# 一、启用 LDAPS

1. 创建 ApacheDS 服务端使用的 keystore

|  |
| --- |
| ## 创建keystore  > cd /var/lib/apacheds-2.0.0-M24/default/conf/  > keytool -genkeypair -alias apacheds -keyalg RSA -validity 90 -keystore ads.keystore  Enter keystore password:  Re-enter new password:  What is your first and last name?  [Unknown]: hostname  What is the name of your organizational unit?  [Unknown]:  What is the name of your organization?  [Unknown]:  What is the name of your City or Locality?  [Unknown]:  What is the name of your State or Province?  [Unknown]:  What is the two-letter country code for this unit?  [Unknown]:  Is CN=houstname, OU=, O=, L=, ST=, C= correct?  [no]: yes  Enter key password for <apacheds>  (RETURN if same as keystore password):  Re-enter new password:  Warning:  The JKS keystore uses a proprietary format. It is recommended to migrate to PKCS12 which is an industry standard format using "keytool -importkeystore -srckeystore ads.keystore -destkeystore ads.keystore -deststoretype pkcs12". |

1. 修改文件权限

|  |
| --- |
| > sudo chown apacheds:apacheds ./ads.keystore |

1. 导出证书

|  |
| --- |
| > keytool -export -alias apacheds -keystore ads.keystore -rfc -file ads.cer  Enter keystore password:  Certificate stored in file <apacheds.cer> |

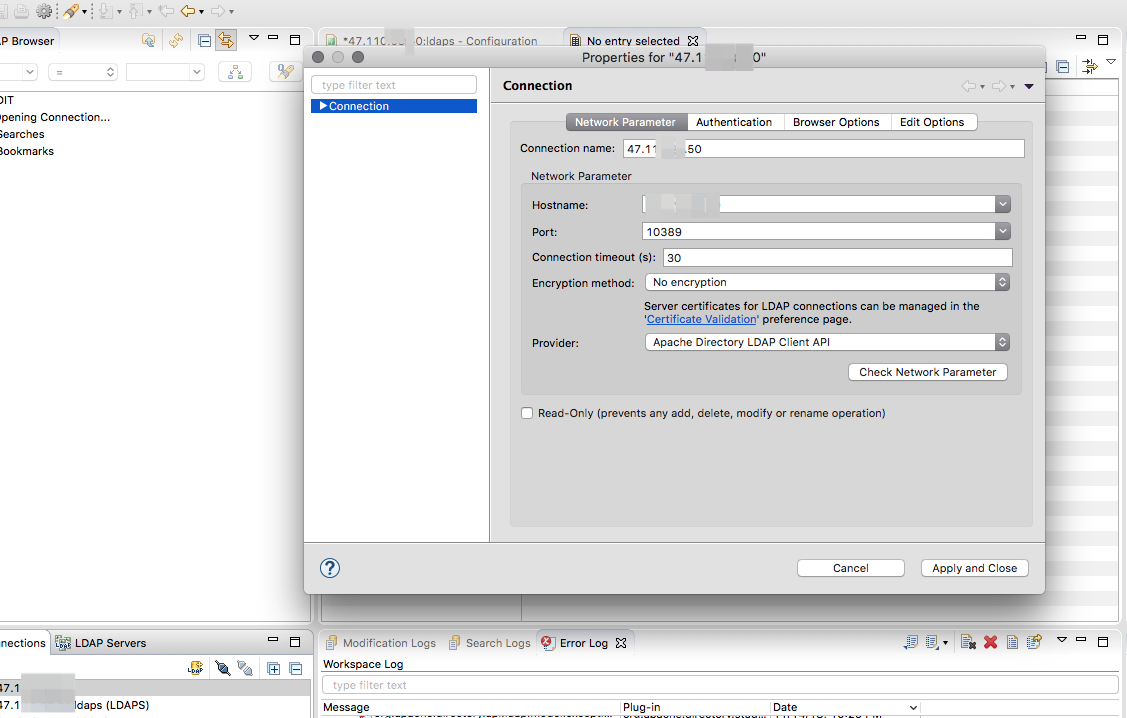
1. 将证书导入系统证书库，实现自认证

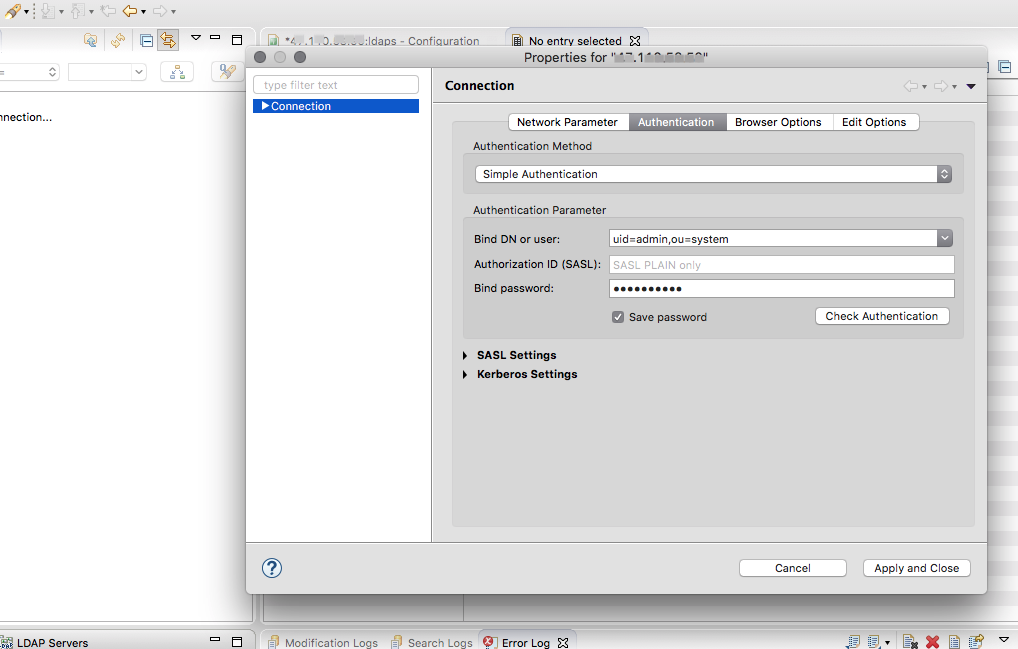
|  |
| --- |
| > keytool -import -file ads.cer -alias apacheds -keystore /usr/lib/jvm/java-1.8.0/jre/lib/security/cacerts -storepass changeit |

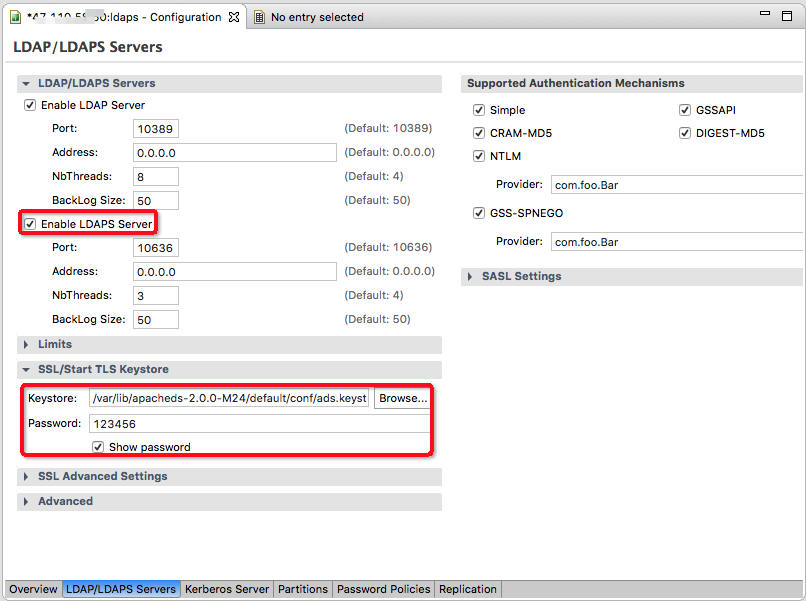
1. 修改配置，启用 LDAPS

5.1 打开 ApacheDS Studio，链接到集群上到 ApacheDS 服务：

5.2Authentication设置

DN：uid=admin,ou=system，密码：secret  
[](http://static-aliyun-doc.oss-cn-hangzhou.aliyuncs.com/assets/img/133788/155963129439736_zh-CN.png)

[](http://static-aliyun-doc.oss-cn-hangzhou.aliyuncs.com/assets/img/133788/155963129439737_zh-CN.png)

1. 打开配置页，启用 LDAPS，将第一步创建的 keystore 设置到相关配置中，保存（ctrl + s）。  
   [](http://static-aliyun-doc.oss-cn-hangzhou.aliyuncs.com/assets/img/133788/155963129439739_zh-CN.png)
2. 重启 ApacheDS 服务

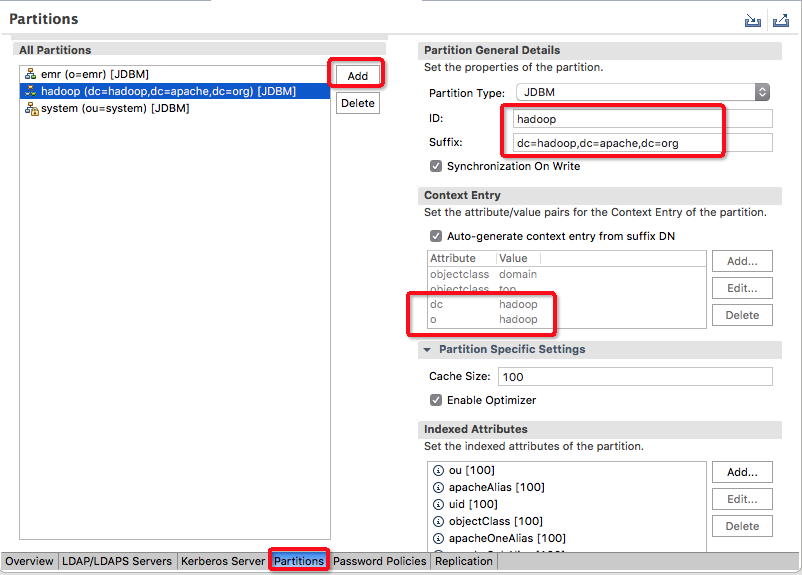
登入集群，执行如下命令重启 ApacheDS：

|  |
| --- |
| > service apacheds-2.0.0-M24-default restart |

到此，LDAPS 启动， 服务端口是 10636

# 二、创建用户信息

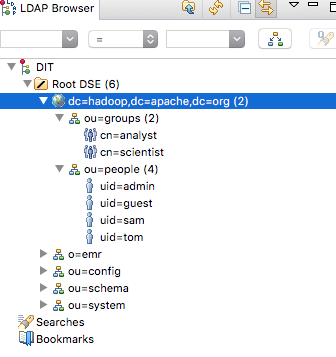
## 1.创建分区

创建 dc=hadoop,dc=apache,dc=org 分区打开配置页，作如下配置，保存（ctrl+s）。重启 ApacheDS 服务生效。  
[](http://static-aliyun-doc.oss-cn-hangzhou.aliyuncs.com/assets/img/133788/155963129439740_zh-CN.png)

## 2.创建用户

2.1创建如下文件：users.ldif

|  |
| --- |
| # Entry for a sample people container  # Please replace with site specific values  dn: ou=people,dc=hadoop,dc=apache,dc=org  objectclass:top  objectclass:organizationalUnit  ou: people  # Entry for a sample end user  # Please replace with site specific values  # dn: uid=guest,ou=people,dc=hadoop,dc=apache,dc=org  # objectclass:top  # objectclass:person  # objectclass:organizationalPerson  # objectclass:inetOrgPerson  # cn: Guest  # sn: User  # uid: guest  # userPassword:guest-password  # entry for sample user admin  dn: uid=admin,ou=people,dc=hadoop,dc=apache,dc=org  objectclass:top  objectclass:person  objectclass:organizationalPerson  objectclass:inetOrgPerson  cn: Admin  sn: Admin  uid: admin  userPassword:123456  # entry for sample user presto  dn: uid=presto,ou=people,dc=hadoop,dc=apache,dc=org  objectclass:top  objectclass:person  objectclass:organizationalPerson  objectclass:inetOrgPerson  cn: Presto  sn: Presto  uid: presto  userPassword:123456  # create FIRST Level groups branch  dn: ou=groups,dc=hadoop,dc=apache,dc=org  objectclass:top  objectclass:organizationalUnit  ou: groups  description: generic groups branch  # create the analyst group under groups  dn: cn=analyst,ou=groups,dc=hadoop,dc=apache,dc=org  objectclass:top  objectclass: groupofnames  cn: analyst  description:analyst group  member: uid=sam,ou=people,dc=hadoop,dc=apache,dc=org  member: uid=tom,ou=people,dc=hadoop,dc=apache,dc=org  # create the scientist group under groups  dn: cn=scientist,ou=groups,dc=hadoop,dc=apache,dc=org  objectclass:top  objectclass: groupofnames  cn: scientist  description: scientist group  member: uid=sam,ou=people,dc=hadoop,dc=apache,dc=or |

2.2使用ApacheDS Studio导入上述文件，可以在 ApacheDS Studio 上看到相关到用户：  
[](http://static-aliyun-doc.oss-cn-hangzhou.aliyuncs.com/assets/img/133788/155963129439753_zh-CN.png)

# 三、配置 Presto

## 开启 Coordinator Https

1. 创建 Presto coordinator 使用的 keystore

|  |
| --- |
| keytool -genkeypair -alias presto -keyalg RSA -validity 90 -keystore presto.keystore |

1. 编辑config.properties，加入如下内容：

|  |
| --- |
| http-server.authentication.type=PASSWORD  http-server.https.enabled=true  http-server.https.port=8443  http-server.https.keystore.path=~/presto-conf/keystore  http-server.https.keystore.key=123456 |

1. 编辑 jvm.config， 加入如下内容：

|  |
| --- |
| -Djavax.net.ssl.trustStore=/usr/lib/jvm/java-1.8.0/jre/lib/security/cacerts  -Djavax.net.ssl.trustStorePassword=changeit |

1. 创建 password-authenticator.properties，加入如下内容：

|  |
| --- |
| password-authenticator.name=ldap  ldap.url=ldaps://hostname:10636  ldap.user-bind-pattern=uid=${USER},ou=people,dc=hadoop,dc=apache,dc=org |

1. 创建 jndi.properties， 加入如下内容：

|  |
| --- |
| java.naming.security.principal=uid=admin,ou=system  java.naming.security.credentials=secret  java.naming.security.authentication=simple |

1. 将 jndi.properties 打包到 jar 包中，复制到 presto 库文件目录中：

|  |
| --- |
| > jar -cvf jndi-properties.jar jndi.properties  > cp ./jndi-properties.jar ${PRESTO\_HOME}/lib/ |

1. 重启 Presto，至此完成所有配置

# 四、配置Kylin

1.配置Kylin的keystore

将presto.keystore复制到${KYLIN\_HOME}/tomcat/conf路径下，重命名为.keystore

2.修改kylin.properties文件，添加如下内容：

|  |
| --- |
| #### QUERY PUSH DOWN ###  #  kylin.query.pushdown.runner-class-name=org.apache.kylin.query.adhoc.PushDownRunnerJdbcImpl  #  ##kylin.query.pushdown.update-enabled=false  kylin.query.pushdown.jdbc.url=jdbc:presto://presto-host:8443/hive?SSL=true  kylin.query.pushdown.jdbc.driver=com.facebook.presto.jdbc.PrestoDriver  kylin.query.pushdown.jdbc.username=presto  kylin.query.pushdown.jdbc.password=123456  #  kylin.query.pushdown.jdbc.pool-max-total=150  kylin.query.pushdown.jdbc.pool-max-idle=100  kylin.query.pushdown.jdbc.pool-min-idle=50  #  #### JDBC Data Source  #  kylin.source.jdbc.connection-url=jdbc:presto:// presto-host:8443/hive?SSL=true  kylin.source.jdbc.driver=com.facebook.presto.jdbc.PrestoDriver  kylin.source.jdbc.dialect=presto  kylin.source.jdbc.user=presto  kylin.source.jdbc.pass=123456  #  kylin.source.jdbc.sqoop-home=/opt/module/cdh-5.15.2/cloudera/parcels/CDH/lib/sqoop  kylin.source.jdbc.filed-delimiter=| |

3.重启Kylin生效