

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" .`

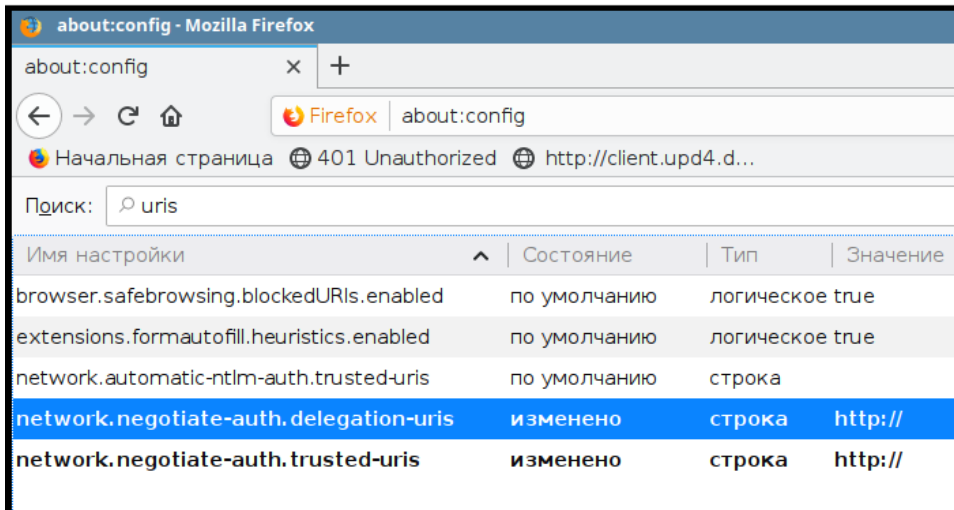
```
echo "Hello world! 0" | sudo tee /var/www/html/0.html
echo "Hello world! 1" | sudo tee /var/www/html/1.html
```

- 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:



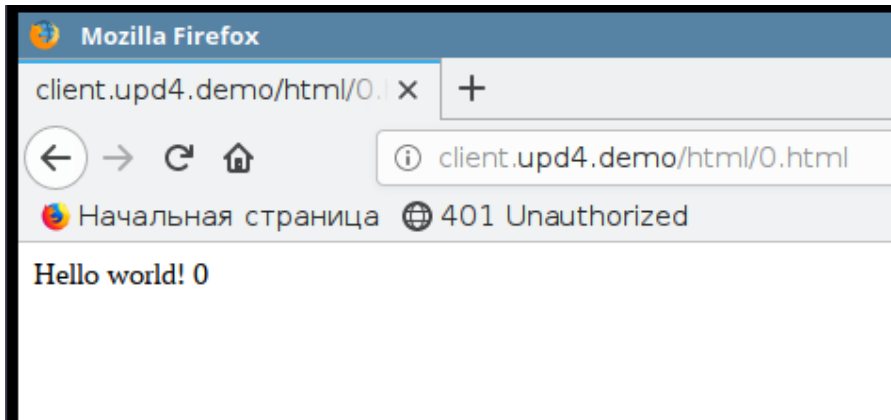
b. .

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



, (404), 403 (). , .

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



e.