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## How to add custom attribute entry for LDAP

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6/26/13 12:52 PM

To add custom attribute entry for LDAP you need to follow below instructions:

- create new LDIF file [ **file -> new -> LDIF file** ] in Apache Directory Studio.
- add following code in it.

```
dn: cn=schema
changetype: modify
add: attributeTypes
attributeTypes: ( 2.25.128424792425578037463837247958458780603.1
    NAME 'dateOfBirth'
    EQUALITY caseIgnoreMatch
    SUBSTR caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
attributeTypes: ( 2.25.128424792425578037463837247958458780603.2
    NAME 'gender'
    EQUALITY caseIgnoreMatch
    SUBSTR caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{1024} )
-
add: objectClasses
objectClasses: ( 2.25.128424792425578037463837247958458780603.3
    NAME 'samplePerson'
    DESC 'samplePerson'
    SUP inetOrgPerson
    STRUCTURAL
    MAY (dateOfBirth $ gender)
)
```

**Note :** LDIF record must be ended with empty line.

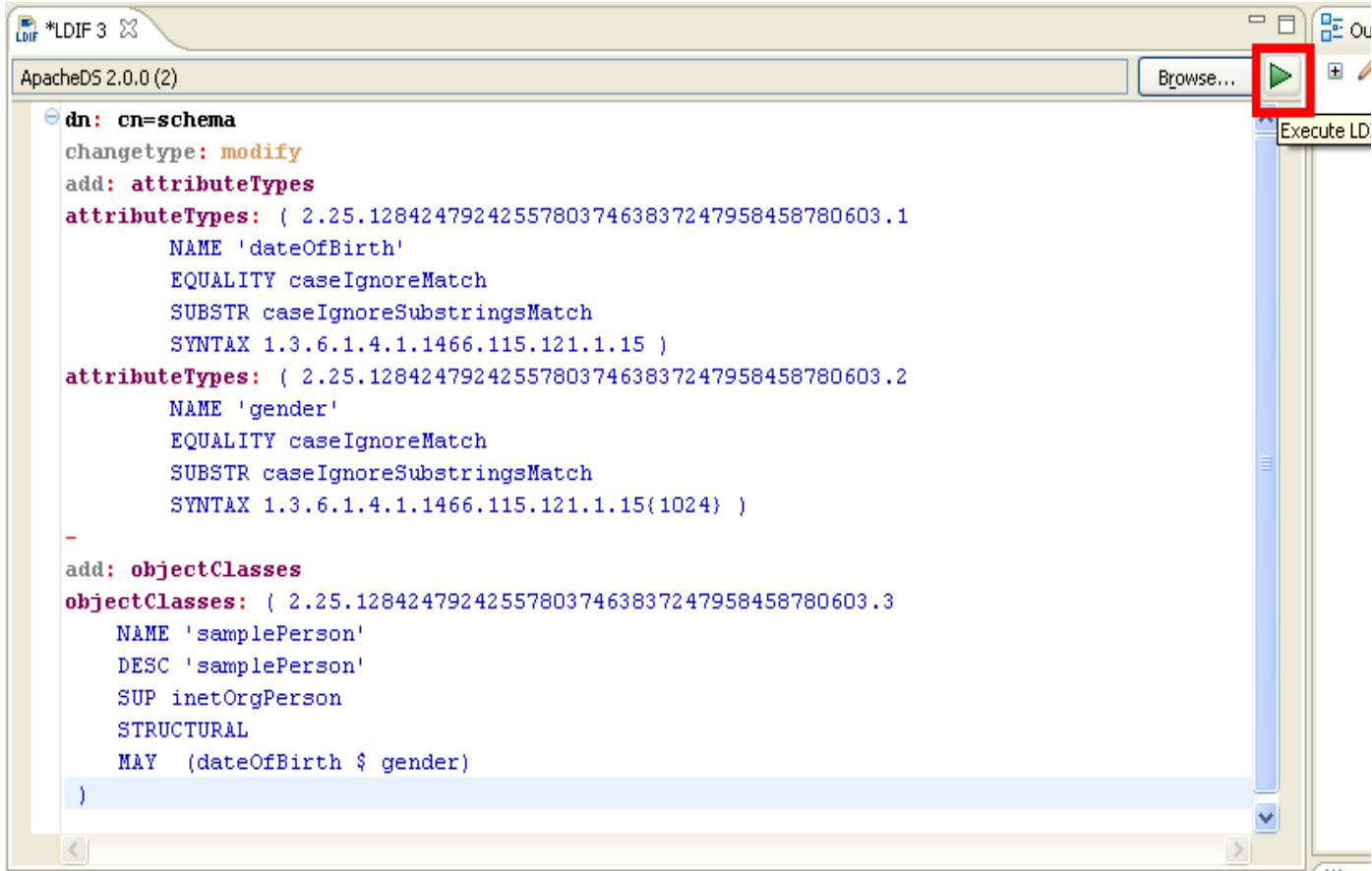
### Description :

- Here, we have created one object class named **samplePerson** & added two custom attributes **dateOfBirth** & **gender**.
- Each attribute and object class have unique **OID** (for e.g. 2.25.1284...) to avoid any conflict with other attributes within LDAP instance. You can use the above OID for experimental purpose or just google on 'how to obtain a ID'.
- **SUP inetOrgPerson** : specifies that **samplePerson** object class inherits **inetOrgPerson**.
- **STRUCTURAL** : specifies that **samplePerson** is type of structural object class & able to add entry in the LDAP.
  - There are three types of object classes in LDAP :
    - **Structural**: Used to create entries -- an entry should have at least one structural object class. (can have more than one as well)
    - **Auxiliary**: Basically used to add additional attributes to an entry created with some other structural object class. An entry can have one or more auxiliary object classes. But an entry can not construct on with auxiliary object classes.

- **Abstract:** These basically sit at the top of the object class hierarchies. An example is: 'top' object class in any LDAP.
- So hierarchy of **samplePerson** object class is like,
 

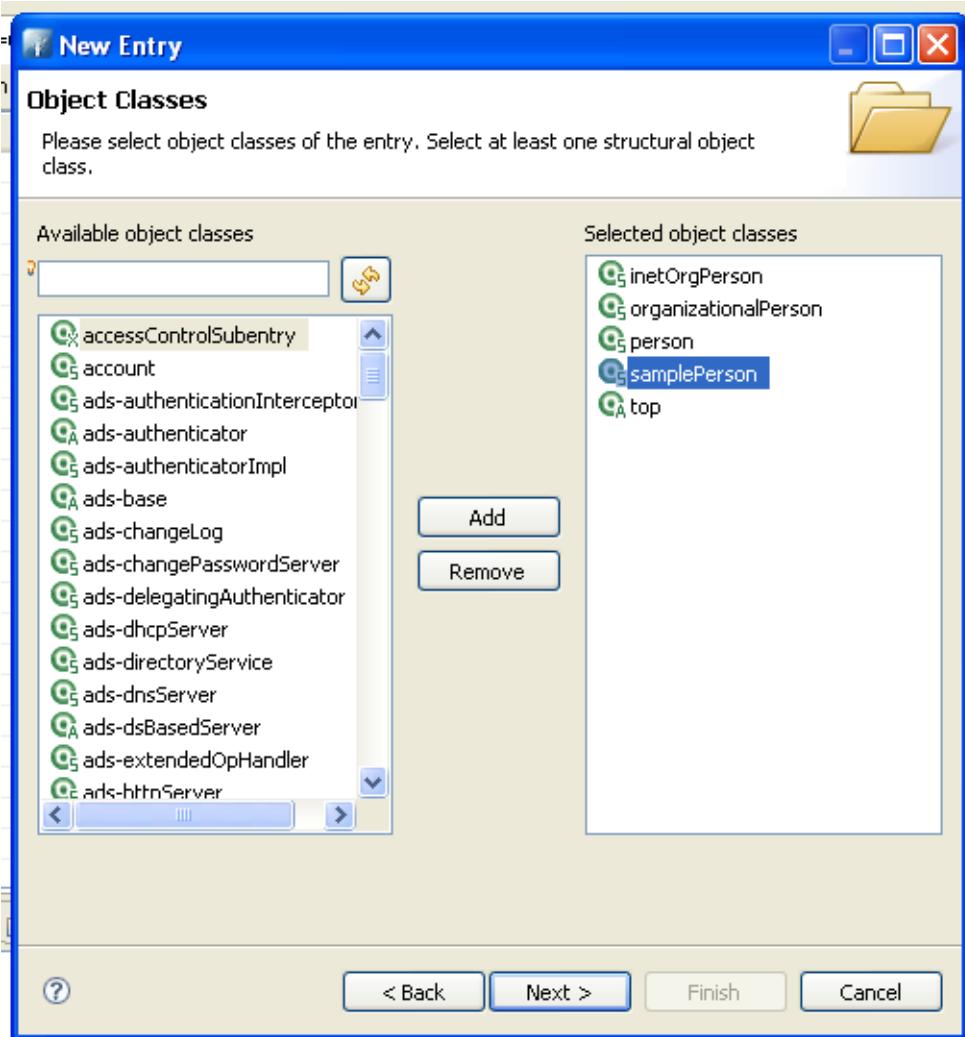
```

      'top'
      |
      +--'_person'
          |
          +--'_organizationalPerson'
              |
              +--'_inetOrgPerson'
                  |
                  +--'_samplePerson'
      
```
- **MAY (dateOfBirth \$ gender) :** **samplePerson** class have two optional attributes. So when user select **samplePerson** as object class then it is not mandatory to use both or either of these attributes in user entry.
- Execute LDIF file to add object class & attributes in current LDAP instance.



- Right click on **Users -> New -> New Entry... -> Create entry from scratch**
- Select "**samplePerson**" from available object Classes & select Next. It will automatically fetch all its parent class user entry.

**Note :** If it is not showing your newly created class then just click on **Refresh** of Available Object Class list.



- Complete adding the user entry as you usually do.
- Try to add attributes to the created user entry. In the attribute search list, now you will be able to see the newly introduced custom attributes.

**New Attribute**

**Attribute Type**  
Please enter or select the attribute type.

Attribute type:

- gender
- generationQualifier

Preview:

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**New Entry**

**Attributes**  
Please enter the attributes for the entry. Enter at least the MUST attributes.

DN: cn=sachin,ou=users,ou=system

Attribute Description	Value
<b>objectClass</b>	<i>inetOrgPerson (structural)</i>
<b>objectClass</b>	<i>organizationalPerson (structural)</i>
<b>objectClass</b>	<i>person (structural)</i>
<b>objectClass</b>	<i>samplePerson (structural)</i>
<b>objectClass</b>	<i>top (abstract)</i>
<b>cn</b>	sachin
<b>sn</b>	tendulkar
<b>gender</b>	male

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