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

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

! , *

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

! , *

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? ? *

```
man vsftpd.conf
```

"#" - , vsftpd.

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

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

 # IPv4 IPv6  
listen=NO

```
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
```