Emmanuel Asoh

CyberArk CERTIFIED DELIVERY ENGINEER

Executive Summary

Overall IT experience in requirement analysis, planning technical strategy, design, migration and implementation of CyberArk CORE PAS, CyberArk Endpoint Privilege Manager (EPM), Privilege Threat Analytics (PTA), CyberArk Idaptive and Alero, CyberArk AAM / UiPATH Integration.

# PROFESSIONAL SUMMARY:

* Experienced with CyberArk most recent implementation of CyberArk v9.2.1 to v11.6.
* Experience in Installing, upgrading, and configuring of CyberArk vault, PVWA, CPM and PSM, PSMP, OPM in Production and Disaster Recovery environment.
* Upgrade CyberArk v9.8 to v11.5 and v9.10.6 to v11.6 at several CDM Defend A Federal Agencies.
* Installed and configured CyberArk v11x on Azure and AWS Cloud
* Completed four implementation projects and onboarded over 10,000 windows and Linux secrets.
* Experience in managing Safes and Server/host addresses in Enterprise Password vault.
* Experience in resolving issues in Cyber Ark’s Central Password Manager to communicate with hosts to reconcile credentials.
* Administration experience of CyberArk vault with Safe creation, integration with LDAP and other authentication methods.
* Responsible for defining access control, user entitlements, and managing applications (EPV, EPV DR, CPM, PVWA, PSM, PSMP).
* Install and configure HTML5 Gateway, PTA and Network Sensor
* Experience in implementing and integrating various other components such as LDAP, SMTP, SAML, and SIEM.
* Responsible for maintaining the CyberArk environment, and work closely with the CyberArk Professional Services for overall optimization.
* Good knowledge of CyberArk PACLI to automate tasks related to user and safe management.
* Responsible for the creation of documentation indigenous to CyberArk Administrator of CyberArk's Privileged Account Management solution with several safes and with over 10,000 Accounts.
* Experience in Defining Access Control, User Entitlements, Manage Applications Credentials, User Access Policy Management etc.
* Experience in performing Privileged Access Reviews, Compliance Reporting, Access Control Processes, and other associated tasks with Privileged User Management.
* Liaise with account teams to ensure that business processes are adequately captured, and key risks are identified and assessed.
* Install AAM Central Credential Provider and integrate with UiPATH Orchestrator.
* Integrate Tenable SC with CyberArk Central Credential Provider

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| Privilege Account Management | CyberArk Privileged Account Security (PAS),CyberArk Endpoint Privileged Manager (EPM). Privilege Threat Analytics, Alero, Credential Provider (AAM), Centrify and CA PAM, CyberArk iDaptive and Alero |
| Application Access Management | CyberArk Conjur / Dynamic Access Provider (DAP), Credential Provider (CP), Central Credential Provider (CCP) |
| Directory Services | Microsoft Active Directory (AD), Azure AD Privileged Identity Management (Azure PIM) |
| Application & Web Servers | Oracle WebLogic Application Server, Oracle HTTP Server, Apache Web Server, JBOSS, Microsoft IIS. |
| Operating Systems | AIX, Sun Solaris 2.5,2.6, 8, 9, 10 AIX 5.1, 5.2, Red Hat Linux RHEL 4.x, 5.x,7x and Windows Servers 2012r2, 2016 and 2019 |
| RDBMS Database | Oracle 12c/11g/10g, Microsoft SQL Server 2005/2016, |
| Database Tools/Utilities | RMAN, OEM, SQL Navigator, Oracle Management Service (OMS), ASM, Export/Import, TOAD, Patch Management, ODBC, Data pump, Data guard. TKPROF, EXPLAIN PLAN, STATSPACK, AWR, ADDM |
| Cloud SAAS, IAAS, | Amazon Web Services, Azure |

**PROFESSIONAL EXPERIENCE:**

## Malten silver/Fiserv March 2021 – present

**Sr. CyberArk Engineer**

Deployed CyberArk 12.1 CorePas across 4 regions (NA, APAC, LATAH, EMEA) globally. Develop safe naming and platforms convention, onboard over 10,000+ Windows and Linux built-in accounts. Design and implemented managed pooled accounts. Installed and configured PTA servers, with PTA DR. Prepared documentations on all installed components (Distributed vaults, PVWA, CPM, PSM, PSMP, OPM, PTA). Prepared and documented DR runbook.

Deployed EPM SAAS across three regrions.

Accomplishment: Successfully completed project on time.

## AMG/CACI (DEFEND A) July 2019 – December 2020

Senior CyberArk & CA-PAM Engineer

Current working on CDM DefendA program to fortifying the cybersecurity of government networks and systems. CDM provides federal departments and agencies with capabilities and tools that identify cybersecurity risks on an ongoing basis, prioritize these risks based upon potential impacts, and enable cybersecurity personnel to mitigate the most significant problems first. As a DefendA CyberArk & CA-PAM SME, I was engaged in installing, configuring CyberArk and CA PAM tool to meet a variety of cyber security capabilities for eleven federal agencies in both classified and unclassified IT operational environments.

* Working on projects as an identity and privilege access management engineer, including identifying the right mix of tools and techniques to translate a client's needs and future goals into a plan that will enable secure and effective solutions.
* Installed and configure CyberArk v11.5 on AWS and Azure
* Installed and configure CyberArk PTA
* Install and configure CyberArk (AAM) Central Credential Provider and integrate and configure Tenable SC, Forescout and Axonius for password retrieval.
* Upgrade CyberArk v9x to v11x, v12x
* Implement CA PAM, import users and groups and set policies.
* Installation and configuration of the CyberArk platform, including conducting routine solution maintenance activities, monitoring the health of the platform, and conducting daily proactive monitoring of the CyberArk production environment.
* Monitor CyberArk to support any break fixes, upgrades, patches, and performance or integration related issues.
* Maintain responsibility for scheduling periodic reports and addressing audit findings. Support critical CyberArk functions, including maintenance, patch identification and publication, and upgrades of CyberArk and related modules.
* Maintain responsibility for privilege user incident management support, user acceptance testing of privilege accounts, load testing, performance testing, and validation testing of the CyberArk solution.
* Experience integrating CyberArk and CA PAM with SailPoint by installing and configurating (System of Cross Domain Identity Management (SCIM) Server.
* Experience integrating CyberArk and CA PAM with PIV (PKI) and LDAP
* Experience integrating CyberArk & CA PAM solutions to Splunk and/or IAM tools such as SailPoint.
* Experience integrating CyberArk & CA PAM solutions with multi-factor authenticators, namely PIV cards.
* Practical experience deploying PKI (PIV) solutions, including SSL.
* Hands on experience in deploying backup, high-availability, and DR environments (cold, warm and hot)
* Experience working with Microsoft Internet Information Services (IIS) and Active Directory (AD)
* Completed CyberArk upgrade from 9.8 to 11.4 at several DHS Federal agencies.
* Install and configure HTML5 Gateway at several Federal agencies.
* Install and configure PTA at several DHS Federal agencies.

## Experian September 2018 – JUNE 2019

Role: CyberArk Implementation and Operation Lead

* Successfully complete the implementation of Enterprise Vault across three regions (NA, UK and APAC). Components includes: Six CPM’s (Active and standby), two PVWA and PSM in each region load balance, two PSMP in each region.
* Install and configure primary Vault (2 node cluster), DR Vaults and satellite vaults in UK and APAC
* Onboard thousands of Windows and Linux account.
* Onboard secondary accounts for Domain administrator
* Deployed several use cases (dual control, shared account, check-in/checkout, JIT)
* Set up CyberArk on PCI servers for compliance.
* Lead in operational excellence, monitoring of CyberArk component servers.
* Integration of Okta Radius for MFA, Splunk for Vault monitoring, Service Now for ticketing and LDAP.
* Install and configure PTA POC for application monitoring use case.
* Install and configure CyberArk DNA for assessment of privileged accounts.

## Creterion systems April 2018 – November 2018

Responsibilities:

* Implement CyberArk Privileged Account Security (PAS)
* Install and configure Components Covered are – EPV Standalone, EPV 2 node Cluster, DR Vault, CPM, PVWA, PSM, PSMP, OPM, AIM, Upgrade, Integration (AD, Exchange, Splunk), Troubleshooting and support.
* Performed installation and configuration of Enterprise Password Vault, Central Policy Manager, Password Vault Web Access, PrivateArk Web Client Interface, Privilege Session Management, On-Demand Privileges Manager, High Availability Vault Cluster with Disaster Recovery Vault
* Implemented secure storage and retrieval of shared passwords, one-time passwords, exclusive, linked and dual-control passwords.
* Tested and implemented accounts passwords from a variety of platforms such as Windows, Unix/Linux
* Designed and authored Password Management policies,
* LDAP/Radius Integration for user authentication using Okta Radius.
* Installed and configured AIM providers on Linux (Config file having password) and Windows (DB startup script) to manage passwords in scripts.
* Installed and configured OPM for one of the Linux servers with pre-defined allowed and denied commands, set for a specific user group, documented all the steps for Linux Admin team and CyberArk Support Team to onboard more Linux servers with OPM.
* Integrated Password Vault log reporting to the SIEM solution (Splunk).
* Setup AD integration, email alert notifications (Exchange Integration) and SNMP Trap monitoring.
* Setup the Vault backup and replication processes.
* Developed and documented a trouble-shooting guide and provided solutions to Level 1 support.
* Mentored and trained a group of 4 associates on Password Vault.
* Prepared, tested and verified the Business Continuity Plan for Password Vault
* Recovery Planning System) detailing automatic failover to the stand-by Disaster Recovery site and subsequent failback to the Production site.
* Configured RemoteApp feature for transparent RDP to windows server’s local accounts as well as domain accounts.

**Environment:** Windows 2012R2, IIS, RDS, CyberArk (EPV, DR, CPM, PVWA, PSM, PSMP)

**ISYMMETRY/WWT March 2017 – November 2017**

Data Center Engineer- CyberArk

CyberArk.

* Implement CyberArk Privileged Account Security (PAS)
* Install and configure Components Covered are – EPV Standalone, EPV 2 node Cluster, DR Vault, CPM, PVWA, PSM, PSMP, OPM, AIM, Upgrade, Integration (AD, Exchange, Splunk), Troubleshooting and support.
* Performed installation and configuration of Enterprise Password Vault, Central Policy Manager, Password Vault Web Access, PrivateArk Web Client Interface, Privilege Session Management, On-Demand Privileges Manager, High Availability Vault Cluster with Disaster Recovery Vault
* Implemented secure storage and retrieval of shared passwords, one-time passwords, exclusive, linked and dual-control passwords.
* Tested and implemented accounts passwords from a variety of platforms such as Windows, Unix/Linux
* Designed and authored Password Management policies,
* LDAP/Radius Integration for user authentication using Okta Radius.
* Installed and configured AIM providers on Linux (Config file having password) and Windows (DB startup script) to manage passwords in scripts.
* Installed and configured OPM for one of the Linux servers with pre-defined allowed and denied commands, set for a specific user group, documented all the steps for Linux Admin team and CyberArk Support Team to onboard more Linux servers with OPM.
* Integrated Password Vault log reporting to the SIEM solution (Splunk).
* Setup AD integration, email alert notifications (Exchange Integration) and SNMP Trap monitoring.
* Setup the Vault backup and replication processes.
* Developed and documented a trouble-shooting guide and provided solutions to Level 1 support.
* Mentored and trained a group of 4 associates on Password Vault.
* Prepared, tested, and verified the Business Continuity Plan for Password Vault
* Recovery Planning System) detailing automatic failover to the stand-by Disaster Recovery site and subsequent failback to the Production site.
* Configured RemoteApp feature for transparent RDP to windows server’s local accounts as well as domain accounts.

J**MA-IT June 2015 – July 20**16

Currently BlueFly.

Role: Started role as database administrator and transition to CyberArk Engineer, responsible in database account discovery and onboarding accounts into CyberArk. Install and configure CyberArk CorePAS

## Cerner Corporation September 2012 – October 2015

## Sr. Database Administrator

This role entails development, test, and Production support. The role requires interaction with other teams and client. Daily maintenance review, optimization, performance tuning, patching, upgrading database, tuning scripts and general database installation support. Databases running on Oracle 11g and AIX, Linux platforms. Provided 24\*7 on call support on rotation as production support DBA.

Responsibilities:

* Worked as an Oracle DBA with two nodes RAC databases running on Linux machines, supporting more than 150 Instances of Oracle Databases 11g sized 500 GB up to 23 TB with more than 1200 concurrent users. Worked in a 24/7 Environment supporting On-call rotation and resolving Alerts/job failures and Production issues.
* Administering Real Application Cluster (RAC) databases running on Cluster File system OCFS2.
* Install Oracle 11g binary for RAC and Single Instance environments. Created, Configured, and supported several 11g RAC databases with Enterprise Manager Database Grid Control feature.
* Configured ASM and handled issues and suggested feasible workarounds for ASM Metadata corruption.
* Monitoring, identifying areas that need to be improved in the application and database using AWR, ADDM, Grid Monitoring.
* Tuned SQL Queries, AWR report and hit ratios, advise by ADDM OEM 10g web grid control.
* Utilized RMAN for backup and Recovery strategy and NetBackup.
* Cloned databases for test environment.
* Support Microsoft SQL server
* Team member of rotational On-call dba’s providing 24/7 production environment.
* Automated UNIX shell scripts to load data into Fact and Dimension tables.
* Responsible for scheduling and holding design reviews as needed to support the development processes.
* Created Materialized views, groups for performing SQL\*Loader jobs for data loading and use Data pump jobs for loading the subscriber and history related data at replicated site.
* Regular DBA activities like Undo segments, Rollback segments, database auditing, space management, database issues, locking, managing user groups and tuning.

**Environment**: Oracle 11g and 12c OEM GRID, LINUX, RMAN, RAC, Datapump, Flashback.

## JMA-IT / EPA Region 7 June 2007 – August 2012

Database Administrator

Worked by interacting with Linux Admins/Windows Admins, Storage admins as well as developers. Involved in building a 3 node 10g RAC and dataguard for Data Warehouse Environment.

Responsibilities:

* The work involves overall ORACLE Database Maintenance, Performance Tuning, Backup, Recovery and other Database related activities.
* Installation and Configurations of 9i, 10g databases.
* Daily Health Check of the Database and Monitoring Alert Logs of all databases.
* Performance Tuning of Applications/Databases using various Oracle tools like SQL Trace, Explain Plan, AWR and ADDM.
* Designed the database schema and created any necessary database objects.
* Partitioning Strategies for very large tables.
* Implementing Range, List Partitions, Hash Sub Partitions, Creating and refreshing materialized views.
* 24x7 on-call production database support
* Data refresh from production to test and development, maintain Database Security.

**Environment:** Oracle 9i, Oracle 10g RAC, Dataguard, Windows, RedHat Linux, Shell Scripts, ASM, RMAN, OEM/Grid Control, TOAD, SQL Developer, Data Pump.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Education and Training:**

Master’s in business administration (MBA- Finance) - (Webster University) - 2016

Bachelor of Science - Business Administration (University of Wisconsin-La Crosse) - 1996

CyberArk Install and Configure & Vault administration (CyberArk University) April 2015

CyberArk Alero Install and Configure (CyberArk University) April 2015

CyberArk EPM (CyberArk University) September 2019

CyberArk Conjur / Dynamic Access Provider (DAP) (CyberArk University) December 2020

AWS Solution Architect Associate -2018

Microsoft Azure Cloud Training - 2019

Microsoft Azure Active Directory Training - 2019

Azure AD Privileged Identity Management - 2020

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Certifications**

Oracle Certified Professional (OCP) – 2007

CyberArk Certifications (Trustee, Defender, Sentry, and Certified Delivery Engineer)