365 |
| Okta | Identity Platform / SSO | Market-leading cloud identity platform. SSO, MFA, lifecycle management, API access management. | Commercial |
| CyberArk | PAM | Market-leading PAM platform. Credential vault, session management, JIT access, threat analytics. | Commercial |
| SailPoint IdentityNow / IIQ | IGA | Market-leading IGA platform. Role mining, access certification, joiner/mover/leaver automation. | Commercial |
| BeyondTrust | PAM + EPM | PAM plus endpoint privilege management. Good for organisations reducing local admin rights. | Commercial |
| Azure AD / Entra ID PIM | PAM (Microsoft) | Privileged Identity Management for Azure roles. JIT access, approval workflows, access reviews. | Free with Azure AD P2 |
| HashiCorp Vault | Secrets Management | Dynamic secrets, credential rotation, PKI. Essential for DevOps/cloud IAM. | Free / Commercial |
| Ping Identity | SSO / Federation | Enterprise SSO and federation platform. Strong in financial services. | Commercial |
| Saviynt | IGA / Cloud PAM | Modern IGA with strong cloud PAM capabilities. Growing competitor to SailPoint. | Commercial |
| PowerShell / Graph API | Automation | Automate AD and Entra ID tasks. Essential skill — most IAM engineers automate user lifecycle. | Free |

Table 8: Core tools for IAM professionals

10. Career Paths in IAM

IAM offers clear career progression from operational roles to architecture and leadership. It is one of the highest-paying technical specialisms in cybersecurity — particularly for specialists in CyberArk, SailPoint or Okta who are consistently in short supply. It also bridges technical and business roles more than most.

| Role | What You Do | Where You Work | UK Salary |
|---------------------------|--|--|-----------------|
| IAM Analyst / AD Engineer | Day-to-day identity operations — account management, group policy, access requests, provisioning. | Large enterprises, NHS, government | £32k–£50k |
| IAM Engineer | Implement and maintain IAM platforms — SSO, MFA, PAM configuration, lifecycle management. | Financial services, tech companies | £52k–£70k |
| PAM Engineer / Specialist | Implement and run PAM programmes — CyberArk or BeyondTrust deployment, vault management, session management. | Banks, critical infrastructure, consulting | £58k–£80k |
| IGA Engineer / Analyst | Implement IGA platforms — SailPoint, Saviynt. Role model, certification campaigns, provisioning connectors. | Large enterprises, consulting firms | £55k–£75k |
| IAM Architect | Design IAM strategy and architecture — Zero Trust identity, PAM programme, IGA roadmap, cloud identity. | Large enterprises, consulting | £75k–£105k |
| Head of Identity Security | Own the identity security programme. Team management. Interface with CISO and board. | Large enterprises, financial services | £90k–£120k+ |
| IAM Consultant | Independent implementation and advisory — CyberArk, SailPoint, Okta specialist. | Self-employed, big 4 consulting | £600–£1,100/day |

Table 9: Career paths in IAM (Reed, 2024; CW Jobs, 2024)

11. The Learning Roadmap

IAM has one of the clearest entry paths in cybersecurity for people coming from IT operations or system administration backgrounds. If you already manage Active Directory or Azure AD, you are already doing IAM — the security specialisation adds depth to that foundation.

1

Master Active Directory and Azure AD / Entra ID

If you do not know AD deeply — users, groups, OUs, GPOs, trusts, Kerberos — start here. Microsoft Learn has excellent free content on both AD and Entra ID. Build a home lab with a domain controller. 4–6 weeks.

2

Learn authentication protocols

Understand SAML 2.0, OAuth 2.0 and OpenID Connect. Know how SSO flows work step by step. Understand Kerberos authentication and its common attack vectors (Pass-the-Ticket, Kerberoasting, Golden Ticket). 3–4 weeks.

3

Get hands-on with MFA and Conditional Access

Set up Azure AD Conditional Access in a free tenant. Configure MFA requirements. Test Named Locations and device compliance policies. This is one of the most in-demand IAM skills in UK organisations using Microsoft 365. 2 weeks.

4

Learn PAM concepts and CyberArk basics

CyberArk offers free training on their Blueprint programme. Understand credential vaulting, JIT access, session recording. Even theoretical CyberArk knowledge is valued — the platform is everywhere. 3–4 weeks.

5

Study IGA — SailPoint or Saviynt

SailPoint University has free training. Understand the joiner/mover/leaver model, role management and access certifications. IGA specialists are chronically scarce and well-paid — this is a high-value specialisation. 3–4 weeks.

6

Get the Microsoft SC-300 certification

SC-300 (Identity and Access Administrator) is the most relevant Microsoft identity certification. Validates Entra ID, Conditional Access, PIM, B2B/B2C. Highly valued by UK employers. 4–6 weeks.

7

Add PAM certification

CyberArk Defender (entry) then CyberArk Sentry — the most widely required PAM certifications. BeyondTrust University offers free training. Either platform certification opens senior PAM engineer roles.

8

Apply for IAM roles

Active Directory Engineer, IAM Analyst and Identity Engineer roles are widely available. With SC-300 and CyberArk Defender your CV is competitive for mid-level positions. Financial services, NHS, government and MSSPs all hire regularly.

Timeline from IT background: 9–14 months to IAM engineer.

From AD/Azure AD background: 4–8 months adding security specialisation.

12. Certifications That Matter

| Certification | Level | Provider | Focus | Why It Matters |
|--|--------------|----------------|--|---|
| SC-300 — Identity and Access Administrator | Mid | Microsoft | Entra ID, Conditional Access, PIM, B2B/B2C, application integration | The most sought-after IAM certification for Microsoft-stack organisations — a large proportion of UK enterprises. |
| CyberArk Defender | Beginner–Mid | CyberArk | CyberArk PAM platform — vault administration, access control, session management | Entry-level CyberArk cert. Required or strongly preferred for PAM engineer roles. |
| CyberArk Sentry | Mid | CyberArk | Advanced CyberArk — complex deployments, integrations, troubleshooting | Mid-level CyberArk cert. Opens senior PAM roles at financial services and government. |
| Okta Certified Professional | Mid | Okta | Okta platform — SSO, MFA, lifecycle management, API access | Highly valued for organisations using Okta — increasingly common in UK tech and SaaS companies. |
| SailPoint Certified IdentityNow Engineer | Mid | SailPoint | SailPoint IGA platform — source management, role modelling, certifications | IGA specialists are scarce. SailPoint cert validates the most in-demand IGA platform skill. |
| CIAM — Certified Identity and Access Manager | Mid | IDPRO / (ISC)2 | Vendor-neutral IAM programme management, governance, compliance | Emerging vendor-neutral certification for IAM professionals moving into management. |
| CompTIA Security+ | Beginner | CompTIA | Broad security foundations including identity and access concepts | Good baseline before specialising. Required by some employers as prerequisite. |

Table 10: IAM certifications in order of relevance and progression

13. Case Study — A Credential Breach Through Overpermissioned Accounts

This fictional case study is based on common real-world IAM failure patterns. Overpermissioned accounts and stale access are involved in the majority of breaches.

The Organisation

Meridian Legal LLP is a 400-person UK law firm. They use Microsoft 365 and an on-premise file server for client case files. There is no PAM programme, no access certification process and no automated leavers procedure. Access is managed manually by a single IT administrator.

The problem — discovered during an IAM assessment

IAM assessment findings — three critical issues

Issue 1: A former senior partner who left 14 months ago still has an active Azure AD account with a valid Microsoft 365 licence, access to all client SharePoint sites and a mailbox containing confidential case correspondence. No one removed their account when they left.

Issue 2: A paralegal who was promoted to associate 2 years ago has both their old paralegal permissions and their new associate permissions — including access to the partners' billing system they should never have had.

Issue 3: The IT admin account 'admin_backup' with domain admin rights was created during a system migration 3

What happens — the breach

The former partner's account is compromised

A threat actor obtains the former partner's email address and password from a dark web credential dump — from a breach of a third-party service where she reused her password. No MFA is enforced on the account.

The attacker logs into Microsoft 365 using the valid credentials. Because the account was never deprovisioned, they have full access to 14 months of client case files, correspondence and commercially sensitive documents — all of which are exfiltrated over three days before the firm detects the unusual access pattern.

The IAM controls that would have prevented each failure

- **Automated leavers process:** Integration between HR system and Azure AD — when employment ends, account is automatically disabled within 24 hours. No manual dependency.
- **MFA enforcement via Conditional Access:** Even with valid credentials, the attacker would have been blocked — no way to satisfy the MFA challenge without access to the former partner's phone
- **Access certification campaign:** A quarterly review would have flagged the active account for a departed employee within 90 days of departure
- **Privileged account management:** The 'admin_backup' account would have been discovered, its purpose validated, and either deleted or vaulted with a rotated password
- **Mover process review:** Role change workflow with automatic removal of old access when new access is granted — preventing the paralegal/associate access accumulation

The entire breach was caused by a single IAM process failure: no leavers procedure.

An automated joiner/mover/leaver process would have cost roughly £15,000 to implement.

The breach — investigation, legal costs, ICO notification, client impact — cost £380,000+.

14. Breaking In — Getting Your First Role

IAM is one of the most accessible cybersecurity specialisms for people coming from IT operations, system administration or helpdesk backgrounds. You are likely already doing parts of IAM — managing AD accounts, handling access requests, setting up new starters. The specialisation adds security depth and strategy.

Build visible evidence of IAM skill

- **Free Azure AD / Entra ID tenant:** Create a free Microsoft 365 developer tenant. Configure Conditional Access policies, set up MFA, enable PIM for a test admin role, configure an enterprise application with SSO. Screenshot everything — this is your lab portfolio
- **CyberArk Blueprint training:** CyberArk offers free online training. Complete the Defender track. Even without a live platform, the certification demonstrates you understand the market-leading PAM product
- **SailPoint University free courses:** Complete the SailPoint IdentityNow fundamentals. IGA specialists are genuinely scarce — any validated IGA platform knowledge is valuable
- **Active Directory attack lab:** Build an AD lab using Windows Server Evaluation (free). Install BloodHound. Run it against your own domain. See what privilege escalation paths exist. This demonstrates both AD knowledge and security thinking
- **Write a JML process design:** Document how you would design a joiner/mover/leaver process for a 200-person company. Include the HR integration, the access request workflow, the certification schedule. Shows IAM programme thinking beyond just tooling

| Where to Look | Notes |
|---|---|
| CyberSecurityJobs.com | Search 'IAM engineer', 'identity engineer', 'PAM engineer', 'CyberArk', 'SailPoint' |
| LinkedIn | IAM roles post heavily — recruiters actively seek CyberArk and SailPoint specialists. SC-300 in your profile gets attention |
| Financial services (banks, insurers) | Largest IAM programmes in UK. Banks run dedicated IAM teams with constant hiring needs |
| NHS / public sector | Large AD environments, complex identity programmes. Entry-level accessible with SC-300 |
| Big 4 and consulting (Deloitte, KPMG, Accenture, IBM) | IAM consulting practices — implementation projects across multiple clients. Excellent for breadth |
| CyberArk / SailPoint / Okta partner firms | System integrators that implement these platforms hire platform-certified engineers constantly |

Table 11: Where to find IAM roles

Interview questions to prepare for

- What is the difference between authentication and authorisation? Give a practical example of each.
- Walk me through how SAML SSO works — step by step from user login to application access.
- What is a Kerberoasting attack and how would you detect and prevent it?
- Explain the Joiner-Mover-Leaver process. What are the most common failure points?

- What is Just-in-Time access and why is it better than standing privileged access?
- How would you approach an access certification campaign for an organisation with 5,000 users?
- What is Segregation of Duties (SoD) and why is it important?
- A user reports they can still access systems from their previous role. Walk me through how you investigate and remediate this.

The best IAM interview answer:

"Here is my Azure AD Conditional Access lab. Here is the CyberArk Defender cert."

Platform-specific knowledge consistently beats general identity theory.

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This is the final document in the Cybersecurity Career Series by Babashaheer.

01 — Ethical Hacking | 02 — Career Tree | 03 — Digital Forensics & IR
04 — Malware Analysis | 05 — Network Security | 06 — Application Security
07 — Cloud Security | 08 — SOC / Blue Team | 09 — GRC
10 — Threat Intelligence | 11 — OT/ICS/SCADA | 12 — IAM (this document)

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