**Adrian Antonio Johnson**

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**Summary:**

I am a senior infrastructure resource with a broad and deep range of experience from small startups to Fortune 100 enterprises. I have a reputation for going after the tough tasks and hard goals, designing, deploying, and operating/supporting those solutions accomplishing what the business needs to thrive.

**Technical Skills:**

● Active Directory: Domain Services, Entra ID, LDAP, Group Policy, AD migration, DNS, SSSD

● Single Sign On (SSO): Shibboleth (5.1.2), Active Directory Federation (ADFS)

● Security: MS/Duo MFA, PAM, LAPS, Digicert, Sectigo, PKI (Open Source and Microsoft), Microsoft Identity Management, Azure Key Vault, Venafi, Keyfactor

● Version Control: Git

● Cloud Services: Azure, Amazon Web Services (AWS)

● Debugging Tools: Sysinternals Suite, DISM, WinDbg

● Development Tools: Visual Studio Code

● Other: Quest – Active Directory Tools, Migration manager, Change Auditor

**Professional Experience:**

**Oxford Global Resources**, *Remote* **April 2024 – September 2024  
Client: University of Texas at Dallas**

Senior SSO Engineer / PKI Engineer

* Shibboleth SSO Enterprise Configuration:
  + Managed the configuration of Shibboleth Single Sign-On (SSO) for secure, federated authentication.
  + Used SAML (Security Assertion Markup Language) to enable secure identity exchange between Identity Providers (IdPs) and Service Providers (SPs).
  + Conduct application dependency analysis and manage migrations to cloud-based environments, focusing on minimizing disruptions and ensuring smooth transitions.
* Application Integration:
  + Integrated various enterprise applications into the Shibboleth SSO ecosystem, allowing seamless access across platforms.
  + Serve as the subject matter expert (SME) in Public Key Infrastructure (PKI) and Sectigo processes, providing technical leadership and expertise across internal teams.
  + Collaborate with cross-functional teams to implement solutions, ensuring seamless integration of PKI systems with network infrastructure and security protocols.
  + Successfully optimized Sectigo certificate management processes, resulting in faster issue resolution and improved system performance.
  + Utilized metadata exchange, attribute mapping, and policy enforcement to ensure proper authentication flows.
  + Lead the architecture, engineering, and implementation of on-premises and cloud IT infrastructure solutions for large to enterprise-sized clients, ensuring alignment with business objectives and long-term goals.
  + Develop reusable infrastructure components and frameworks for core IT solutions, streamlining deployments and ensuring consistency across client environments.
* Automation with Ansible:
  + Developed Ansible playbooks to automate the deployment and configuration of Shibboleth instances.
  + Ensured consistent configuration across multiple environments, reducing human error and improving efficiency.
  + Used Ansible to automate tasks such as certificate management, configuration file updates, and service restarts, ensuring uniformity in SSO configurations.
  + Utilized Git for version control and collaboration with team members, contributing to a successful release of 3 major product updates.

**Mastech Digital**, *Remote* **January 2022 – April 2024  
Client: City of San Francisco**

Senior AD Migration Engineer

* Active Directory (AD) Migration for 15,000 Users and Workstations:
* Managed the migration of 15,000 user accounts and workstations from a standalone domain to the Enterprise Active Directory (AD) and Entra enterprise environment.
* Led successful cross-forest migrations of Active Directory, including planning, execution, and post-migration support, using tools such as Quest for seamless transitions.
* Played a key role in migrating clients to hybrid identity environments, including integrating Microsoft Entra Connect and Entra SSO / app registrations to streamline authentication processes.
* Delivered tailored solutions for clients’ Active Directory and Microsoft 365 environments, including Group Policy, Entra Conditional Access, and other security measures, enhancing overall infrastructure security.
* Used Quest Active Directory Migration Tools (ADMT) to automate and streamline account and object migration, reducing manual errors and ensuring smooth transitions.
* Provide expert consulting on complex technical implementations involving On-Premises Active Directory, Microsoft Entra ID, Azure Solution Architecture, and Microsoft 365.
* Develop reusable infrastructure components and frameworks for core IT solutions, streamlining deployments and ensuring consistency across client environments.
* Leveraged custom PowerShell scripts for specialized tasks, such as handling specific user attributes, bulk account migration, and ensuring consistency in AD configurations.
* File Server Data Migration to OneDrive:
* Oversaw the migration of individual user directories from local file servers to OneDrive.
* Ensured data integrity and minimal downtime by using robust file migration strategies and tools like Robocopy to handle large data transfers.
* Managed permissions replication from the old file servers to NetApp filers, maintaining user access control throughout the migration.
* DNS and Group Policy Rationalization and Update:
* Rationalized and updated Group Policies (GPOs) to ensure they complied with Microsoft best practices.
* Streamlined and consolidated policies to enhance security, manageability, and performance in the new AD environment.
* Remediated DNS, re-engineered DNS scavenging and migrated workstations to enterprise DNS.
* Workstation Environment Migration:
* Facilitated the migration of workstations to the new AD environment by ensuring seamless reconfiguration for domain joins, trust relationships, user profiles, and software compatibility.
* Used PowerShell and Group Policy to automate the workstation migration process, ensuring minimal disruption to end-users.
* Password Update and Deployment of Local Administrator Password Solution (LAPS):
* Implemented updated password policies during migration, enforcing stronger password controls and ensuring compliance with security standards.
* Deployed Microsoft LAPS (Local Administrator Password Solution) to automate and securely manage local administrator account passwords across all workstations, enhancing security against potential lateral movement attacks.

**Techlink Resources**, *Remote* **January 2021 – January 2022  
Client: Universal Music Group**

Senior Active Directory PKI Architect

* Managed 3rd-Party PKI Vendors (Sectigo and Digicert):
* Oversaw certificate issuance, renewal, and management processes with Sectigo and Digicert, ensuring secure communications and data integrity across enterprise systems.
* Worked with PKI vendors to ensure compliance with corporate encryption policies and industry standards (such as TLS and X.509).
* Assisted with configuring, deploying, & implementing AppViewX within our Sandbox (Testing), Non-Production (Development) & Production Environments
* Presented PKI Lifecycle Solutions to Senior Management:
* Prepared and delivered a comprehensive breakdown comparing Venafi and Keyfactor PKI lifecycle management solutions.
* Analysis included a detailed review of lifecycle phases (e.g., issuance, renewal, revocation), integration capabilities, and long-term scalability to support the organization’s encryption strategy.
* Developed and presented a transition plan that mapped out the current state, the desired state, and a step-by-step approach to implement the selected solution.
* Leadership and Collaboration:
* Led cross-functional teams, collaborating with developers, security teams, and business stakeholders to deliver high-impact cloud projects.
* Provided technical leadership and mentorship, promoting cloud best practices, governance, and architectural excellence in cloud environments.
* Deployed Enterprise-Wide Certificate Discovery and Reporting:
* Implemented tools to discover and manage certificates across UMG enterprise systems, ensuring end-to-end certificate lifecycle management.
* Created reports to monitor certificate expiration and renewal status, reducing the risk of downtime due to certificate issues and enhancing security posture.
* Managed Cloud Key Management in Microsoft Azure Vault:
* Utilized Azure Key Vault to manage encryption keys for SQL Server databases, ensuring that keys are securely stored and managed in a cloud environment.
* Automated key rotation and rollover processes to comply with encryption best practices, minimizing manual intervention and reducing the risk of human error in key management.
* Developed Custom Let’s Encrypt Solution for Rapid Certificate Lifecycle:
* Designed and deployed a custom solution based on Let’s Encrypt, automating certificate issuance and renewal to support critical systems.
* Achieved rapid certificate lifecycle management, enabling the issuance and renewal of certificates within one day, drastically reducing wait times and enhancing operational agility.

**Eikon Consulting**, *Remote* **June 2020 – January 2021  
Client: CB Richard Ellis**

* Managed PKI Activities and Vendor Management:
* Managed all facets of the Public Key Infrastructure (PKI) process, including the issuance of certificates, evaluating the organization’s certificate requirements, and overseeing vendor partnerships with Venafi, Sectigo, and Digicert to ensure optimal service delivery.
* Implemented vendor tools to streamline PKI processes, managed budgets, and established cost controls and reporting to optimize PKI expenses.
* Implemented Keyfactor, Venafi, and Lemur (Netflix's Open-Source PKI):
* Piloted and evaluated enterprise key management solutions using Keyfactor, Venafi, and Lemur, testing their effectiveness in managing certificate lifecycles and integrating with corporate infrastructure.
* Focused on securing sensitive enterprise systems through robust key management practices, ensuring seamless deployment across various environments.
* Supported Active Directory Certificate Services (AD CS):
* Provided support for AD CS as the primary enterprise PKI solution, securing the issuance of certificates within the Active Directory environment.
* Developed and deployed PowerShell scripts to automate scanning of network addresses, building a comprehensive certificate inventory for better lifecycle management and compliance.
* Managed Active Directory (AD) Services Architecture:
* Governed the architecture and administration of Active Directory (AD), including DNS, ADFS, WINS, DFS, and Group Policies (GPOs).
* Ensured high availability, security, and scalability of AD services, while implementing governance and compliance controls over the environment to maintain system integrity and meet organizational standards.

**IBM, Inc.** - *Remote* **January 2017 – January 2020  
Sr. IAM Cloud Engineer, Hybrid Cloud**

* IBM Cloud Architecture and Solution Design:
* Designed and deployed scalable, resilient, and secure cloud solutions using IBM Cloud services, including IBM Cloud Kubernetes Service (IKS), IBM Cloud Functions, and IBM Cloud Virtual Servers.
* Led architecture for enterprise-level applications, utilizing Cloud Foundry, IBM Cloud Paks, and Red Hat OpenShift to ensure portability and scalability across hybrid cloud environments.
* Cloud Migration and Hybrid Cloud Strategy:
* Expert in planning and executing cloud migration strategies from on-premises or other cloud platforms to IBM Cloud, using tools like IBM Cloud Migration Services, Cloud Foundry, and VMware Solutions on IBM Cloud.
* Implemented hybrid cloud environments using IBM Cloud Satellite, enabling seamless integration between on-premises and IBM Cloud infrastructures for enhanced business continuity.
* Infrastructure as Code (IaC) and Automation:
* Automated infrastructure provisioning using Terraform and IBM Cloud Schematics, ensuring consistency and scalability across deployments.
* Deployed and automated CI/CD pipelines using IBM DevOps Services, integrating build, test, and deploy processes for continuous delivery.
* Security and Compliance in IBM Cloud:
* Architected secure, compliant solutions using IBM Cloud Security Advisor, IBM Key Protect, IBM Cloud Identity and Access Management (IAM), and IBM Cloud HSM for enterprise-grade security.
* Developed and enforced security policies across cloud environments, adhering to standards such as GDPR, HIPAA, and ISO 27001.
* Cost Optimization and Performance Management:
* Optimized cloud spending by implementing IBM Cloud Cost Management tools and strategies, including leveraging IBM Reserved Capacity and auto-scaling features.
* Monitored and tuned performance using IBM Cloud Monitoring, Sysdig, and LogDNA, ensuring optimal performance and uptime for mission-critical applications.
* Hybrid Cloud and Multi-Cloud Expertise:
* Designed multi-cloud and hybrid architectures using IBM Multicloud Manager, enabling centralized management of workloads across public, private, and multi-cloud environments.
* Integrated IBM Cloud Direct Link to create secure, low-latency connections between on-premises data centers and IBM Cloud for hybrid infrastructure.
* Leadership and Collaboration:
* Led cross-functional teams, collaborating with developers, security teams, and business stakeholders to deliver high-impact cloud projects.
* Provided technical leadership and mentorship, promoting cloud best practices, governance, and architectural excellence in cloud environments.
* Microsoft Identity Manager (MIM) Design and Implementation:
  + Led the architecture and deployment of Microsoft Identity Manager (MIM) solutions, managing identity lifecycles, user provisioning, synchronization, and de-provisioning processes across diverse systems.
  + Specialized in the integration of MIM with Active Directory (AD), Azure AD, and other enterprise applications to streamline identity management and improve security.
* Identity Lifecycle Management:
  + Architected and deployed solutions to automate user account provisioning, role-based access controls (RBAC), and identity synchronization across systems using MIM Synchronization Service and MIM Portal.
  + Integrated Self-Service Password Reset (SSPR) and Group Management features, empowering users to manage their own identities and groups while reducing IT overhead.
* Custom Workflows and Rule Development:
* Developed custom workflows and MIM rules extensions in C# and PowerShell to tailor identity management processes according to organizational needs.
* Implemented automated workflows for user account creation, attribute flow management, and role-based access assignments based on business requirements.
* Security and Compliance:
  + Implemented security controls within MIM to enforce identity governance and compliance, ensuring alignment with regulatory requirements such as GDPR and SOX.
  + Designed and implemented Privileged Identity Management (PIM) and Just-In-Time (JIT) access controls to secure high-privilege accounts and reduce the risk of insider threats.
* Automation and Scripting:
* Developed extensive PowerShell scripts for automating routine identity management tasks, such as bulk user provisioning, de-provisioning, and attribute updates.
* Advanced Troubleshooting and Performance Tuning:
  + Provided advanced support for complex issues within MIM environments, leveraging deep knowledge of Forefront Identity Manager (FIM) and MIM synchronization rules, logging mechanisms, and connectors.
  + Optimized MIM performance by fine-tuning run profiles, attribute flows, and synchronization schedules to minimize downtime and ensure high availability.
* Governance and Auditing:
* Set up detailed auditing and reporting within MIM to track user activity, account changes, and access controls, ensuring visibility into identity operations for governance and compliance purposes.
* Worked with auditors and stakeholders to deliver audit-ready reports and documentation related to identity management processes.
* Leadership and Collaboration:
* Led cross-functional teams to deliver identity management solutions across global enterprise environments, coordinating with security teams, infrastructure engineers, and business stakeholders.
* Provided training and mentorship to junior engineers, fostering a culture of best practices in identity management and security architecture.

**SAP, SuccessFactors**, *South San Francisco, CA* **January 2016 – January 2017  
Sr. Manager, Global Platform Operations**

* \**Redesigned Authentication for Nix Systems*: Implemented SSSD for centralized identity and authentication management using Active Directory, and developed operational standards, including writing RACI models, staffing plans, job descriptions, and conducting interviews.
* *Implemented ITIL Framework:* Successfully integrated ITIL processes to improve IT service management and operational efficiency.
* *Designed and Deployed Microsoft Public Key Infrastructure (ADCS):* Implemented PKI based on X.509 standards for encryption technologies, including SSL, Code-Signing, and User Certificates.
* *Integrated AD with RBAC System:* Streamlined user on-boarding by integrating AD group policy, DSC, and group management into the RBAC system; later designed and piloted Microsoft Identity Manager (MIM) for self-service password resets and RBAC management.
* *PowerShell Scripting Automation:* Designed and supported a PowerShell scripting framework, reducing manual administrative work by 80% and minimizing operator errors through automated code repositories and feedback loops.
* *Managed AD and DNS Infrastructure:* Scaled and optimized AD and external DNS infrastructure, improving availability and responsiveness by managing multiple DNS providers for a robust, highly available system.

**Branch.io**, *Palo Alto, CA* **January 2015 – January 2016  
Head of IT**

* *Managed Office Network and Hardware*: Solely responsible for managing network, security, and hardware deployment for an office of 60 users, ensuring smooth operations and support.
* *Implemented IAM for AWS Infrastructure*: Deployed an Identity and Access Management (IAM) system to provide security and audit controls for the production AWS infrastructure.
* *Optimized Network Performance with QoS*: Implemented Quality of Service (QoS) to manage network congestion and improve performance for the Wi-Fi-based office network.
* *Technical Architecture Support for Encryption Program*: Provided architectural guidance for Branch iO’s encryption and security program, utilizing Java and C++ for certificate authorities, directory services, and smart card systems.
* *Deployed Cloud-Based LDAP (DAAS)*: Implemented a cloud-based, fault-tolerant LDAP solution to provide Directory-as-a-Service (DAAS), supporting a global, remote workforce.
* *Reduced AWS Costs with Datacenter Migration*: Worked with engineering teams to design a cost-effective infrastructure, migrating from AWS to a data center, achieving a 50% ROI within 18 months post-implementation.

**Avanade Corp**, *Palo Alto, CA* **May 2012 – January 2016  
Head of IT  
Main Client: Stanford Hospital**

* *Implemented Forefront Identity Manager (FIM):* Deployed self-service password reset and GALsync to improve identity management; implemented Exchange organization federation to integrate with affiliate organizations for seamless communication.
* *Designed and Deployed ADFS Infrastructure*: Architected and implemented Active Directory Federation Services (ADFS) to enable Single Sign-On (SSO) for third-party web services like Box.com.
* *Active Directory Rights Management Services (AD RMS):* Designed and deployed AD RMS to protect sensitive documentation, while managing Service Level Agreements (SLAs) and policy definition and implementation.
* *Stanford Healthcare PKI Technical Support*: Provided architecture support for Stanford Healthcare’s PKI program, utilizing Java and C++ for certificate authorities, directory services, and smart card systems.
* *Managed Active Directory Infrastructure*: Oversaw AD replication troubleshooting, schema changes, forest and domain upgrades, and group policy management, including advanced features like loopback processing, WMI filters, and PowerShell integration.
* *Tier 3 Support for Microsoft Exchange*: Provided high-level support for MS Exchange 2010-2013, resolving availability issues and facilitating upgrades.
* *Designed and Deployed PKI for 40,000 Workstations and 3,000 Servers*: Implemented a robust Public Key Infrastructure (PKI) to support monitoring and configuration management across a large enterprise.
* *Implemented Microsoft Orchestration and DSC*: Designed and implemented MS Orchestration, creating a Desired State Configuration (DSC) infrastructure using PowerShell scripts to automate missing features.
* *Migrated Exchange to Office 365*: Led multiple enterprise-level MS Exchange migrations to Office 365, ensuring smooth transitions to the cloud.
* *Mentored and Developed Team Members*: Acted as a career manager, successfully mentoring team members, with 3 out of 5 direct reports achieving promotions.

Tethys Bioscience, Emeryville, CA 2011-2013

Wells Fargo (contract), San Francisco, CA 2010 – 2011

Lockerz.com, Redwood City, CA 2009– 2010

Sr. Linux Systems Architect  
Forest Pharmaceuticals, Earth City, MO 2009 – 2010

Sr. Microsoft Systems Architect  
Verizon Business Consulting, San Francisco, CA 2009 – 2009

Sr. Microsoft Systems Architect  
Asurion Mobile Services, San Mateo, CA 2008 – 2009

Sr. Cloud Architect  
Certain Software, San Francisco, CA 2007 – 2009

Global IT Director  
Dayo Industries, Dalian, PRC 2002 – 2006

Chief Technology Officer  
EMC Corp, Dublin, CA 2001 – 2002

Sr. Storage Architect

Williams-Sonoma, San Francisco, CA 2000 – 2001

Director, Network and Telecom Services

Reel.com, San Francisco, CA 1998 – 2000  
Director, Network Operations

iXL, San Francisco, CA   
Director, IT and Hosting Services 1997 – 1998

Microsoft Corporation, San Francisco, CA 1993 – 1998  
Sr. Program Manager