

Privileged Access Manager (PAM) Install and Configure Course Agenda

Description	The Privileged Account Management (PAM) Install and Configure course covers CyberArk's Enterprise Password Vault (EPV) and Privileged Session Management (PSM) solutions. In this course students will be asked to install and implement a PAM environment from scratch, based on real life customer specifications and requirements, with focus on secure deployment.	
Target Audience	<ul style="list-style-type: none">■ IT administrators and engineers who will implement the PAS solution and Vault Administrators who manage existing PAS environments.	
Objectives	Upon completion of this course the participant will be able to: <ul style="list-style-type: none">■ Describe the system architecture and workflows■ Perform the installation of the various components■ Secure the installed CyberArk components■ Implement and test DR and Backup solutions	
Topics	The course includes the following topics: <ul style="list-style-type: none">■ PAM Architecture■ EPV Installation■ System Integrations■ Authentication Methods■ PSM Installation■ PSM for SSH Installation■ Vault Availability Solutions■ EPV Performance Tuning	
Technical Prerequisites	<ul style="list-style-type: none">■ A laptop or desktop computer that can connect to the Internet with a browser that supports HTML 5 and can access the following web-based services<ul style="list-style-type: none">○ Skytap, use this link to test connectivity https://cloud.skytap.com/connectivity (choose the region closest to you)○ WebEx (online only), use this link to test WebEx connectivity http://www.webex.com/test-meeting.html	
Course Prerequisites	<ul style="list-style-type: none">■ Successful completion of PAM Administration■ Basic networking knowledge■ Basic windows administration knowledge■ Basic UNIX/Linux knowledge – recommended	
Duration	4 days	

Daily Agenda

Day One	Enterprise Password Vault	
Topic/Task	Description/Activity	
Privileged Access Management Architecture (01)	<ul style="list-style-type: none">■ PAM review covering the Digital Vault, High Availability and Component Server deployment strategies.	
The Vault (02)	<ul style="list-style-type: none">■ Layers of Security■ Design■ Installation■ Hardening and Security	
Pages 10-27	Practical Exercise	
Component Deployment CPM, PVWA (03)	<ul style="list-style-type: none">■ Functionality■ Installation■ Environment■ Redundancy and Load Balancing■ Hardening and Security	
Pages 28-52	Practical Exercise	

Day Two	Enterprise Password Vault	
Topic/Task	Description/Activity	
Integrations (04)	<ul style="list-style-type: none">■ LDAP over SSL■ SMTP■ SNMP■ SIEM■ NTP	
Pages 50-64	Practical Exercise	
Authentication Methods (05)	<ul style="list-style-type: none">■ Vault Level Authentication■ PVWA Level Authentication■ Two Factor Authentication	
Pages 65-75	Practical Exercise	
Pre-Implementation Guidance	<ul style="list-style-type: none">■ Customer Preparedness■ Communication■ Expectation management	
EPV Testing and Validation	<ul style="list-style-type: none">■ Windows Account■ Unix Account■ Oracle Account	
Pages 76-79	Practical Exercise	

Day Three Privileged Session Management	
Topic/Task	Description/Activity
PSM (06)	<ul style="list-style-type: none">■ Functionality■ Installation■ Architecture■ Vault environment■ Hardening and Security
Pages 80-91	Practical Session
PSM Load Balancing (07)	<ul style="list-style-type: none">■ Redundancy and Load Balancing
Pages 92-94	Practical Session
PSM for SSH (08)	<ul style="list-style-type: none">■ Functionality■ Installation■ Architecture■ Vault environment■ Hardening and Security
Pages 95-100	Practical Session

Day Four Vault Availability, Security and Performance	
Topic/Task	Description/Activity
Securing CyberArk with CyberArk (12)	<ul style="list-style-type: none">■ Manage Administrative Accounts with CPM■ Connect to Administrative interfaces with PSM
Pages 101-119	Practical Session
Backup and Disaster Recovery (10)	<ul style="list-style-type: none">■ Overview and Functionality■ Architecture■ Installation■ Management
Pages 120-140	Practical Session
High Availability Clustering (09) Optional Lab	<ul style="list-style-type: none">■ Overview and Functionality■ Architecture■ Installation (optional)■ Management
Optional Lab	Optional Practical Session
EPV Configuration and Performance Tuning (11)	<ul style="list-style-type: none">■ CPM Performance Tuning■ PVWA Performance Tuning