网络对抗原理

大作业

实验二

学　　院　　网络与信息安全学院

专　　业　　信息安全

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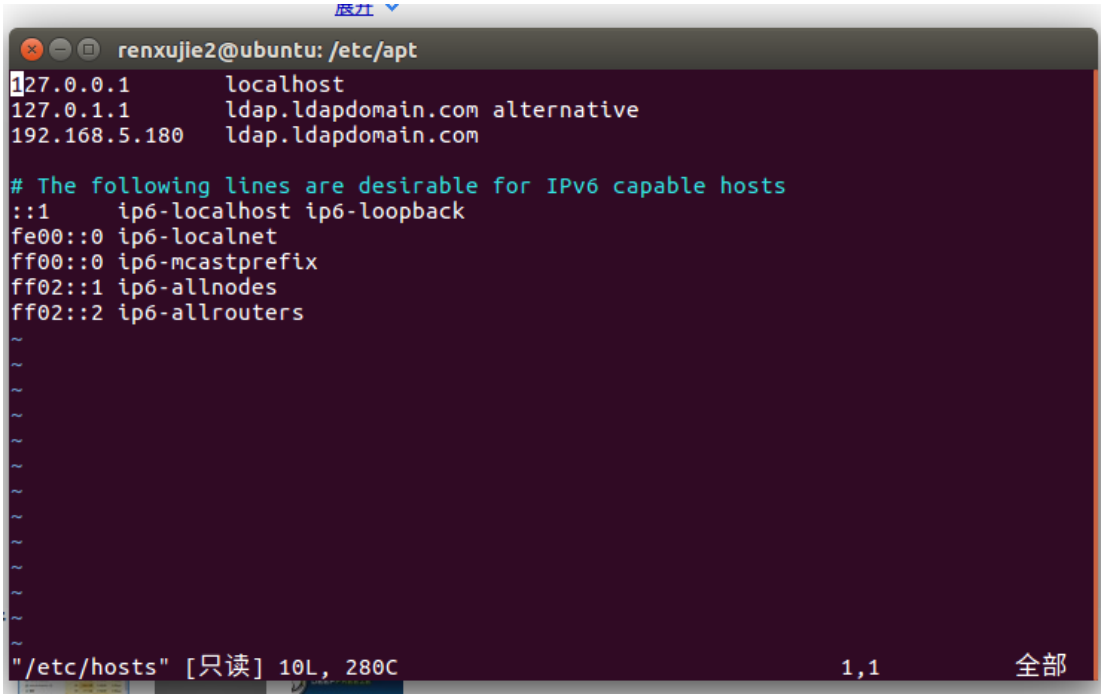
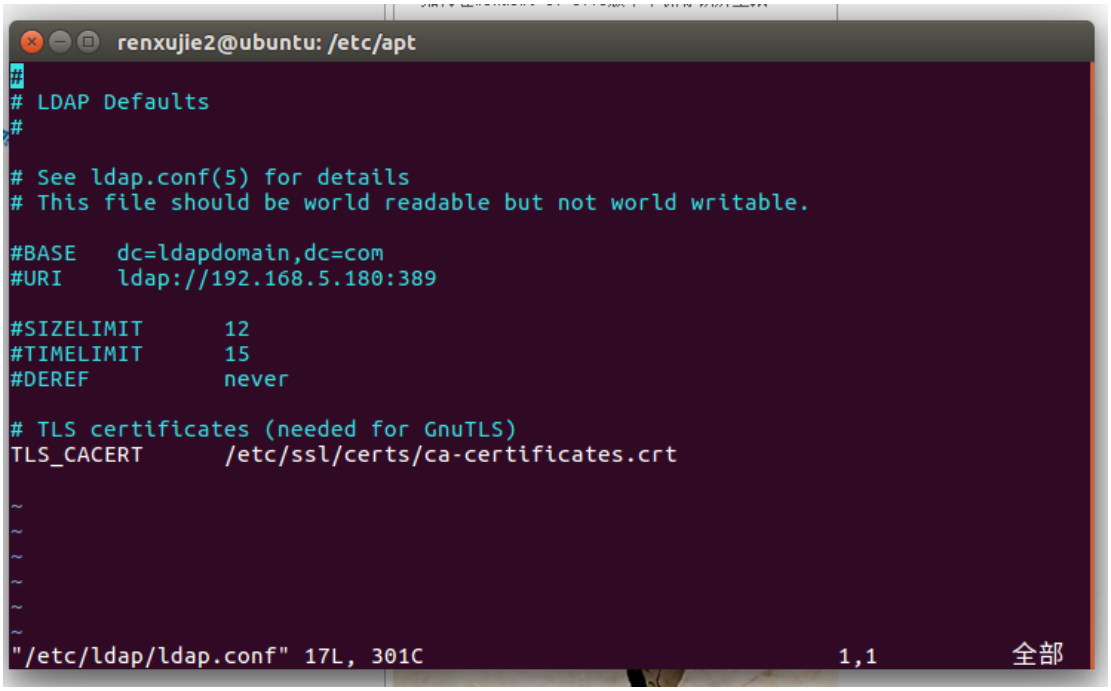
1. 安装并配置 openldap

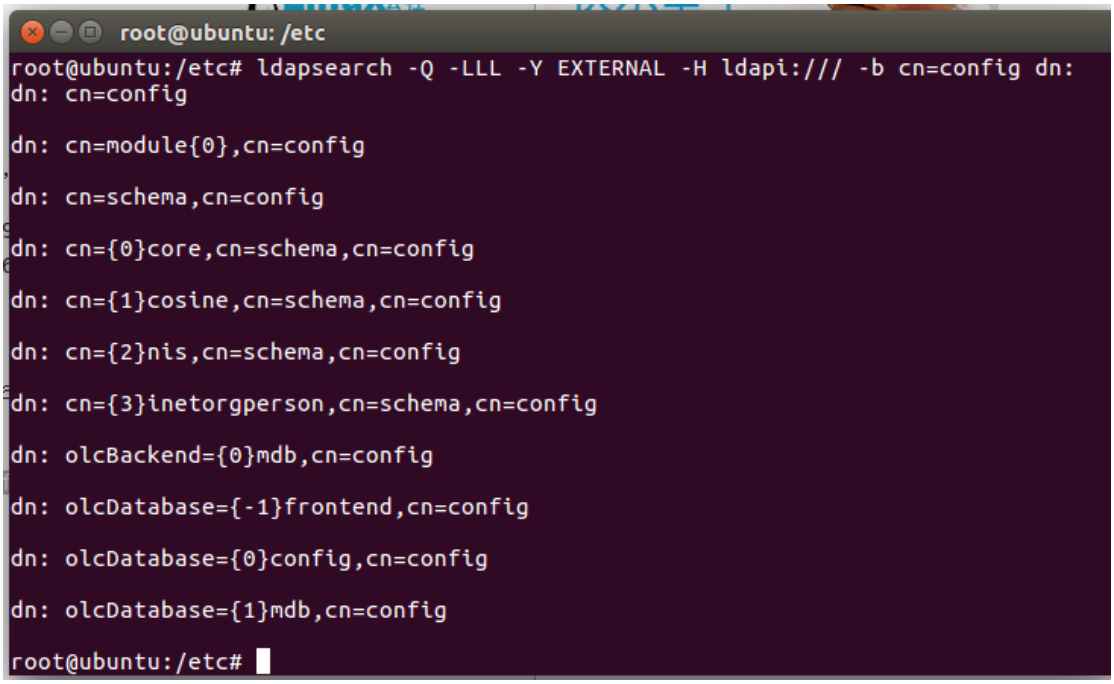
修改/etc/hosts



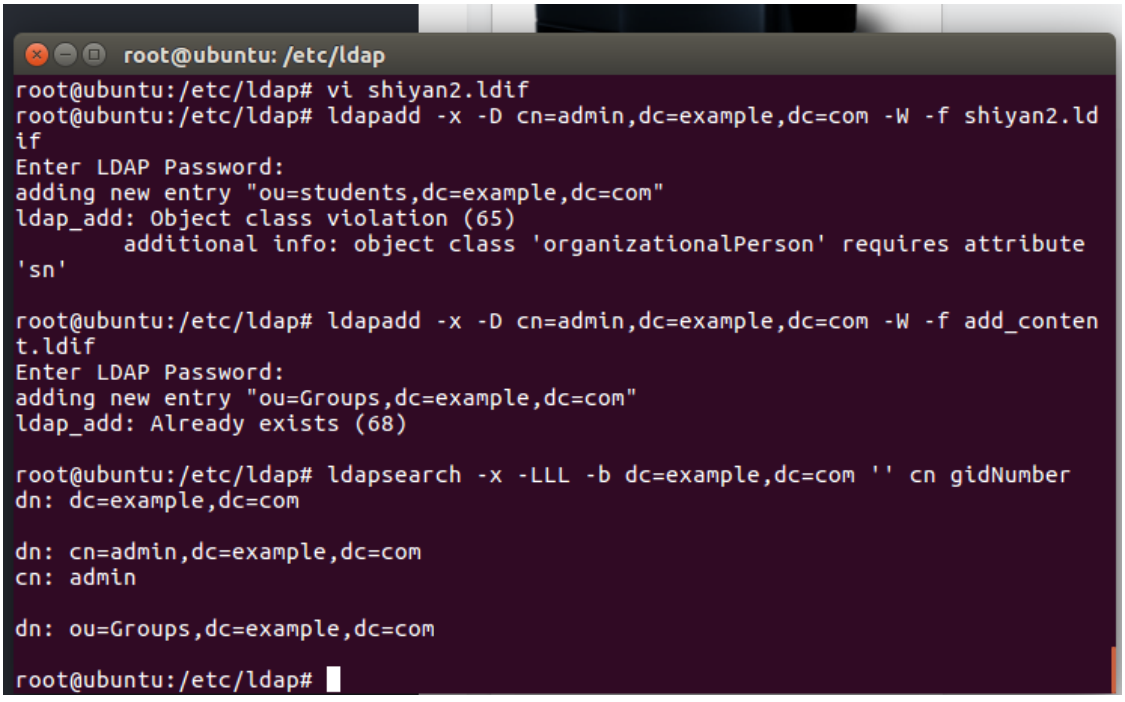
使用 apt-get 下载安装 ldap 并修改配置文件



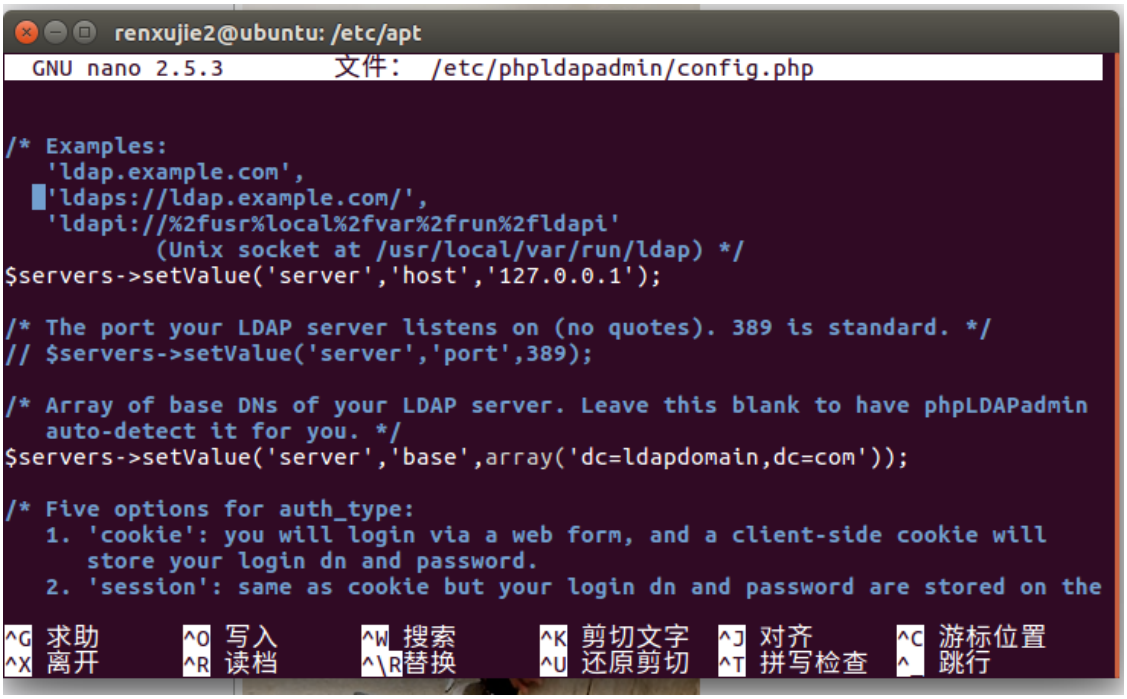
配置完成。使用 ldapsearch 测试



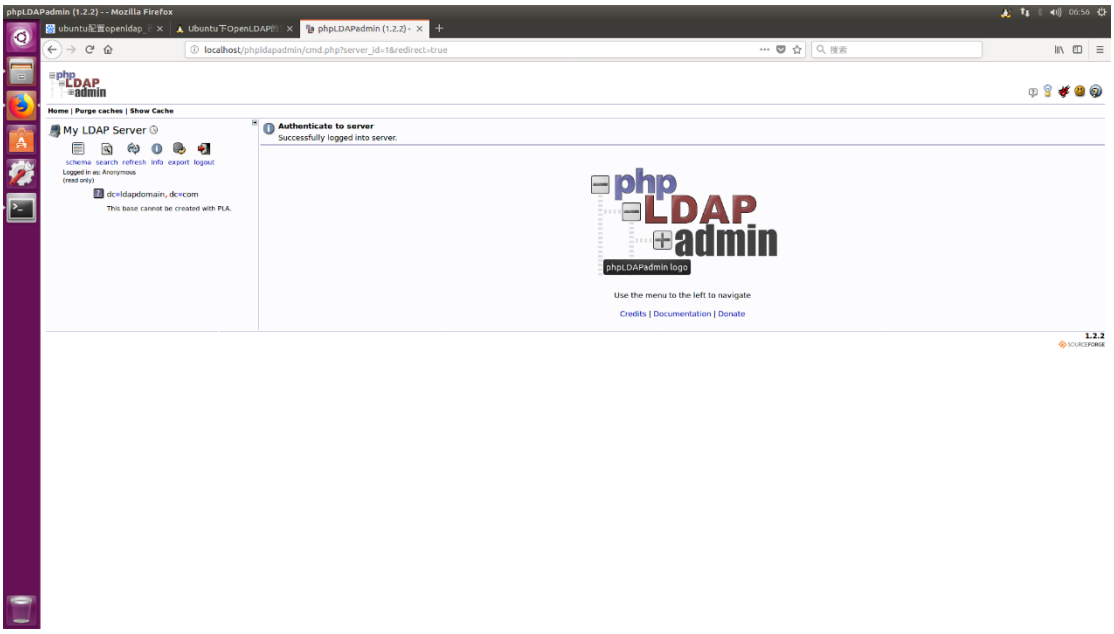
向 ldap 中插入数据



下载安装 phpldapadmin，并修改配置文件

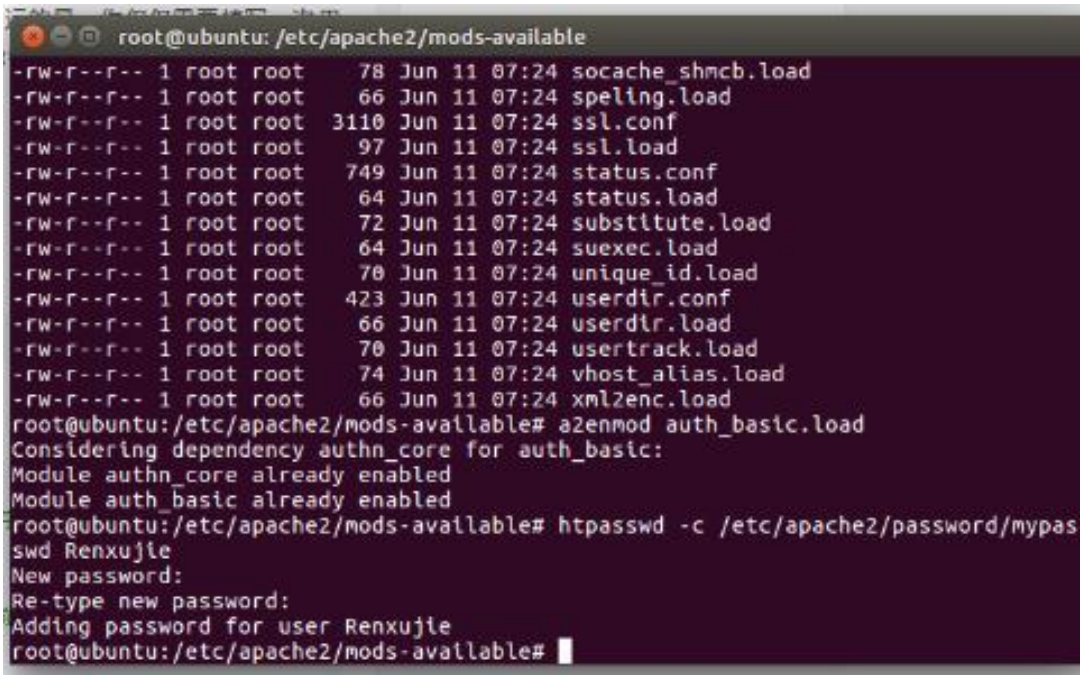


成功登陆 phpldapadmin

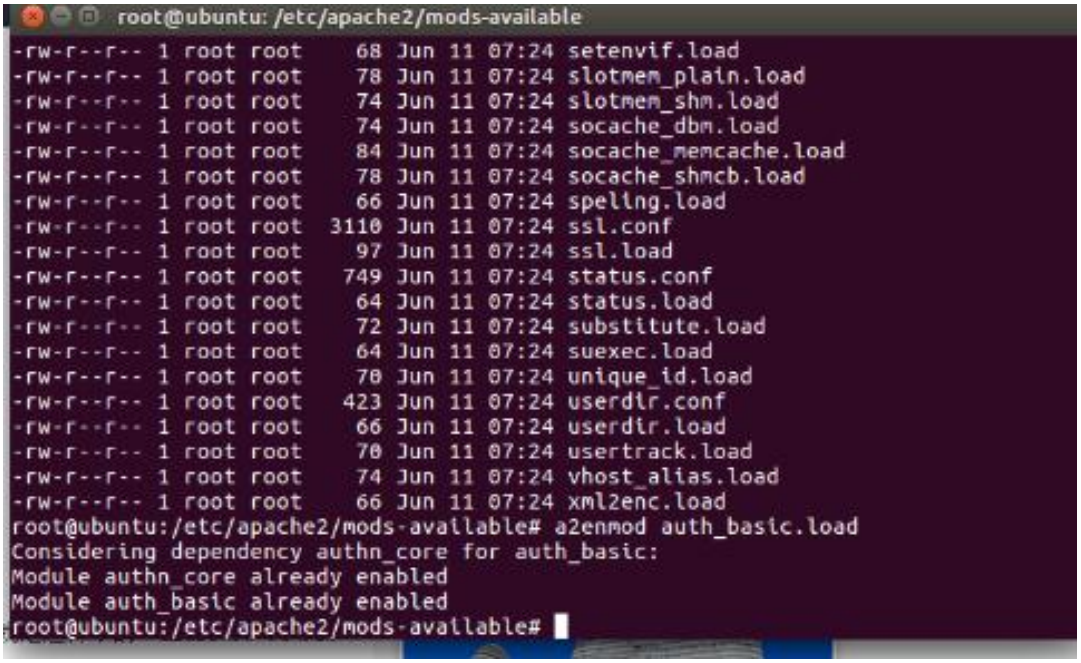


2. 配置 Apache 服务器及 Basic 认证模块

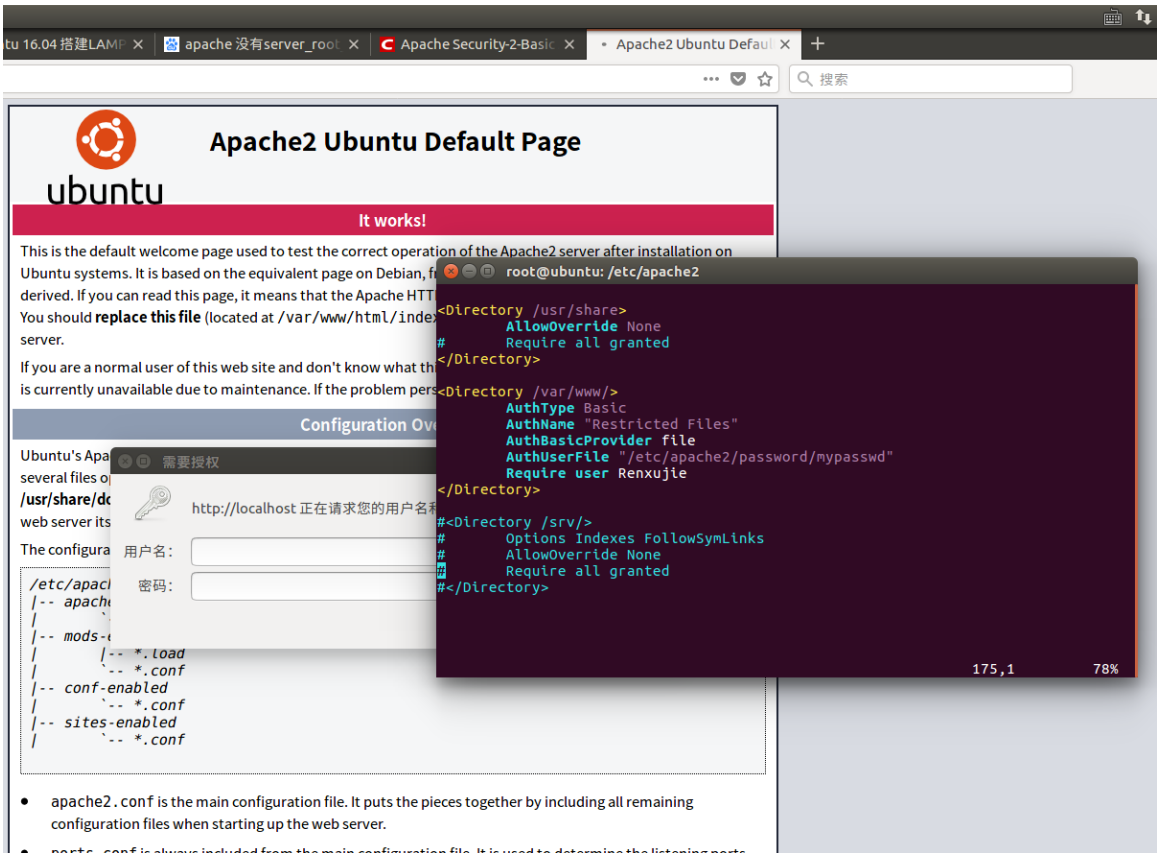
配置完 Apache 服务器后，新建密码文件



开启 Basic 模块

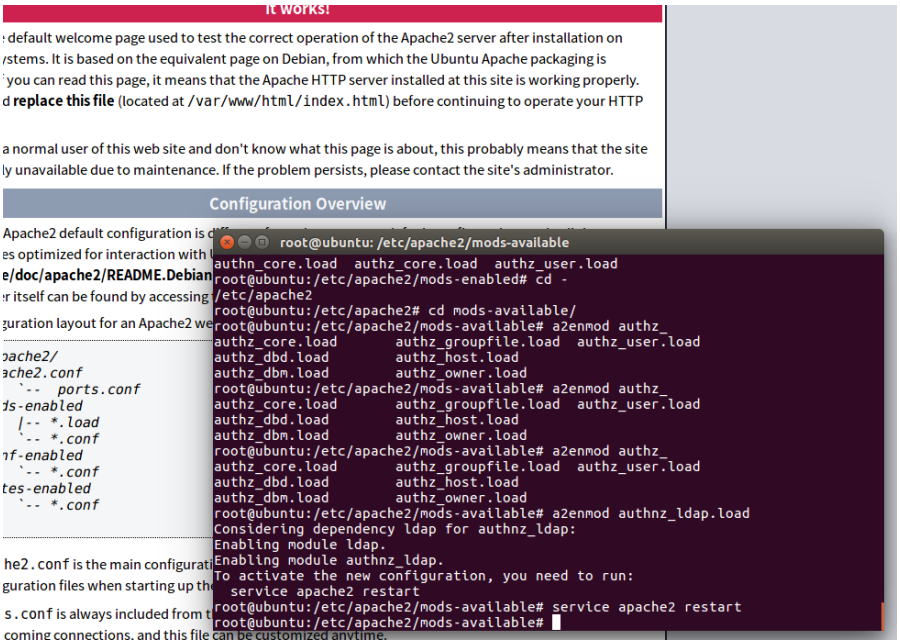


修改 Apache2.conf 配置文件并导入密码文件，重启 Apache 服务，需要进行认证才能登陆。



3. 配置 ldap 模块

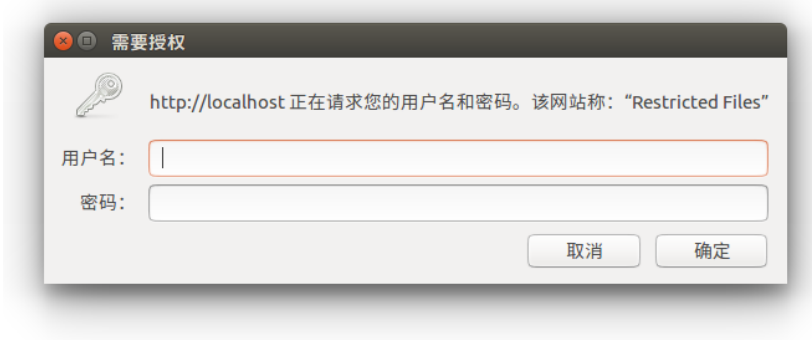
启动 ldap 模块



启动 ldap 模块后，修改 Apache2.conf

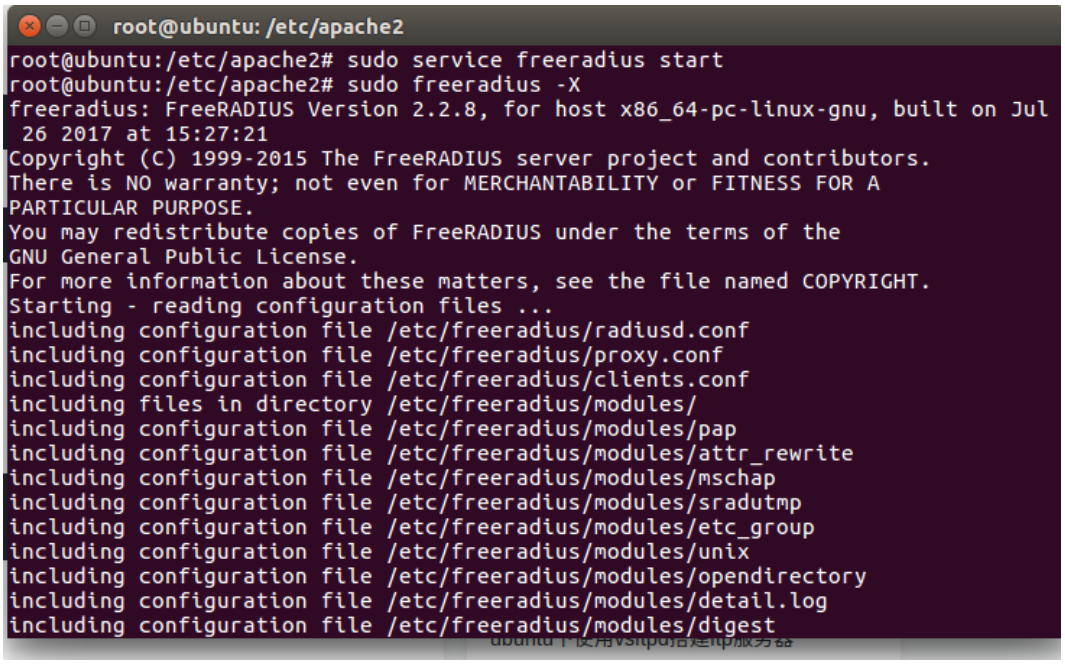
```
AllowOverride AuthConfig
AuthName "ldap auth test"
AuthType basic
AuthBasicProvider ldap
AuthLDAPUrl "ldap://ldap.test.com/ou=People,dc=test,dc=com"
Require valid-user
```

需要认证

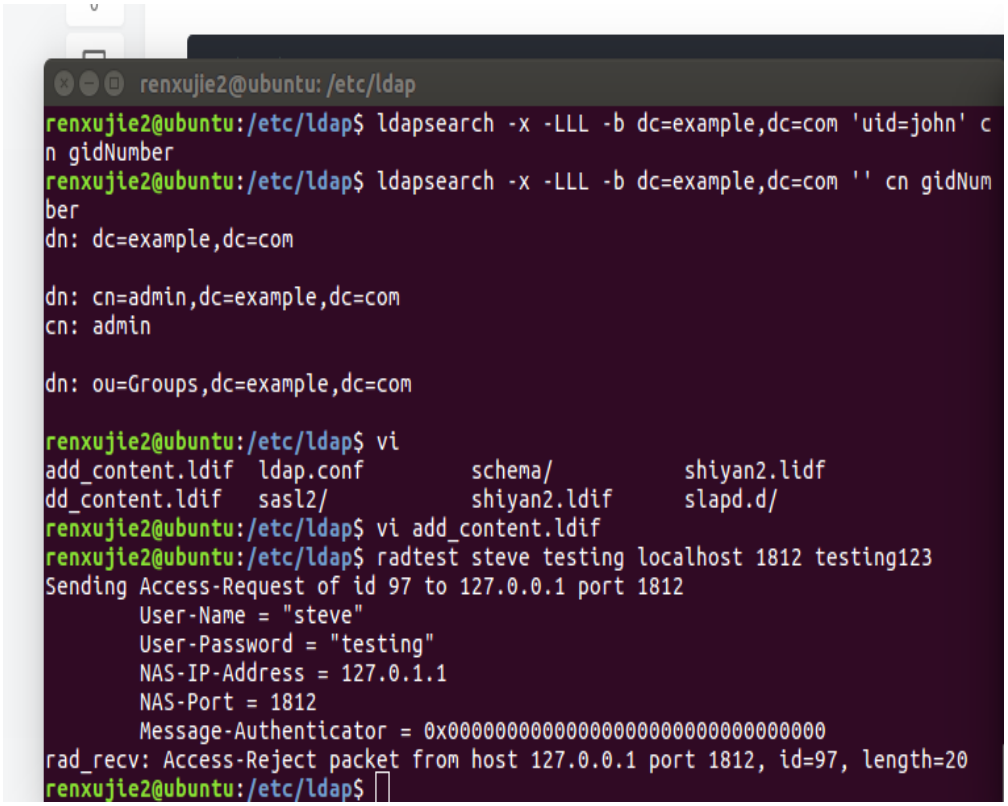


4. 搭建 RADIUS 服务器

安装 freeradius 后，使用命令 freeradius -X 检测安装是否成功



成功使用 radtest 验证



5. 在之前 Apache 的 RADIUS 认证模块的配置下,不改变配置,切换到使用 LDAP 存放的学生用户名密码认证

修改/etc/raddb/mods-avaliable/ldap

```
server = 'localhost'
server = 'ldap.rrdns.example.org'
server = 'ldap.rrdns.example.org'

#  Port to connect on, defaults to 389, will be ignored for LDAP URIs.
port = 389

#  Administrator account for searching and possibly modifying.
#  If using SASL + KRB5 these should be commented out.
identity = 'cn=admin,dc=example,dc=org'
password = mypass

#  Unless overridden in another section, the dn from which all
#  searches will start from.
base_dn = 'dc=example,dc=org'
```

进入/etc/raddb/sites-avaliable，修改 default

```
526     Auth-Type LDAP {
527         ldap
528     }
```

修改同一目录下的 ldap 文件

```
server site_ldap {
    listen {
        ipaddr = *
        port = 1833
        type = auth
    }
    authorize {

#         update {
#             control:Auth-Type := ldap
#         }
        update control {
            &Auth-Type := LDAP
        }
    }
    authenticate {
        Auth-Type LDAP {
            ldap
        }
    }

    post-auth {
        Post-Auth-Type Reject {
        }
    }
}
```

使用 radtest 测试如下：

```
Sent Access-Request Id 165 from 0.0.0.0:42134 to 127.0.0.1:1833 length 80
        User-Name = "test"
        User-Password = "bin"
        NAS-IP-Address = 192.168.43.116
        NAS-Port = 0
        Message-Authenticator = 0x00
        Framed-Protocol = PPP
        Cleartext-Password = "bin"
```

成功。