# How to connect to the Oracle by using LDAP auth with OID or LDAP server

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The driver supports two different concepts when it comes to LDAP. The LDAP-based OID (Oracle implementation of the LDAP authentication) authentication and the retrieval of Oracle connection info (host, port, serviceName, etc) that are stored on LDAP server. And these two concepts in the LDAP world would require different connection strings.

## For LDAP auth with LDAP server

1. On the **Linked services** page, select **Code** link under the **Name** column of your Oracle linked service.
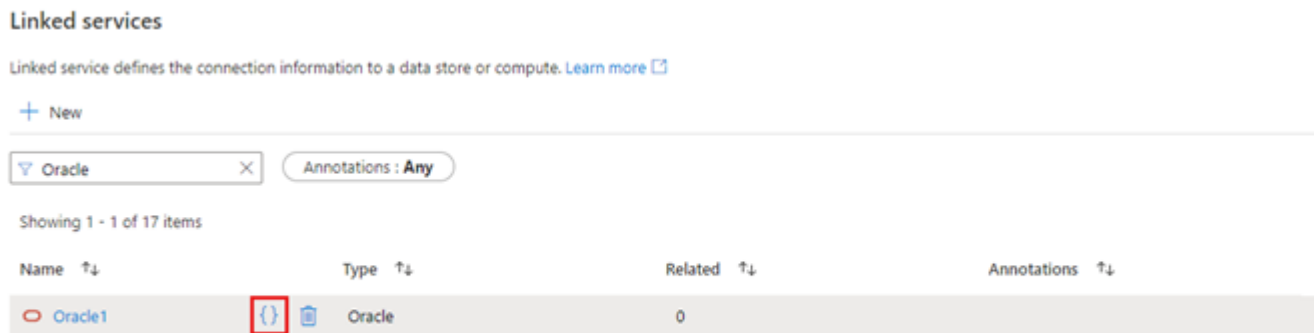


2. Assemble the connection string.

   At the end of connectionString in the JSON, add ;LDAPDistinguishedName=<DistinguishedName> (replace DistinguishedName with your distinguished name), and then select Apply.

```
"properties": {
    "type": "Oracle",
    "typeProperties": {
        "connectionString": "host=<HostName>;port=<PortNumber>;sid=<SID>;user id=<UserID>;ldapdistinguishedname=<DistinguishedName>"
    },
```

   The connection string property **LDAPDistinguishedName** is the fully qualified path of names in the LDAP directory information tree for the entry containing your connection information.

   For example, cn=DB122,cn=OracleContext,dc=america,dc=yourcompany,dc=com.

   **Note**: if a value is specified for this property, the ServerName and PortNumber properties are used to specify the host and port number for the LDAP directory server. - If this property is specified, do not specify the following properties to prevent connection information conflicts: AlternateServers FailoverMode LoadBalancing SDUSize ServerType ServiceName SID. If any of these properties are specified in addition to the 'LDN' property, the driver throws an exception.

## For LDAP auth with OID (Oracle Internet Directory)

On Oracle linked service UI, make sure **Oracle SID** is selected as the connection type. Apart from specifying the host and port of the Oracle DB server, note that the user name and password should correspond to that of the **LDAP user**.