FTP

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  - ,
- IP-
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  -
    -
    - 20-
    - "500 OOPS: vsftpd: refusing to run with writable root inside chroot ()"
    - FTP Astra Linux
      - ftp
      - inetutils-ftp
      - ncftp
      - lftp

:

- Astra Linux Special Edition .10015-01 (1.7), .10015-10
- Astra Linux Special Edition .10015-17
- Astra Linux Special Edition .10015-37 (7.7)
- Astra Linux Special Edition .10015-03 (7.6)
- Astra Linux Special Edition .10152-02 (4.7)
- Astra Linux Special Edition .10015-01 (1.6)
- 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

FTP (. File Transfer Protocol) — , . «-» . FTP , , , , .

FTP, TFTP. . . Astra Linux (UEFI Legacy BIOS).

, . .

FTP Astra Linux `vsftpd`. . (. synaptic) :

```
sudo apt install vsftpd
```

, .

FTP `fly-admin-ftp`.

```
sudo apt install fly-admin-ftp
```

"" - " " - "" - "FTP-".

`/etc/vsftpd.conf`, .

:

- — , : YES NO;
- — , , .. ;
- — , , , : `/run/vsftpd/`;

, , " ".

, .

, , " ". " "

```
man vsftpd.conf
```

"#" - , vsftpd.

,

vsftpd (, . `man vsftpd.conf`):

- IPv4 IPv6 (`listen=NO listen_ipv6=YES`).
- (`anonymous_enable=NO`).
- (`-`) , , (`local_enable=YES`) . .
- .
- , , , , , . , , Midmight Commander . , .
- , .

:

```
#  IPv4  IPv6
listen=NO
listen_ipv6=YES

#  .
anonymous_enable=NO

#
local_enable=YES

#     FTP .  - . .
#write_enable=YES

#     (  .message)
dirmessage_enable=YES

#    .  -  GMT
use_localtime=YES

#  /.
xferlog_enable=YES

#  20-  (. )
connect_from_port_20=YES

#  ,  ftp
#  chroot()  vsftpd  .
secure_chroot_dir=/run/vsftpd/empty

#    PAM
pam_service_name=vsftpd

#
rsa_cert_file=/etc/ssl/certs/ssl-cert-snakeoil.pem
rsa_private_key_file=/etc/ssl/private/ssl-cert-snakeoil.key
ssl_enable=NO

# ,    UTF8
# utf8_filesystem=YES
```

IP-

IP- - `listen listen-ipv6`. , , IPv4 IPv6:

```
listen=NO #     IPv4.    NO.    YES,   listen_ipv6    NO
listen_ipv6=YES #     IPv4  IPv6.    YES.    NO,   listen    YES,        IPv4
```

, .

chroot_local_user=YES. YES (chroot-). . , chroot- (. "500 OOPS: vsftpd: refusing to run with writable root inside chroot ()"). :

- chroot-. , .
- chroot-, allow_writeable_chroot=YES. ;

, local_root=<_>. , /etc/vsftpd.conf . ..

, /etc/vsftpd.conf . :

1. /etc/vsftpd.conf user_config_dir=<__>.
2. , . . , .

, write_enable=YES.

anon_mkdir_write_enable, anon_other_write_enable, anon_upload_enable. . man vsftpd.conf. .

FTP :

( ) . , . :

1. anonymous_enable=NO anonymous_enable=YES.
2. ftp (/etc/passwd /srv/ftp). anon_root=<_>. /srv/ftp (ftp), (- "500 OOPS: cannot change directory:/srv/ftp"). ftp, (. "500 OOPS: vsftpd: refusing to run with writable root inside chroot ()"). .

/var/log/vsftpd.log. /etc/vsftp.conf:

```
# You may override where the log file goes if you like. The default is shown
# below.
#xferlog_file=/var/log/vsftpd.log
```

, . , , :

```
touch /var/log/vsftpd.log
service vsftpd restart
```

dirmessage_enable=YES.

, , .message, message_file

20-

FTP :

- – , . . TCP- (1024-65535) 21 FTP- , .;
- , .

, FTP ( ) .

- **:** 1024-65535 , . 20;
- **:** 1024-65535), ;

FTP FTP – , .
, FTP-. , .

"500 OOPS: vsftpd: refusing to run with writable root inside chroot ()"

vsftpd .
500 , :

- (write_enable=YES);
- ;
- ,
- , , .

, `anon_root`.

. .

FTP Astra Linux

(--help -h) man.

ftp

ftp. Astra Linux.

: /usr/bin/netkit-ftp, /usr/bin/ftp.

inetutils-ftp

ftp. Astra Linux x.7.

: /usr/bin/inetutils-ftp, /usr/bin/ftp.

ncftp

ftp. Astra Linux x.7.

: /usr/bin/ncftp3, /usr/bin/ncftp.

lftp

, FTP . Astra Linux.

: /usr/bin/lftp