



# APPLICATION ACCESS MANAGER

(Agentless Central Credential Provider CCP)

## INTEGRATION WITH SOLARWINDS DATABASE PERFORMANCE ANALYZER

Name of Company: SolarWinds, Inc.

Website: <https://www.solarwinds.com/>

Name of Product: Database Performance Analyzer

Version: 2021.3

Date: August 2021

## PARTNER SOLUTION OVERVIEW

SolarWinds® Database Performance Analyzer (DPA) monitors, diagnoses, and resolves performance problems for many types of database instances, including both self-managed databases and ones in the cloud. DPA has an agentless architecture and uses wait-based analytics.

Version: 2021.3

Platform components:

- DPA Server

## KEY BENEFITS

Benefits of Database Performance Analyzer:

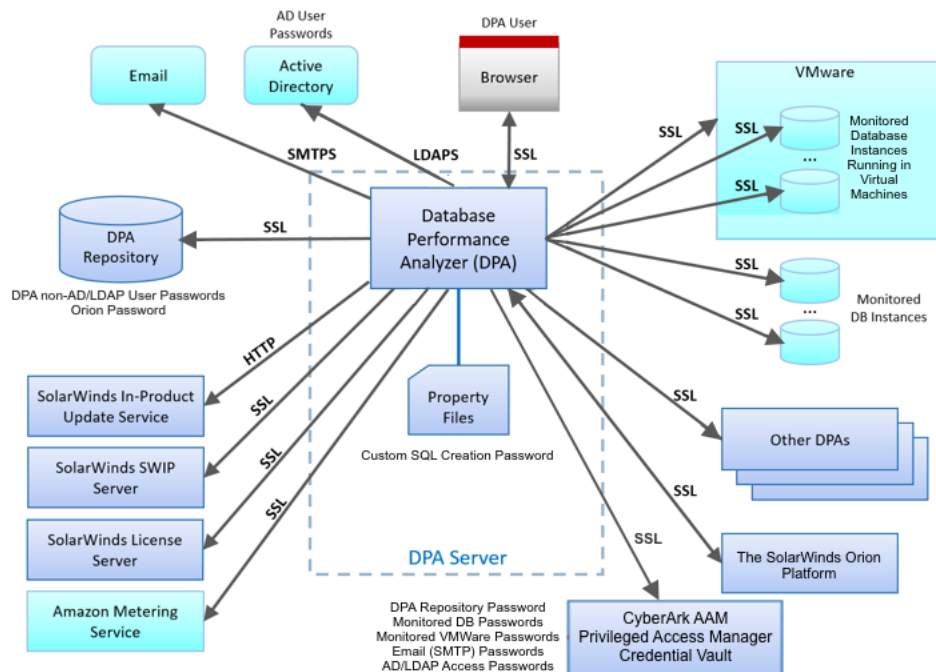
- Find your worst-performing applications, SQL, and tables in seconds
- Goes beyond problem analysis with expert advice on table tuning and query advisors
- 24/7, down-to-the-second monitoring for both real-time and historical analysis
- Hybrid monitoring for virtualized, physical, and cloud-based database instances
- Uncover root causes, from CPU and I/O down to the SQL statement
- Visualize all wait times, from resources to blocking, host and VM resources, and more
- Performance anomaly detection powered by machine learning
- Detailed blocking and deadlock analysis exposes your SQL blocking hierarchy
- Integrated VMware ESXi™ visualization
- Ability to search for and filter individual SQL query statements

Benefits of integrating Database Performance Analyzer with CyberArk® AAM:

- Centralized credential management for the following:
  - DPA-monitored database instances
  - DPA-monitored VMware® servers
  - The DPA database repository
  - Email (SMTP)
  - Active Directory® (AD) servers

## PRODUCT DIAGRAM AND DESCRIPTION OF PRODUCT INTEGRATION

DPA encrypted communication and credential management diagram when integration to **CyberArk AAM** is configured:



## AAM INTEGRATION

- DPA is calling AAM REST API—interaction with local agent isn't currently supported
- DPA supports only single AAM per instance—it's not possible to use different AAM instances with single DPA installation

## CREDENTIAL RETRIEVAL

- Credentials are retrieved when required (e.g., DPA startup, monitored database startup, vSphere® monitor startup, etc.) when the connection/pool is being initialized
- Additionally, there's a periodic check every 10 minutes for credentials invalidation to check if the credentials should be changed while DPA is running
- In case of failure to get credentials from CyberArk, the credentials are purged from connections/pool after 30 minutes

## REQUIREMENTS

- DPA needs to be able to establish a connection to the AAM Server
- Refer to the [DPA Installation Guide](https://documentation.solarwinds.com/en/success_center/dpa/content/install-dpa-requirements.htm) at [https://documentation.solarwinds.com/en/success\\_center/dpa/content/install-dpa-requirements.htm](https://documentation.solarwinds.com/en/success_center/dpa/content/install-dpa-requirements.htm)
- No special hardware requirements

## AAM INSTALLATION

Refer to the following CyberArk documentation for CCP installation:

[https://docs.cyberark.com/Product-Doc/OnlineHelp/AAM-CP/Latest/en/Content/CCP/CCP-Installation.htm?tocpath=Installation%7CCentral%20Credential%20Provider%7C\\_1](https://docs.cyberark.com/Product-Doc/OnlineHelp/AAM-CP/Latest/en/Content/CCP/CCP-Installation.htm?tocpath=Installation%7CCentral%20Credential%20Provider%7C_1)

## AAM CONFIGURATION

The following sections provide details on configuring Database Performance Analyzer with CyberArk AAM.

### DEFINING THE APPLICATION ID (APPID) AND AUTHENTICATION DETAILS

To define the application, define it manually through the CyberArk Password Vault Web Access (PVWA) interface:

- ☐ Log in as a user allowed to manage applications (this requires Manage Users authorization).
- ☐ In the Applications tab, click **Add Application**. The Add Application page appears.

**Add Application**

Name: DPA

Description: SolarWinds Database Performance Analyzer

**Business owner**

First Name: John

Last Name: Smith

Email: john.smith@xyz.com

Phone: (123) 456-7890

Location: \Applications

☐ Access Permitted: From: To:

☐ Expiration Date:

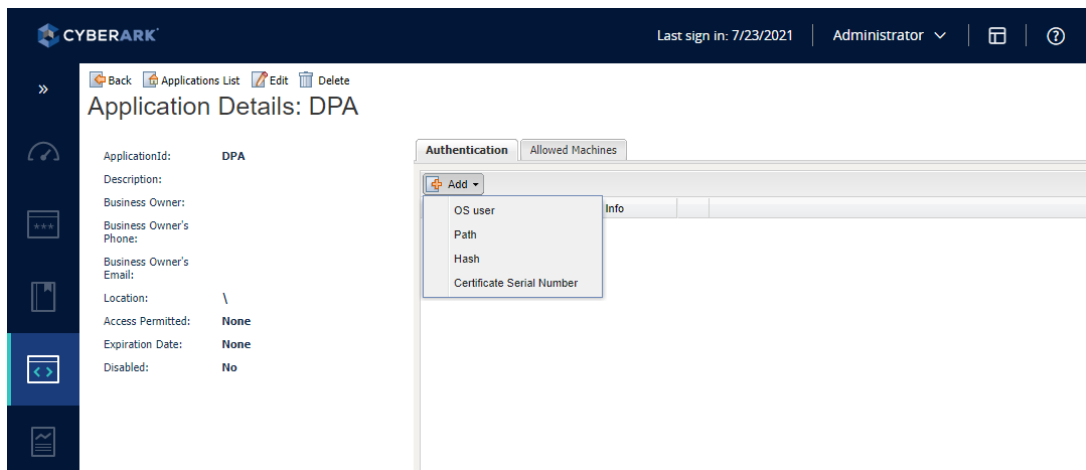
☐ Disabled

Add Cancel

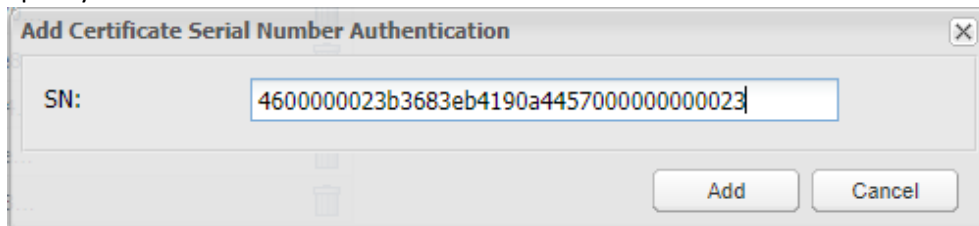
- ☐ Specify the following information:
  - In the **Name** box, specify the unique name (ID) of the application. The recommended Application ID for this integration is **DPA**.
  - In the **Description** box, specify a short description of the application to help you identify it.

- In the **Business owner** section, specify contact information about the application's business owner.
- In the **Location** box, specify the location of the application in the Vault hierarchy. If a location isn't selected, the application will be added in the same location as the user who's creating this application.

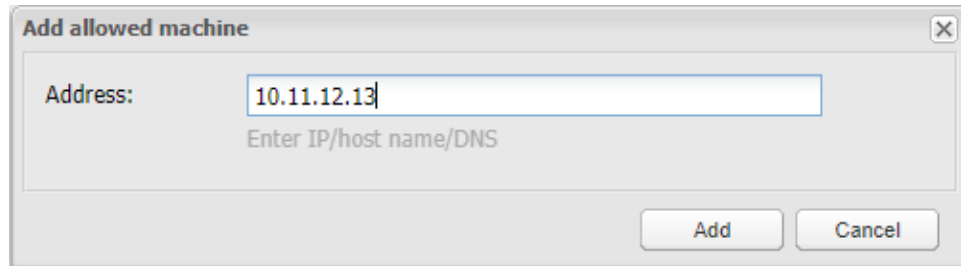
- ☐ Click **Add**. The application is added and displayed in the Application Details page.



- ☐ Check the **Allowing extended authentication restrictions** box. This enables you to specify an unlimited number of machines and Windows® domain OS users for a single application.
- ☐ Specify the application's **Authentication** details. This information enables the Credential Provider to check certain application characteristics before retrieving the application password.
- ☐ In the Authentication tab, click **Add**. A drop-down list of authentication characteristics is displayed.
- ☐ Specify the Certificate Serial Number. DPA uses the client certificate to authenticate.



- ☐ Specify the application's Allowed Machines. This information enables AAM to make sure only applications running from specified machines can access their passwords.
  - In the Allowed Machines tab, click **Add**. The Add allowed machine window is displayed.

A screenshot of a Windows-style dialog box titled "Add allowed machine" with a close button (X) in the top right corner. The dialog contains a label "Address:" followed by a text input field containing the IP address "10.11.12.13". Below the input field is a hint text "Enter IP/host name/DNS". At the bottom right of the dialog are two buttons: "Add" and "Cancel".

Add allowed machine

Address: 10.11.12.13

Enter IP/host name/DNS

Add Cancel

- In the **Address** box, specify the IP/hostname/DNS of the machine where the application will run and request passwords, then click **Add**. The IP address is listed in the Allowed Machines tab.

## PROVISIONING ACCOUNTS AND SETTING PERMISSIONS FOR APPLICATION ACCESS

For the application to perform its functionality or tasks, the application must have access to particular existing accounts or new accounts to be provisioned in CyberArk Vault.

Provision the privileged accounts in the Safe the ApplicationID used for this process has access to. You can do this in the following way:

- **Manually**—Add accounts manually one at a time and specify all the account details.
  - **DPA does not automatically update or relate entities it connects to with CyberArk.** All access configurations for DPA (e.g., to monitored database instances) must be done manually.

## PARTNER PRODUCT INSTALLATION AND INTEGRATION CONFIGURATION

Refer to the [Database Performance Analyzer Installation and Upgrade Guide](#) document as well as this [DPA CyberArk Configuration](#) document for installation and configuration details.

The points below are a summarization of the DPA configuration tasks. Please review the DPA documentation for specific details in the steps.

- Obtain the client certificate and URL for connecting to the CyberArk CCP
- Configure the properties files in DPA with required information about the connection
- Establish trust between the CyberArk CCP and DPA
- Enable Auto-Invalidation of monitored connections
- Enable the DPA CyberArk integration

## PARTNER CONTACT INFO

Please review <https://www.solarwinds.com/company/contact-us> for a variety of SolarWinds contact types and locations.

|                   |                           |                                                                                                                                                                             |
|-------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Business Contact  | Name                      | SolarWinds Sales                                                                                                                                                            |
|                   | Email                     | <a href="mailto:sales@solarwinds.com">sales@solarwinds.com</a>                                                                                                              |
|                   | Tel                       | +1-866-530-8100                                                                                                                                                             |
| Technical Contact | Name                      | SolarWinds Success Center                                                                                                                                                   |
|                   | Success Center            | <a href="https://support.solarwinds.com/Success_Center">https://support.solarwinds.com/Success_Center</a>                                                                   |
|                   | DPA Thwack User Community | <a href="https://thwack.solarwinds.com/product-forums/database-performance-analyzer-dpa">https://thwack.solarwinds.com/product-forums/database-performance-analyzer-dpa</a> |
| Support Contact   | Name                      | SolarWinds Technical Support                                                                                                                                                |
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|                   | Tel                       | +1-866-530-8040, option 3                                                                                                                                                   |