



LDAP Authentication Profile Testing

Avi Technical Reference (v17.1)

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Avi Vantage provides an option for testing authentication profiles configured on the Avi Controller.

Testing an Authentication Profile

After an authentication profile is created, it is added to the list on the Templates > Security > Auth Profile page. Click the verify icon



next to a profile name to test that profile. A popup appears, prompting for information needed to perform the test.

The screenshot shows the 'Auth Profile' page in the Avi Vantage interface. The page has a navigation bar with 'Templates', 'Profiles', 'Groups', 'Security', 'Scripts', and 'AutoScale'. The 'Security' tab is active. Below the navigation bar, there are tabs for 'SSL/TLS Certificates', 'SSL/TLS Profile', 'PKI Profile', 'Auth Profile', 'Certificate Management', and 'HSM Groups'. The 'Auth Profile' tab is selected. A search bar is at the top left, and a 'Create' button is at the top right. The main content area displays a table of LDAP authentication profiles. The table has columns for 'Name' and 'Type'. The 'Name' column is sorted in descending order. The table lists 8 profiles, all of which are of type 'LDAP'. The 'Verify' icon (a question mark in a box) is circled in red for each profile.

Name	Type
Corporate LDAP Server	LDAP
LDAP test server	LDAP
LDAP anonymous bind	LDAP
Temporary LDAP server	LDAP
OpenLDAP administrator	LDAP
OpenLDAP secure administrator	LDAP
OpenLDAP anonymous	LDAP
OpenLDAP secure anonymous	LDAP

Test Options for LDAP Authentication Profiles

The popup for testing an LDAP authentication profile requires some information to be entered. The information is used in the request Vantage sends to the LDAP server to test the profile.

Test Inputs for Anonymous Bind

If the LDAP authentication profile is configured to use anonymous binding for authentication requests, the popup for testing the profile prompts for the LDAP user's username and password. Testing whether a user can bind successfully verifies that the LDAP authentication profile is configured correctly to authenticate users with the same user DN pattern.

Verify Auth Profile: OpenLDAP anonymous

Name
OpenLDAP anonymous

Username *
abcdef

Password *
.....

Results

```
o: example.com  
  
dn: cn=admin,dc=example,dc=com  
objectClass: simpleSecurityObject  
objectClass: organizationalRole  
cn: admin  
description: LDAP administrator  
  
dn: ou=People,dc=example,dc=com  
objectClass: organizationalUnit  
objectClass: top  
ou: People  
  
dn: ou=Groups,dc=example,dc=com  
objectClass: organizationalUnit  
objectClass: top
```

Cancel Verify

Verify Auth Profile: OpenLDAP anonymous

ldap_bind: Invalid credentials (49)

Name
OpenLDAP anonymous

Username *
unknownuser

Password *
.....

Cancel Verify

Test Inputs for Administrator Bind

If the LDAP authentication profile is configured to use administrator binding for authentication requests, one of the following types of information can be specified on the verification popup for the profile.

- **Test user entry:** Searches the LDAP server's database for the specified username, and returns the corresponding user entry from the LDAP database. This option is useful for listing all attribute key-value pairs for any given user. The user search settings configured in the authentication profile are used. If the Username field is left empty, Vantage pulls the entire list of user records from the LDAP database. (While this causes no harm, it can take some time to fulfill, which may be undesirable in some deployments.)

Verify Auth Profile: LDAP test server ✕

Name
LDAP test server

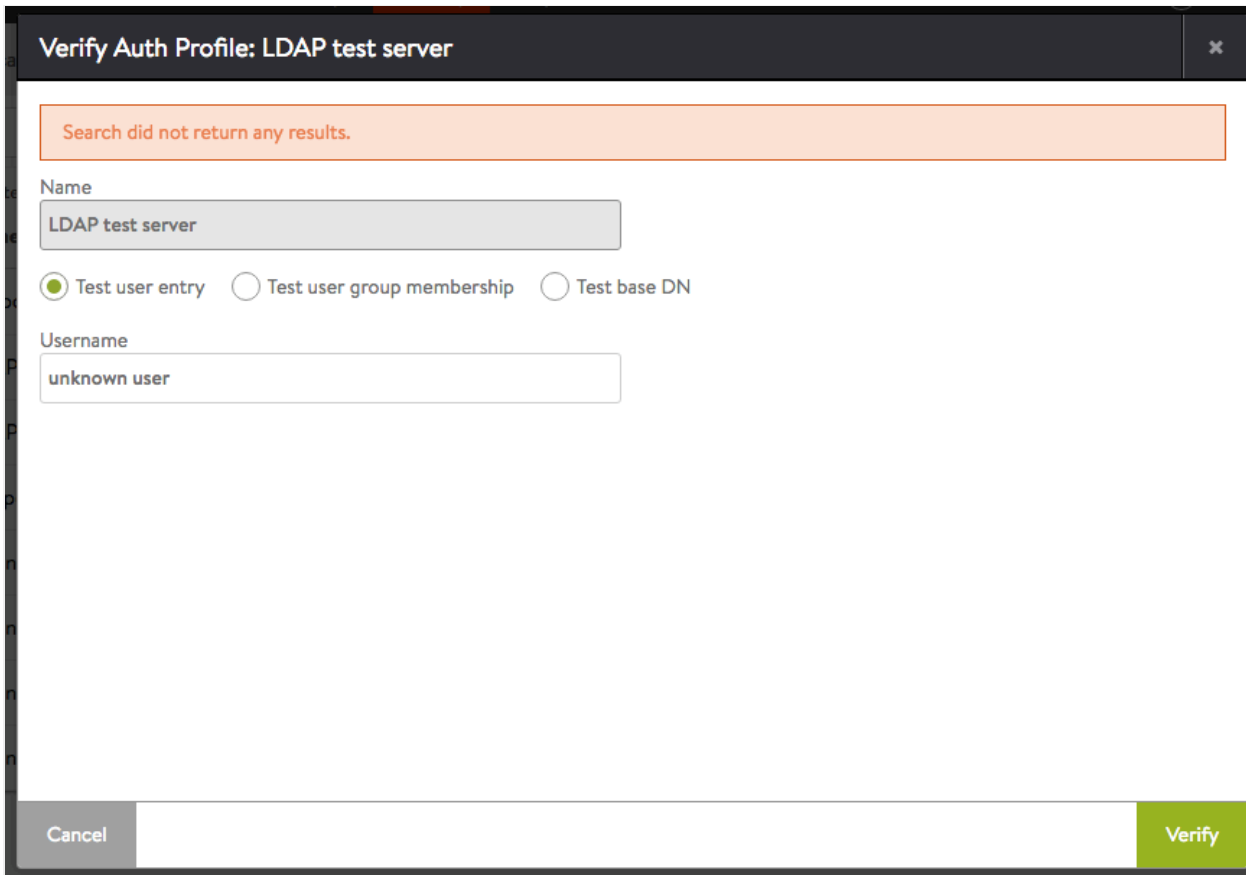
Test user entry Test user group membership Test base DN

Username
jenkinstest3

Results

```
dn: CN=jenkins test3,CN=Users,DC=avi,DC=local
objectClass: top
objectClass: person
objectClass: organizationalPerson
objectClass: user
cn: jenkins test3
sn: test3
givenName: jenkins
distinguishedName: CN=jenkins test3,CN=Users,DC=avi,DC=local
instanceType: 4
whenCreated: 20150804062713.0Z
whenChanged: 20160728072459.0Z
displayName: jenkins test3
uSNCreated: 78927
```

Cancel Verify



The image shows a dialog box titled "Verify Auth Profile: LDAP test server". At the top, there is a message: "Search did not return any results." Below this, there are three input fields: "Name" containing "LDAP test server", "Username" containing "unknown user", and a set of radio buttons for "Test user entry" (selected), "Test user group membership", and "Test base DN". At the bottom, there are "Cancel" and "Verify" buttons.

- **Test user group membership:** Lists all group memberships for the specified user. The group search settings configured in the authentication profile are used. If the Username field is left empty, all groups are returned.

Verify Auth Profile: LDAP test server

Name
LDAP test server

Test user entry Test user group membership Test base DN

Username
CN=jenkins test3,CN=Users,DC=avi,DC=local

Results

```
dn: CN=Enterprise Admins,CN=Users,DC=avi,DC=local
objectClass: top
objectClass: group
cn: Enterprise Admins
description: Designated administrators of the enterprise
member: CN=jenkins test4,CN=Users,DC=avi,DC=local
member: CN=jenkins test3,CN=Users,DC=avi,DC=local
member: CN=Administrator,CN=Users,DC=avi,DC=local
distinguishedName: CN=Enterprise Admins,CN=Users,DC=avi,DC=local
instanceType: 4
whenCreated: 20130405220838.0Z
whenChanged: 20150806101658.0Z
uSNCreated: 7697
```

Cancel Verify

- **Test base DN:** Returns all objects under the base DN. This option is useful for testing administrator permissions and for reading the DN tree of the LDAP server.

Verify Auth Profile: OpenLDAP secure administrator
✕

Name

OpenLDAP secure administrator

Test user entry
 Test user group membership
 Test base DN

Results

```

dn: dc=example,dc=com
objectClass: top
objectClass: dcObject
objectClass: organization
dc: example
o: example.com

dn: cn=admin,dc=example,dc=com
objectClass: simpleSecurityObject
objectClass: organizationalRole
cn: admin
description: LDAP administrator
userPassword:: e1NTSEF9QmdFdDBuZDE4cEVwZldkRFIxWWpUWGhsNGRQaTRWTik=

dn: ou=People,dc=example,dc=com
objectClass: organizationalUnit
objectClass: top
                
```

Cancel
Verify

Error Scenarios: The test page can identify some common error scenarios.

- LDAP server IP/port incorrect.

Verify Auth Profile: Corporate LDAP Server

ldap_sasl_bind(SIMPLE): Can't contact LDAP server (-1)

Name
Corporate LDAP Server

Test user entry Test user group membership Test base DN

Username
admin

Cancel Verify

- **Bad username or User Search settings are incorrect**

Verify Auth Profile: LDAP test server

Search did not return any results.

Name
LDAP test server

Test user entry Test user group membership Test base DN

Username
unknown user

Cancel Verify

- User is either not a member of any group or Group Search settings are incorrect

Verify Auth Profile: LDAP test server

Search did not return any results. LDAP Auth Profile settings have group member is full dn flag turned on, hence search for User DN first and put the full DN in username field for groups.

Name
LDAP test server

Test user entry Test user group membership Test base DN

Username
jenkinstest1

Cancel Verify