

# PRIVILEGED ACCOUNT SECURITY - APPLICATION IDENTITY MANAGER

<b>Description</b>	Students will learn how to secure application account passwords and remove hard-coded credentials using CyberArk's Application Identity Manager (AIM).
<b>Target Audience</b>	Customers or partners who will implement CyberArk's AIM solution and/or manage existing deployment.
<b>Objectives</b>	<p>After completion of this course each student will be able to:</p> <ul style="list-style-type: none"> <li>▪ Install, configure, and implement CyberArk's AIM solution according to CyberArk's published implementation procedures</li> <li>▪ Define and describe CyberArk's AIM system architecture, requirements, offerings, and workflow.</li> <li>▪ Design and deploy an enterprise AIM environment following least privilege access principles.</li> <li>▪ Administer and troubleshoot AIM to successfully query credentials from the Vault using the PasswordSDKs, SOAP/REST APIs, and managing data source connectivity using Application Server Credential Provider.</li> </ul>
<b>Topics</b>	<p>The course includes the following topics:</p> <ul style="list-style-type: none"> <li>▪ AIM technology overview</li> <li>▪ Credential Provider installation and configuration</li> <li>▪ Application provisioning and authentication</li> <li>▪ Querying the Vault using the PasswordSDKs</li> <li>▪ Enterprise implementation</li> <li>▪ Central Credential Provider</li> <li>▪ Application Server Credential Provider</li> </ul>
<b>Technical Prerequisites</b>	<p>Verify and check the following prior to scheduled course:</p> <p>Computer with Internet connectivity</p> <p>Web browser that supports HTML5</p> <p>Test connectivity to following web-based services:</p> <p><a href="https://cloud.skytap.com/connectivity">https://cloud.skytap.com/connectivity</a></p> <p><a href="http://www.webex.com/test-meeting.html">http://www.webex.com/test-meeting.html</a></p>
<b>Course Prerequisites</b>	Successful completion of the Privileged Account Security (PAS) Fundamentals Course.
<b>Duration</b>	2 days



# DAILY AGENDA

DAY ONE	
Topic/Task	Description/Activity
Course Opening	
Application Identity Manager (AIM) Overview	<ul style="list-style-type: none"><li>▪ Privileged Account Security (PAS) Overview</li><li>▪ Hard-Coded Credentials Overview</li><li>▪ Application Identity Manager (AIM) Overview</li><li>▪ AIM Offerings &amp; Comparison Matrix</li><li>▪ High-Level Use Cases</li></ul>
Credential Provider	<ul style="list-style-type: none"><li>▪ Credential Provider Technology Overview</li><li>▪ Architecture &amp; Network Topology</li><li>▪ Authentication Methods</li><li>▪ Secure Cache Overview</li><li>▪ High-Availability &amp; Performance</li><li>▪ Credential Provider Installation</li></ul>
Administration	<ul style="list-style-type: none"><li>▪ Credential Provider Configuration Overview</li><li>▪ Utilities &amp; Commands Overview</li><li>▪ Application Provisioning Overview</li><li>▪ Password Management</li><li>▪ Dual Account Provisioning</li></ul>
Implementation	<ul style="list-style-type: none"><li>▪ Implementation Overview &amp; Workflow</li><li>▪ Planning &amp; Design</li><li>▪ Provider Installation &amp; Configuration Practices</li><li>▪ Application Provisioning Concepts</li><li>▪ Implement PasswordSDK</li><li>▪ Activate &amp; Support</li></ul>
Practical Exercise	Credential Provider (Windows & Linux)



# DAILY AGENDA

DAY TWO	
Topic/Task	Description/Activity
Central Credential Provider	<ul style="list-style-type: none"><li>Central Credential Provider Overview</li><li>Architecture &amp; Topology</li><li>Authentication Methods</li><li>Application Authentication Workflow</li><li>High-Availability &amp; Performance</li><li>Installation Overview</li></ul>
Application Server Credential Provider	<ul style="list-style-type: none"><li>Application Server Credential Provider Overview</li><li>Architecture &amp; Topology</li><li>Authentication Methods</li><li>Secure Cache</li><li>High-Availability &amp; Performance</li><li>Installation Workflow Overview</li></ul>
Troubleshooting	<ul style="list-style-type: none"><li>Documentation and Guides</li><li>Logging &amp; Log Files Overview</li><li>Debug Levels</li><li>Common Errors &amp; Troubleshooting</li></ul>
Push Mode	<ul style="list-style-type: none"><li>Push Mode Overview</li><li>Workflow &amp; Network Communication</li><li>Supported Platforms Overview</li><li>Uses Cases Overview</li></ul>
Practical Exercise	<b>Configuring Dual Accounts</b> <b>Central Credential Provider</b> <b>Application Server Credential Provider</b> <b>Push Mode</b> <b>Application Provisioning Bulk Upload</b>