DHCP FreeIPA

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  - DHCP, LDAP
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- DHCP

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- 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

1. FreeIPA , Astra Linux: https://github.com/Turgon37/freeipa-plugin-dhcp. , .
   ALD Pro.
   . : , Astra Linux Special Edition;
2. DHCP, DHCP ;
3. . ;
4. DNS!!! DNS . DNS FreeIPA.

DHCP /etc/dhcp/dhcpd.conf. , . FreeIPA. DHCP , FreeIPA. DHCP FreeIPA, .

DNS- , .. /etc/resolv.conf nameserver, IP- .

- 10.0.2.0/24;
- () 10.0.2.1;
- FreeIPA ipadomain.ru;
- FreeIPA ipaserver.ipadomain.ru;
- IP- FreeIPA 10.0.2.10
- IP- DNS 10.0.2.10 (FreeIPA DNS FreeIPA).

DHCP, LDAP

DHCP, (LDAP). DHCP- (isc-dhcp-server), :

```
dpkg -s isc-dhcp-server && sudo apt purge isc-dhcp-server
```

, (isc-dhcp-server-ldap):

Astra Linux Special Edition x.7 isc-dhcp-server-ldap (. Astra Linux Special Edition x.7: ,).
Astra Linux Special Edition, x.7, isc-dhcp-server-ldap .

```
sudo apt install isc-dhcp-server-ldap
```

DHCP , :

1. IP-;
2. FreeIPA;

: freeipa-dhcp-plugin-install-v2.sh.

:

1. (git):

```
sudo apt install git
git clone https://github.com/Turgon37/freeipa-plugin-dhcp.git
```

freeipa-plugin-dhcp.

2. :

   a. freeipa-plugin-dhcp/install.sh

   ```
   IPALIB_DEST=/usr/lib/python2.7/site-packages/ipaserver/plugins/
   ```

   :

      i. Astra Linux Special Edition .10015-01 1.7:

      ```
      IPALIB_DEST=/usr/lib/python3/dist-packages/ipaserver/plugins/
      ```

      ii. Astra Linux Special Edition .10015-01 1.6:

      ```
      IPALIB_DEST=/usr/lib/python2.7/dist-packages/ipaserver/plugins/
      ```

   b. Astra Linux Special Edition .10015-01 1.7 freeipa-plugin-dhcp/ipaserver/dhcp.py

   ```
   except AttributeError, ValueError:
   ```

   :

   ```
   except (AttributeError, ValueError):
   ```

3. :

```
sudo freeipa-plugin-dhcp/install.sh
```

"Update failed: Server is unwilling to perform: Unknown attribute nsslapd-enable-upgrade-hash will be ignored" ;

DHCP

1. WEB- FreeIPA:

```
firefox https://`hostname`
```

DHCP . DHCP- ISC-DHCP

2. " " DHCP;

DHCP .

   a. "Configuration";
      i. Domain Name , :

ipadomain.ru

      ii. Domain Name Servers IP- DNS-, :

10.0.2.10

b. DHCP . , . :
   i. Subnets;
   ii. , :

10.0.2.0/24

   iii. ;
      1. "DHCP Statements" , :

range 10.0.2.11 10.0.2.99

      2. "DHCP Options" , :

routers 10.0.2.1

c. Servers;
   i. ( ) "";

3. DHCP (. DHCP), /etc/default/isc-dhcp-server , , :

```
...
INTERFACESv4="eth0"
#INTERFACESv6=""
```

4. /etc/dhcp/dhcpd.conf . :

```
# dhcpd.conf
# Sample configuration file for ISC dhcpd
# option definitions common to all supported networks...
option domain-name "ipadomain.ru";
option domain-name-servers 10.0.2.10;
default-lease-time 600;
max-lease-time 7200;
ldap-server "ipaserver.ipadomain.ru";
ldap-port 389;
ldap-username "cn=Directory Manager"; ldap-password "12345678";
ldap-base-dn "dc=ipadomain,dc=ru";
ldap-method dynamic;
ldap-debug-file "/var/log/dhcp-ldap-startup.log";
# The ddns-updates-style parameter controls whether or not the server will attempt to do a DNS update when a lease is
confirmed. We default to the behavior of the version 2 packages ('none', since DHCP v2 didn't # have support for DDNS.)
ddns-update-style none;
# If this DHCP server is the official DHCP server for the local network, the authoritative directive should be uncommented.
authoritative;
```

DHCP- .

5. DHCP FreeIPA:
   a. :

```
sudo systemctl edit isc-dhcp-server.service --full
```

   b. [Unit] After=ipa.service:

```
[Unit]
After=ipa.service
```

c. (nano - Ctrl-X - Y - Enter);

6. DHCP. stop-start, restart:

```
sudo systemctl stop isc-dhcp-server
sudo systemctl start isc-dhcp-server
```