# ZEPPELIN w/ LDAP

우아한형제들 데이터서비스팀

한동훈

#### 왜 LDAP 인가?

- 사내 AD 계정과 연동 가능.
- Shiro.ini 고치기 귀찮아...
- Google business 계정과 연동하여 LDAP 구성 가능
  - https://support.google.com/a/answer/106368?hl=en
- 그룹 관리의 용이성.
- Kerberos 와 LDAP 은 찰떡 궁합
  - HDFS / HIVE 등의 Kerberos 인증에 LDAP 을 연동시킬 수 있다.



### Ubuntu + OpenLDAP + phpLdapAdmin

#### OpenLDAP

- https://help.ubuntu.com/lts/serverguide/openIdap-server.html
- sudo apt-get install slapd Idap-utils
- o sudo dpkg-reconfigure -plow slapd
  - Reconfigures Domain name, Organization Name, admin passwords.
  - example.com for this example.

#### phpLdapAdmin

- sudo apt-get install phpldapadmin
- Edit /etc/apache2/conf-available/phpldapadmin.conf for domain name other than example.com

#### phpldapadmin 으로 그룹 및 계정 추가

- Add Organization Units
  - o people
  - o groups
  - o system
- Add groups to ou=groups,dc=example,dc=com
  - Create a child entry (myteam, otherteam)
  - Generic: Posix Group
- Add people to ou=people,dc=example,dc=com
  - Create a child entry (nazgul33, mytest1, test)
  - o Generic: User Account
- Add system account for zeppelin in ou=system,dc=example,dc.com
  - Create a child entry (zeppelin)
  - o Generic: User Account



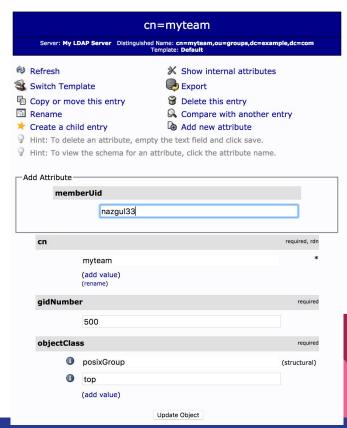
### phpldapadmin 으로 그룹 및 계정 추가





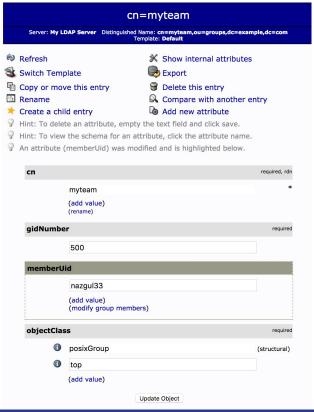
#### phpLdapAdmin : 그룹에 유저 추가

- click group name in left pane.
- click "Add new attribute" in right pane
- choose "memberUid"
- add a uid
- click "Update Object"

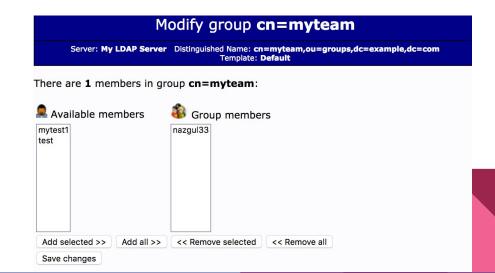




#### phpLdapAdmin : 그룹에 유저 추가



- next addition is easier.
- try "modify group members"





## ZEPPELIN 설정 0.6.1: zeppelin/conf/shiro.ini

#### [main]

IdapRealm = org.apache.zeppelin.server.LdapGroupRealm
IdapRealm.contextFactory.environment[Idap.searchBase] = ou=people,dc=example,dc=com
IdapRealm.contextFactory.url = Idap://localhost:389
IdapRealm.userDnTemplate = cn={0},ou=people,dc=example,dc=com
IdapRealm.contextFactory.authenticationMechanism = SIMPLE
securityManager.realms = \$IdapRealm

No support for LDAP groups



# ZEPPELIN 설정: 0.7.0: zeppelin/conf/shiro.ini

[main]

IdapADGCRealm = org.apache.zeppelin.realm.LdapRealm

IdapADGCRealm.contextFactory.systemUsername = cn=zeppelin,ou=system,dc=example,DC=com

IdapADGCRealm.contextFactory.systemPassword = XXXXXXXX

IdapADGCRealm.userDnTemplate=cn={0},ou=people,dc=example,dc=com

IdapADGCRealm.searchBase = dc=example,dc=com

IdapADGCRealm.userSearchBase = ou=people,dc=example,dc=com

ldapADGCRealm.groupSearchBase = ou=groups,dc=example,dc=com

ldapADGCRealm.contextFactory.url = ldap://localhost:389

ldapADGCRealm.contextFactory.authenticationMechanism = simple

IdapADGCRealm.userObjectClass = posixAccount

ldapADGCRealm.groupObjectClass = posixGroup

IdapADGCRealm.authorizationEnabled = true

IdapADGCRealm.memberAttribute = memberUid

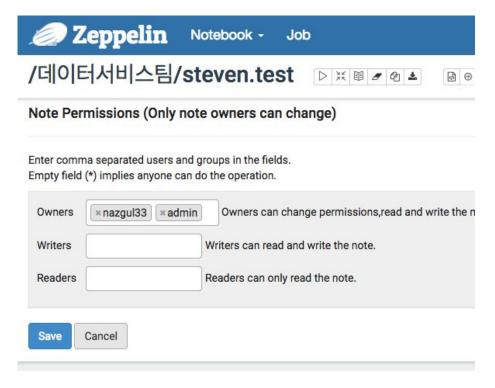
IdapADGCRealm.memberAttributeValueTemplate=cn={0},ou=people,dc=example,dc=com

IdapADGCRealm.rolesByGroup = myteam:admin,otherteam:user <- mapping between LDAP GROUP / SHIRO ROLE

securityManager.realms = \$ldapADGCRealm



### ZEPPELIN notebook permission



- admin is the shido role mapped to LDAP group.
- type 3 letters to let Zeppelin show role names starting with those.
- Add roles to Writers or Readers and see what happens.