Active Directory (UPN) Configuration Guide

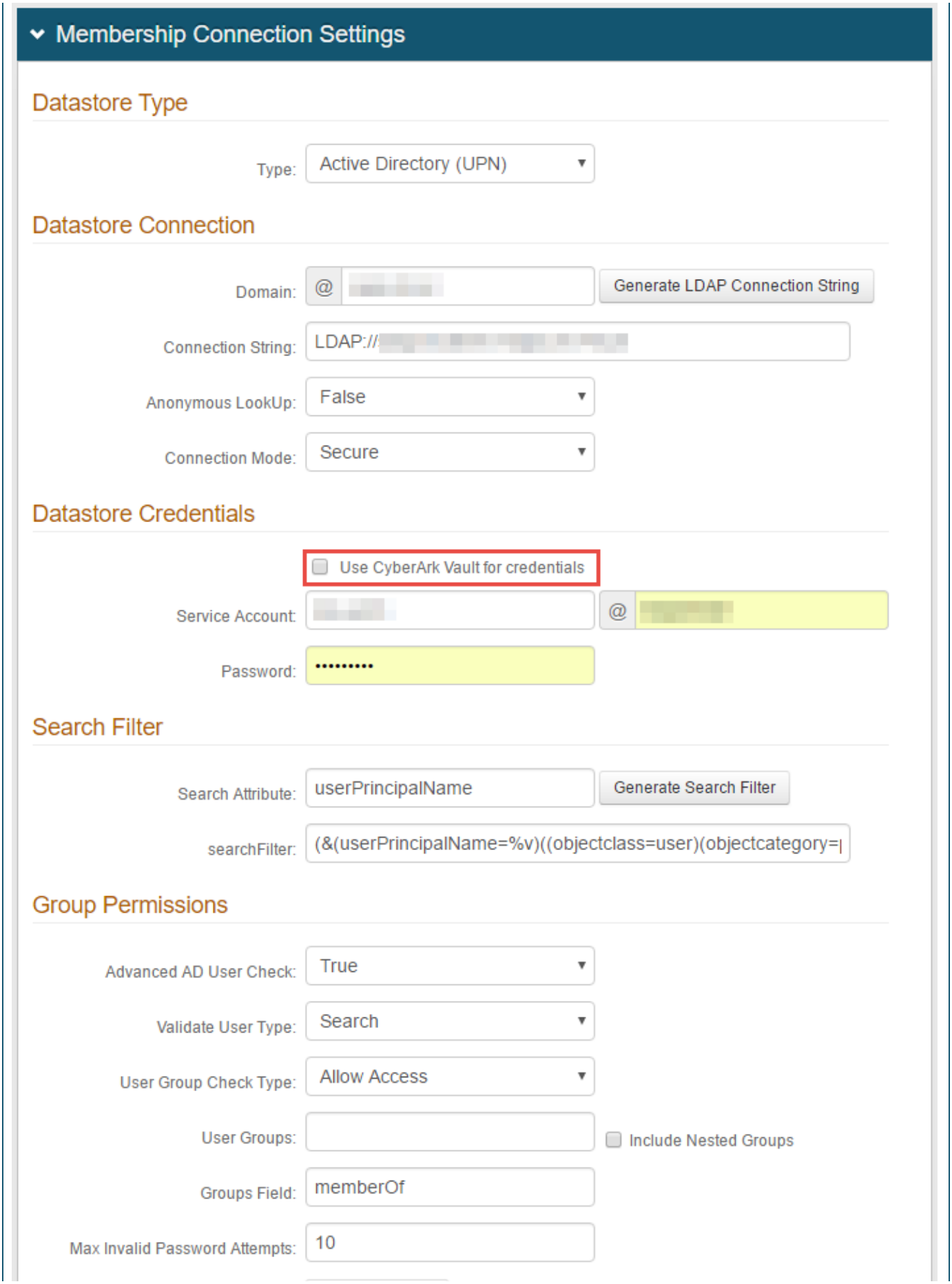
Introduction

Use this guide along with the **Data Tab Configuration** guide to configure an Active Directory (UPN)-integrated SecureAuth IdP realm.

Prerequisites

- An on-premises **Active Directory** data store
- A service account with read access (and optional write access) for SecureAuth IdP

Active Directory (UPN) Configuration Steps


Membership Connection Settings
Datastore Type
Type:
Active Directory (UPN)
Datastore Connection
Domain:
@
Generate LDAP Connection String
Connection String:
LDAP://
Anonymous LookUp:
False
Connection Mode:
Secure
Datastore Credentials
Use CyberArk Vault for credentials
Service Account:
@
Password:
Search Filter
Search Attribute:
userPrincipalName
Generate Search Filter
searchFilter:
(&(userPrincipalName=%v)((objectclass=user)(objectcategory=
Group Permissions
Advanced AD User Check:
True
Validate User Type:
Search
User Group Check Type:
Allow Access
User Groups:
Include Nested Groups
Groups Field:
memberOf
Max Invalid Password Attempts:
10

Datastore Type

1. Select **Active Directory (UPN)** from the **Type** dropdown

Datastore Connection

2. Provide the **Domain** of the Active Directory

3. Click **Generate LDAP Connection String**, and the **Connection String** will auto-populate

4. Select **False** from the **Anonymous LookUp** dropdown

5. Select the type of **Connection Mode** to be used from the dropdown

> **Connection Mode pertains to how SecureAuth IdP and the directory connect:**
>
> - **Secure**: Enable a secure LDAP connection on Port 389, using NTLMv2.
> - **SSL**: Enable a secure connection on Port 636, but uses Secure Socket Layer technology, which relies on certificates.
> - **Standard**: Enable a standard LDAP connection on Port 389 that uses basic authentication (plain text).

Datastore Credentials

> If using CyberArk Vault for credentials, enable **Use CyberArk Vault for credentials** and follow the steps in **CyberArk Password Vault Server and AIM Integration with SecureAuth IdP**
>
> With this feature, steps 6 and 7 are not required

6. Provide the SecureAuth IdP **Service Account** username, and it will be @ the directory domain

7. Provide the **Password** that is associated with the **Service Account**

Search Filter

8. Provide the **Search Attribute** to be used to search for the user's account in the directory, e.g. **userPrincipalName**

> To use OATH OTPs (one-time passcodes) for Multi-Factor Authentication, the **Search Attribute** directory field ***must be*** the same in the OATH Provisioning realm and *all realms* using OATH OTPs for Multi-Factor Authentication.

9. Click **Generate Search Filter**, and the **searchFilter** will auto-populate

> The value that equals **%v** is what the end-user will provide on the login page, so if it is different from the **Search Attribute**, change it here

For example, if the **Search Attribute** is **userPrincipalName** , but end-users will log in with their email addresses (field= **mail**), the **searchFilter** would be **(&(mail=%v)((objectclass=user)(objectcategory=person)))**

Group Permissions

10. Select **True** from the **Advanced AD User Check** to check for more information than just the username, such as if the account is locked

11. Select **Search** from the **Validate User Type** dropdown if SecureAuth IdP is to use the search function to find a username and password

    Select **Bind** if SecureAuth IdP is to make a direct call to the directory to validate the username and password

12. Select **Allow Access** from the **User Group Check Type** to create a list of allowed user groups; select **Deny Access** to create a list of denied user groups

13. Provide the allowed or denied **User Groups** based on the selection in step 12, e.g. **Admins**

    Leave this field blank if there is no access restriction

14. Check **Include Nested Groups** if the subgroups from the listed **User Groups** are to be allowed or denied access as well

15. Provide the **Groups Field** that contains users' groups, e.g. **memberOf**

16. Set the **Max Invalid Password Attempts** before a user's account is locked

17. Click **Test Connection** to ensure that the integration is successful

Refer to **Data Tab Configuration** to complete the configuration steps in the **Data** tab of the Web Admin

Refer to **LDAP Attributes / SecureAuth IdP Profile Properties Data Mapping** for information on the **Profile Properties** section