



# FreeIPA XCA

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- ( )
- web-

 FreeIPA /etc/ssl/freeipa . . , XCA. . , .

 :

- Astra Linux Special Edition .10015-01 ( 1.7)
- Astra Linux Special Edition .10015-01 ( 1.6)
- Astra Linux Special Edition .10015-16 . 1 . 2
- Astra Linux Special Edition .10265-01 ( 8.1)
- Astra Linux Common Edition 2.12

 XCA

- : XCA
- OpenVPN XCA

IPADOMAIN.RU  
SERVER.IPADOMAIN.RU  
- REPLICAS.IPADOMAIN.RU


, ,  
, , DogTag.

, , XCA:

```
sudo apt install xca
```

 => "" => " XCA"

:

 "File" => "Language" => "Russian"

, :

 «» => « » => => «» => .

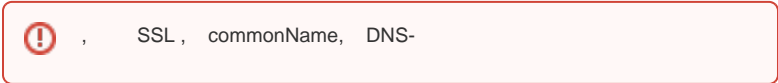
XCA

- «» « »;
  - , " ...";
  - " " "[Default] CA";
  - " ";
- «» («»);
  - () "organizationName" (IPADOMAIN.RU);
  - () "commonName" "Certification authority";

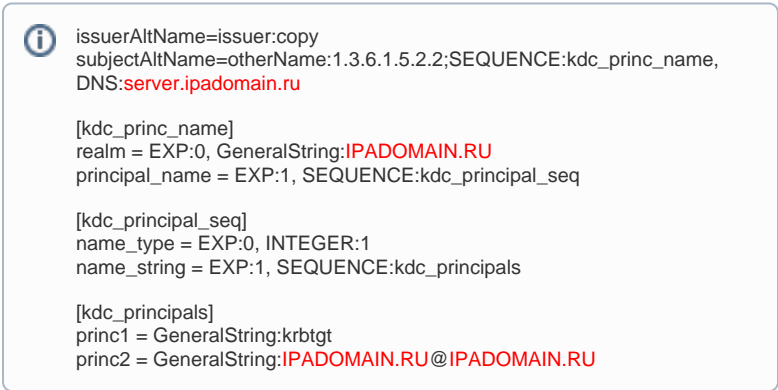
- ;
- « »:
  - « » , CA
  - « »
- « »
  - , « » « »;
  - "Critical", "Subject Key identifier", "Authority key Identifier"
  - : « » => 10 ()
- " "
  - "Critical", "Digital Signature", "Non repudation", "Certificate Sign", "CRL Sign";
- : « » => « »



- « » « »;
  - «Use this Certificate for signing» => «rootCA»;
  - "[Default] HTTPS\_server"
  - " "
- « » (« »);
  - () "organizationName" (IPADOMAIN.RU);
  - "commonName" " " () "server.ipadomain.ru", "replica.ipadomain.ru" ..;



- « »;
  - « » , serverKey;
  - « »;
- « »;
  - « » « » (« »);
  - "Critical", "Subject Key identifier", "Authority key Identifier"
  - : « » => 5;
  - "X509v3 Subject Alternative Name" (DNS:....) . ("").
- " " ,;
  - ("x509 v3 Key Usage") :
    - "Critical";
  - ("x509 v3 Key Usage") :
    - "Digital Signature";
    - "Non Repudiation";
    - "Key Encipherment";
    - "Data Encipherment";
    - "Key Agreement";
  - ("x509 v3 Extended Key Usage") :
    - "TLS Web Server Authentication";
    - "KDC Authentication" ( "Signing KDC response");
  - :
    - "OCSP Signing" - OCSP;
    - "E-mail protection" - ca-agent;
- "" "" ,;
  - ;
  - , ( , ):




- "" ,;
- "" ;


- "The certificate will be earlier valid than the signer. This is probably not what you want.", "

( )

1. XCA ( - ).
2. , , XCA.
3. XCA , FreeIPA:

 /etc/ssl/freeipa/ca.crt

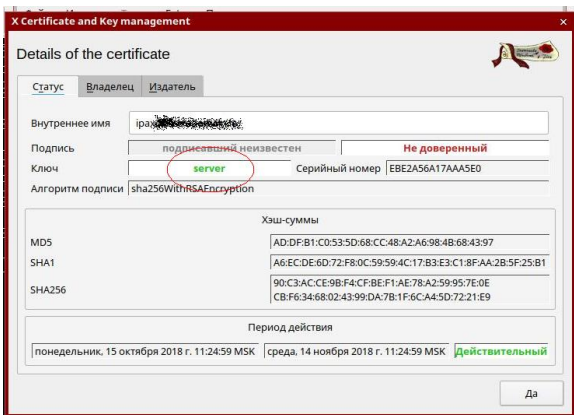
4. XCA , FreeIPA:

 /etc/ssl/freeipa/ca.key

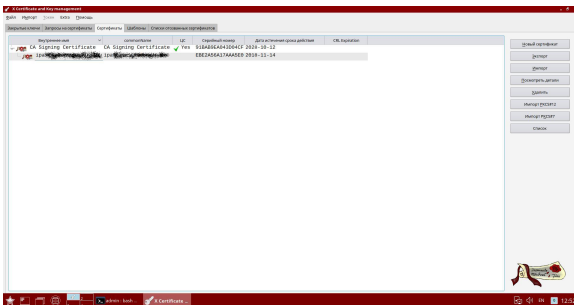
, . . :

5. XCA FreeIPA:

 /etc/ssl/freeipa/server.crt  
/etc/ssl/freeipa/server.key



:





```

""" :
    :
    :
    : """ - """ ("Transform" - "Similar Certificate");
    : """
  
```

- , «» => « » => PKCS12 chain => «»
- => «»

astra-freeipa-server:

```
sudo apt install astra-freeipa-server
```

, «astra-freeipa-server» -l<\_> -lp<\_>, :

```
sudo astra-freeipa-server -l /root/server.example.com.p12 -lp Password123
```

astra-freeipa-server :

```
astra-freeipa-server --help
```

## web-

, web- , XCA, web- XCA. :

1. XCA "PEM (\*.cert)";



```
/etc/ssl/freeipa/ca.crt
```

2. ;
3. web- ( web- FireFox):
  - a. ;
  - b. " ";
  - c. "" - "";
  - d. " " "";
  - e. ;
  - f. "";
  - g. " -";
  - h. "";
  - i. web-.