pache2 Kerberos FreeIPA

- web-
  - - web- Apache2 (1)
  - - FreeIPA
  - - web- Apache2 (2)

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web-

- web- Apache2 (1)

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1. :
   - astra-freeipa-client — ;
   - apache2 — pache2;
   - libapache2-mod-auth-kerb — Kerberos apache2.
   :

```
sudo apt update
sudo apt install astra-freeipa-client apache2 libapache2-mod-auth-kerb
```

2. (client):

```
sudo hostnamectl set-hostname client
```

3. .

- FreeIPA

Kerberos (- admin).

1. Kerberos . :

```
kinit admin
```

2. HTTP:

```
ipa service-add HTTP/client.astra.domain@ASTRA.DOMAIN
```

3. FreeIPA (keytab):

```
/usr/sbin/ipa-getkeytab -p HTTP/client.astra.domain@ASTRA.DOMAIN -k ~
/http.keytab
```

.

4. http.keytab web- /etc/apache2/.

- web- Apache2 (2)

, /etc/apache2/http.keytab.

1. :

```
sudo chown www-data:www-data /etc/apache2/http.keytab
sudo chmod 600 /etc/apache2/http.keytab
```

2. virtualhost **/etc/apache2/sites-available/000-default.conf** :

```
<VirtualHost *:80>

        ServerAdmin webmaster@localhost
        DocumentRoot /var/www
        ErrorLog ${APACHE_LOG_DIR}/error.log
        CustomLog ${APACHE_LOG_DIR}/access.log combined

        <Directory /var/www>
                AuthType Kerberos
                #   (realm)  -
                KrbAuthRealms ASTRA.DOMAIN

                #     (    HTTP):
                KrbServiceName HTTP/client.astra.domain@ASTRA.DOMAIN

                #  ,
                Krb5Keytab /etc/apache2/http.keytab
                KrbMethodNegotiate on
                KrbMethodK5Passwd off
                require valid-user
                KrbSaveCredentials on
        </Directory>
</VirtualHost>
```

3. :
   a. - web- :

```
sudo pdpl-file -u 3:0:-1:ccnr /var/www/
sudo pdpl-file -u 3:0:-1:ccnr /var/www/html/
```

   b. web- (apache2):

```
sudo systemctl restart apache2
```

1. - :
   a. .
   b. . , 1.
2. - web-:
   a. **/var/www/html/** 2 , 0.html 1.html "Hello world! 0" "Hello world! 1" .

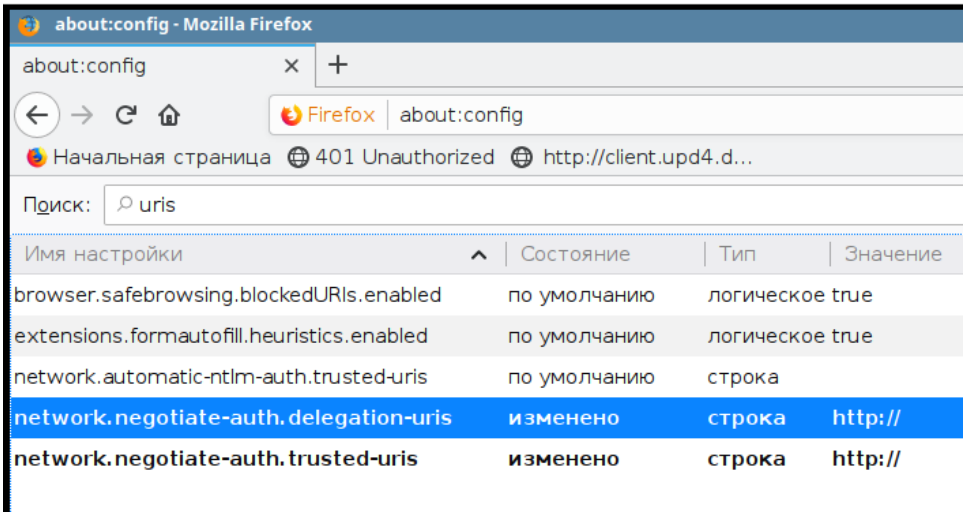
```
echo "Hello world! 0" | sudo tee /var/www/html/0.html
echo "Hello world! 1" | sudo tee /var/www/html/1.html
```

   b. **1.html**:

```
sudo pdpl-file 1:0:0 /var/www/html/1.html
```

3. , :

a. web- negotiate, about:config **http://** network.negotiate-auth.delegation-uris network.negotiate-auth.trusted-uris:

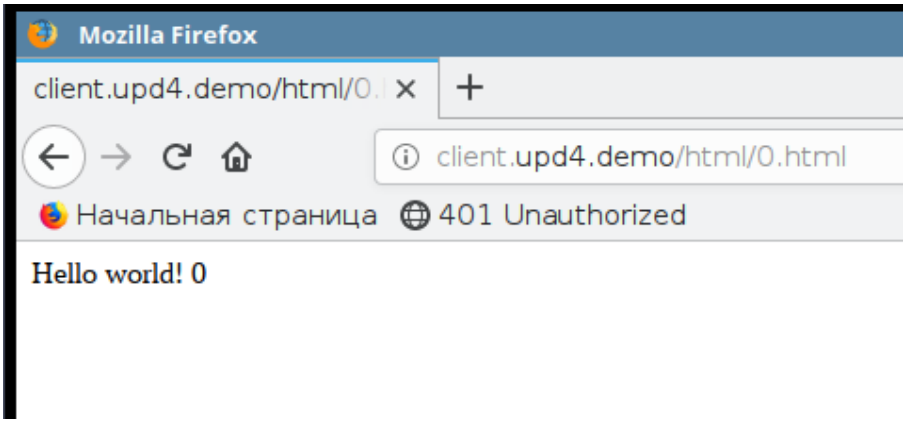


b. .

c. http://client.astra.domain/html/1.html. :

, (404), 403 ( ). , .

d. http://client.astra.domain/html/0.html. :


Mozilla Firefox
client.upd4.demo/html/0.
client.upd4.demo/html/0.html
Начальная страница
401 Unauthorized
Hello world! 0

e. . .