CUPS Astra Linux

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- Astra Linux Special Edition .10015-01 .10015-10 (1.7)
- Astra Linux Special Edition .10015-37 (7.7)
- Astra Linux Special Edition .10152-02 (4.7)
- Astra Linux Special Edition .10015-01 (1.6) (20200722SE16 - 6)
- Astra Linux Special Edition .10015-16 . 1
- Astra Linux Special Edition .10015-16 . 2
- Astra Linux Special Edition .10265-01 (8.1)
- Astra Linux Common Edition 2.12

" **LibreOffice**" Astra Linux Special Edition .10015-01 (1.6) 20210611SE16 (7) .

" **(Astra Linux Special Edition 1.6.9 Astra Linux Common Edition 2.12.43)**" Astra Linux Special Edition . 10015-01 (1.6) 20211008SE16 (9) , Astra Linux Common Edition 2.12.43.

" Kerberos" Astra Linux Special Edition .10015-01 (1.7) 2021-1126SE17 (1.7.1) (cups 2.3.3op2-4astra.se9).

. CUPS

CUPS Astra Linux .

```
systemctl status cups
```

, :

```
sudo apt install cups
```

, parsec-cups:

```
sudo apt install cups parsec-cups
```

, , :

1. fly-admin-printer.
2. web- web-. :

   localhost:631/admin

   web- , .
3. cupsctl - sudo , (.). cupsctl .

, (), lpadmin (, " ") , SystemGroup /etc/cups/cups-files.conf.

Astra Linux Special Edition x.7 .

, /etc/cups/cupsd.conf. Kerberos, . man cupsd.conf.

, . /etc/sudoers.d/lpadmins :

```
%lpadmin ALL=(ALL:ALL) NOPASSWD: /usr/bin/systemctl restart cups
%lpadmin ALL=(ALL:ALL) NOPASSWD: /usr/bin/systemctl stop cups
%lpadmin ALL=(ALL:ALL) NOPASSWD: /usr/bin/systemctl start cups
%lpadmin ALL=(ALL:ALL) NOPASSWD: /usr/bin/systemctl status cups
```

, lpadmin, sudo , , cups . . man sudoers.

Astra Linux .

( )

, Astra Linux Special Edition, lpmac ( ) lpmac_ald ( ). MacAdmin /etc/cups/cupsd.conf ( ).

, .. localhost. .
:

1. web- web-.
2. :

```
sudo cupsctl --remote-admin
```

--remote-admin - .

, .
:

1. web- web-.
2. :

```
sudo cupsctl --share-printers --remote-any ServerAlias=`hostname`
```

:

- --share-printers - ;
- --remote-any - (, ,);
- ServerAlias - "" . cups HTTP-, (, IP- DNS). "*" () . , (cupsctl). , , , localhost.

3. **DefaultAuthType Basic;**
4. :

```
sudo cupsd -t
```

5. CUPS :

```
sudo systemctl restart cups
```

6. CUPS :

```
sudo systemctl status cups
```

web- CUPS

:

1. web- :

```
localhost:631/admin
```

2. " ".
3. , **lpadmin**.
4. , . (, USB- USB Printer #1). , " ".
5. .

> USB- .

6. , Print Test Page ( ) Maintenance ().
7. , , .

:

```
lp -d *_* *_*
```

:

```
lpadmin -p printername -E -v socket://11.22.33.44 -m drv:///sample.drv
/laserjet.ppd
```

LibreOffice

> " LibreOffice" Astra Linux Special Edition .10015-01 (1.6) 20210611SE16 (7)

LibreOffice (- -) . , , Fly, /etc/cups/client.conf :

```
DiscoveredOnly Yes
```

cups:

```
sudo systemctl restart cups
```

/etc/cups/printers.conf /etc/cups/ppd/* scp:

```
scp /etc/cups/printers.conf 10.10.10.10:/etc/cups/
scp /etc/cups/ppd/* 10.10.10.10:/etc/cups/ppd/
```

1. .

2. (, Astra Linux Special Edition parsec). **fly-admin-printer** (.) web- CUPS.

3. */etc/cups/client.conf*, ServerName, , :

```
ServerName <__>
```

Kerberos

Kerberos , . */etc/cups/client.conf*, ServerName, :

```
ServerName <__>
```

Kerberos FreeIPA

FreeIPA

- dc.domain.ipa – FreeIPA;
- printserver.domain.ipa (cups FreeIPA, printserver dc);
- client.domain.ipa – FreeIPA.

FreeIPA

FreeIPA (CLI) FreeIPA. CLI FreeIPA.

1. Kerberos (CLI FreeIPA. admin):

```
kinit admin
```

2. :

   a. , , print_admins:

```
ipa group-add print_admins
--------------------------------
  "print_admins"
--------------------------------
   : print_admins
  ID : 848400014
```

   b. - :

```
ipa group-add lpmac_ald
```

3. , , print-admins. :

   a. print_admin:

```
ipa user-add print_admin --first <> --last <>
```

   b. print_admin print_admins:

```
ipa group-add-member --users=print_admin print_admins
```

   c. (- print_admin) lpmac_ald :

```
ipa group-add-member --users=print_admin lpmac_ald
```

4. ipp (cups fly-admin-cups):

```
ipa service-add ipp/printserver.domain.ipa
```

5. web- cups , HTTP:

```
ipa service-add HTTP/printserver.domain.ipa
```

, .

1. - (Astra Linux Special Edition -) ;
2. Kerberos :

```
sudo kinit admin
```

3. /etc/krb5.keytab:
   a. ipp:

```
sudo ipa-getkeytab -p ipp/printserver.domain.ipa@DOMAIN.IPA -k /etc
/krb5.keytab
```

   b. web- cups:
      i. , :

```
sudo ipa-getkeytab -p HTTP/printserver.domain.ipa@DOMAIN.IPA -
k /etc/krb5.keytab
```

      ii. , HTTP (-r):

```
sudo ipa service-allow-retrieve-keytab HTTP/dc.domain.ipa --
groups=admins
sudo ipa-getkeytab -p HTTP/dc.domain.ipa@DOMAIN.IPA -k /etc
/krb5.keytab -r
sudo ipa service-disallow-retrieve-keytab HTTP/dc.domain.ipa/
--groups=admins
```

      . Kerberos web-.

4. , :

```
sudo klist -kte /etc/krb5.keytab
```

Kerberos Windows AD

. :

- CUPS Kerberos AD
- CUPS Kerberos KEYRING:persistent AD

Kerberos ALD

Kerberos ALD FreeIPA, .

1. **ALD** :

```
sudo ald-admin group-add print_admins
```

2. **ALD lpmac_ald:**

```
sudo ald-admin group-add lpmac_ald
```

3. */etc/cups/cups-files.conf* **SystemGroup** () **print_admins;**

4. **ALD** **ALD**, :

```
sudo ald-admin user-add print_admin
sudo ald-admin group-mod print_admins --add-users --user=print_admin
sudo ald-admin group-mod lpmac_ald --add-users --user=print_admin
```

5. **ALD** **ALD** **ALD**, . :

```
sudo ald-admin service-add ipp/server.my_domain
```

6. **mac**, :

```
sudo ald-admin sgroup-svc-add ipp/server.my_domain --sgroup=mac
```

7. **Kerberos** ALD **ald-client**, :

```
sudo ald-client update-svc-keytab ipp/server.my_domain
```

8. **sudo** :

```
sudo cupsctl DefaultPolicy=default ServerName=server.my_domain
MacEnable=On DefaultAuthType=Negotiate
```

9. CUPS, :

```
sudo systemctl restart cups
```

CUPS

CUPS FreeIPA ALD.

1. /etc/cups/cups-files.conf :

```
SystemGroup lpadmin
```

:

```
SystemGroup lpadmin print_admins
```

, . , lpadmin, admins , admins .

2. , " ". ( ):

```
sudo cupsctl DefaultPolicy=authenticated ServerName=printserver.domain.
ipa MacEnable=On DefaultAuthType=Negotiate
```

/etc/cups/cupsd.conf, () ("=" ,):

```
DefaultAuthType Negotiate
DefaultPolicy authenticated
ServerName printserver.domain.ipa
```

3. :

```
sudo cupsd -t
```

4. CUPS :

```
sudo systemctl restart cups
```

Kerberos

, cupsd:

1. Kerberos, sudo:

```
sudo kdestroy -A
```

2. (,), :

```
sudo cupsctl DefaultPolicy=default
```

:

```
cupsctl:
```

( ):

```
cupsctl:
```

3. Kerberos print_admin, :

```
sudo kinit print_admin
```

4. , Kerberos ;
5. :

```
kdestroy -A
/usr/sbin/cupsctl DefaultPolicy=default
#
kinit print_admin
/usr/sbin/cupsctl DefaultPolicy=default
#
```

Astra Linux Special Edition 1.6 20190222SE16 (1.6.2) :

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-

fly-admin-printer.

> /var/spool/cups/parsec (root), , lp.

:

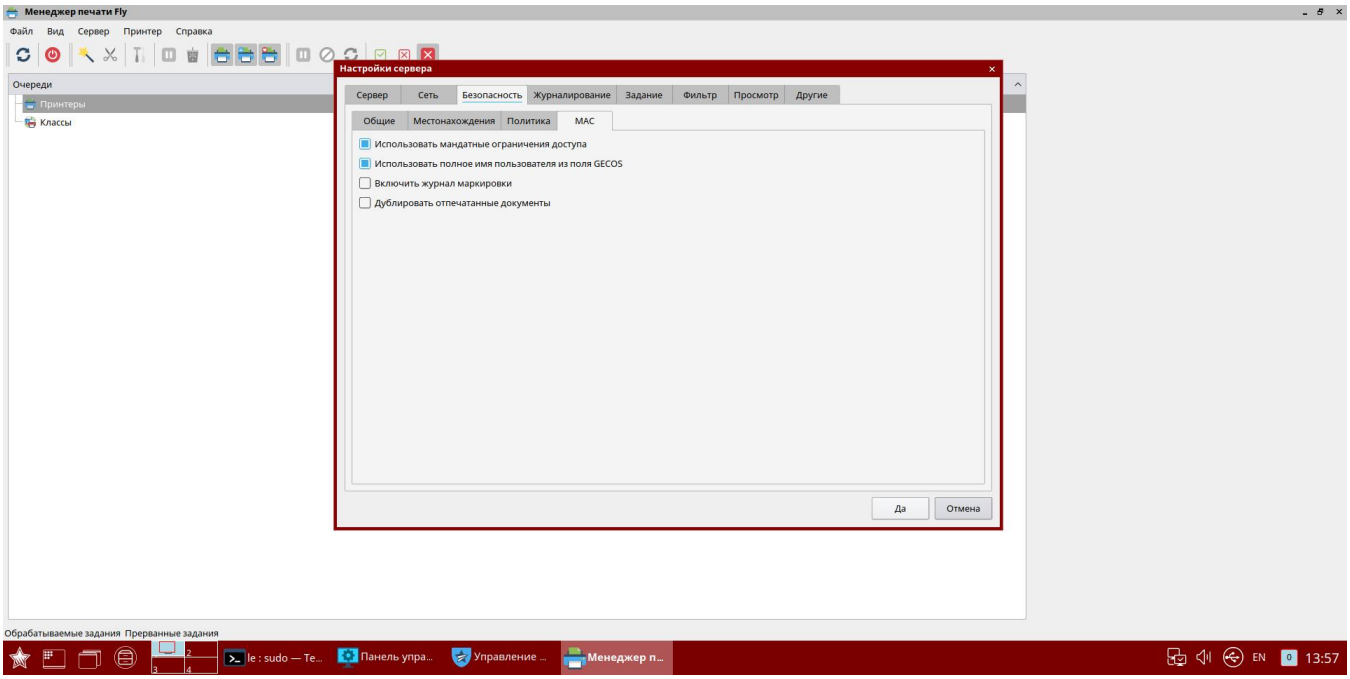
```
sudo fly-admin-printer
```

:

> "" - " " - "" - ""

> "" - "" - ""

"" " " / " ".



/etc/cups/cupsd.conf.

/usr/share/cups/cupsd.conf.default:

...
#rbt
MacEnable on
#MacDuplicate off
#MacJournal off
#MacFullUserName on
#
#MarkerUser ipp
#MaxLogSize 0
#\rbt
...

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- Astra Linux Special Edition .10015-01 (1.6) 20211008SE16 (9);
- Astra Linux Common Edition 2.12.43.

:

- : " " . . .
- . /etc/cups/cupsd.conf :

```
MyJobsAccessOnly On
```

CUPS. .

- - (, lpadmin). .

parsec-cups. .

, Astra Linux Special Edition, , , , , .

().

, , Astra Linux Special Edition .10015-01 (1.6) :

- fly-admin-printer ("" > " " > "" > "");
- fly-jobviewer, fly-admin-printer, .
  : "" "" " ";
- markjob.

, lpmac.

fly-admin-printer:

- ;
- "";
- , , "";
- , "";
- , "";
- , "".

markjob:

- ;
- ;
- ;

- ;

/etc/cups/marker.template.