



What Red Hat is doing to address coronavirus (COVID-19): read the blog post (https://www.redhat.com/en/blog/what-red-hat-doing-address-coronaviruscovid-19)



OpenIdap: When adding sudo rules is giving error "Idap_add: Invalid syntax (21) additional info: objectClass: value #1 invalid per syntax"

⊘ SOLUTION VERIFIED - Updated December 16 2015 at 11:17 AM - English **▼** ()

Environment

- Red Hat Enterprise Linux 6
- Red Hat Enterprise Linux 7
- OpenIdap

Issue

Adding sudo rule in Idap is giving following error.

Resolution

- 1. Login into OpenIdap server as root.
- 2. Create the file "sudo.schema" in /tmp directory of OpenIdap server with following information

```
dn: (https://access.redhat.com/)
objectcrass: olcSchemaConfig
cn: sudo
olcAttributeTypes: ( 1.3.6.1.4.1.15953.9.1.1 NAME 'sudoUser' DESC 'User(s) who may run
sudo' EQUALITY caseExactIA5Match SUBSTR caseExactIA5SubstringsMatch SYNTAX
1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 1.3.6.1.4.1.15953.9.1.2 NAME 'sudoHost' DESC 'Host(s) who may run
sudo' EQUALITY caseExactIA5Match SUBSTR caseExactIA5SubstringsMatch SYNTAX
1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 1.3.6.1.4.1.15953.9.1.3 NAME 'sudoCommand' DESC 'Command(s) to be
executed by sudo' EQUALITY caseExactIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 1.3.6.1.4.1.15953.9.1.4 NAME 'sudoRunAs' DESC 'User(s) impersonated
by sudo (deprecated)' EQUALITY caseExactIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 1.3.6.1.4.1.15953.9.1.5 NAME 'sudoOption' DESC 'Options(s) followed by
sudo' EQUALITY caseExactIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 1.3.6.1.4.1.15953.9.1.6 NAME 'sudoRunAsUser' DESC 'User(s)
impersonated by sudo' EQUALITY caseExactIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 1.3.6.1.4.1.15953.9.1.7 NAME 'sudoRunAsGroup' DESC 'Group(s)
impersonated by sudo' EQUALITY caseExactIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 1.3.6.1.4.1.15953.9.1.8 NAME 'sudoNotBefore' DESC 'Start of time
interval for which the entry is valid' EQUALITY generalizedTimeMatch ORDERING
generalizedTimeOrderingMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.24 )
olcAttributeTypes: ( 1.3.6.1.4.1.15953.9.1.9 NAME 'sudoNotAfter' DESC 'End of time interval
for which the entry is valid' EQUALITY generalizedTimeMatch ORDERING
generalizedTimeOrderingMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.24 )
olcAttributeTypes: ( 1.3.6.1.4.1.15953.9.1.10 NAME 'sudoOrder' DESC 'an integer to order
the sudoRole entries' EQUALITY integerMatch ORDERING integerOrderingMatch SYNTAX
1.3.6.1.4.1.1466.115.121.1.27 )
olcObjectClasses: ( 1.3.6.1.4.1.15953.9.2.1 NAME 'sudoRole' SUP top STRUCTURAL DESC
'Sudoer Entries' MUST ( cn ) MAY ( sudoUser $ sudoHost $ sudoCommand $ sudoRunAs $
sudoRunAsUser $ sudoRunAsGroup $ sudoOption $ sudoOrder $ sudoNotBefore $ sudoNotAfter $
description ) )
```

3. Add the sudo schema to the Idap config.

```
# ldapadd -Q -Y EXTERNAL -H ldapi:/// -f /tmp/sudo.schema
```

4. Try adding the record again.

```
# ldapadd -x -h '127.0.0.1' -D 'cn=Manager,dc=example,dc=com' -W -f /tmp/sudo-rule.ldif
```

If OpenIdap server is using slapd.conf as configuration file then follow steps should be following

- 1. Login into OpenIdap server as root.
- 2. Copy the sudo schema file provided by sudo package as below.

```
cp /usr/share/doc/sudo-*/schema.OpenLDAP /etc/openldap/schema/sudo.schema
```

3. Edit file /etc/open1dap/slapehtops://adddssrbalow.eomy)

include /etc/openldap/schema/sudo.schema

4. Restart OpenIdap service.

service slapd restart

5. Try adding the record again.

ldapadd -x -h '127.0.0.1' -D 'cn=Manager,dc=example,dc=com' -W -f /tmp/sudo-rule.ldif

Root Cause

• The error was observe since sudo schema was not added in OpenIdap server.

Product(s) Red Hat Enterprise Linux (/taxonomy/products/red-hat-enterprise-linux)

Component openIdap (/components/openIdap) sudo (/components/sudo)

Category Troubleshoot (/category/troubleshoot)

Tags configuration (/tags/configuration) Idap (/tags/Idap) rhel_6 (/tags/rhel_6) rhel_7 (/taxonomy/tags/rhel7)

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