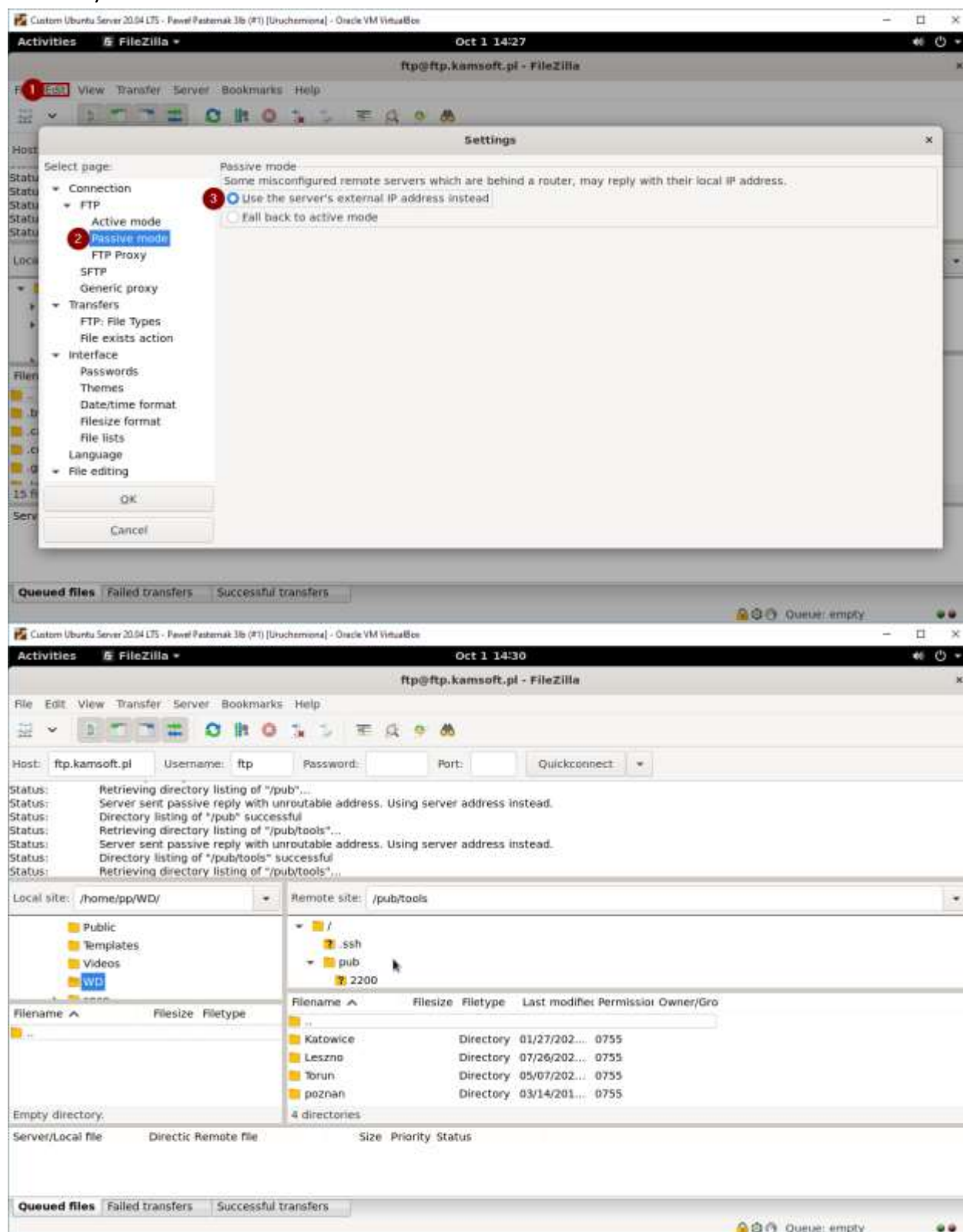


Uruchomienie i konfiguracja serwera vsFTPD.

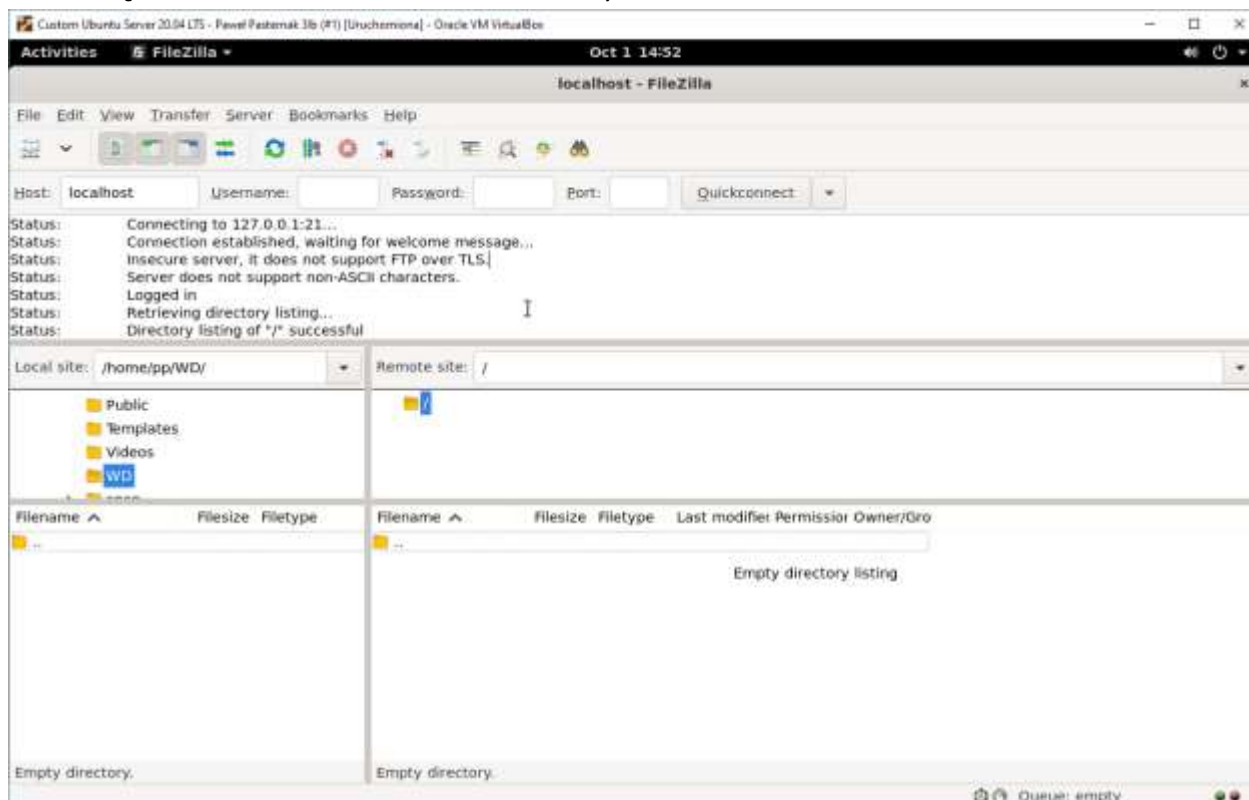
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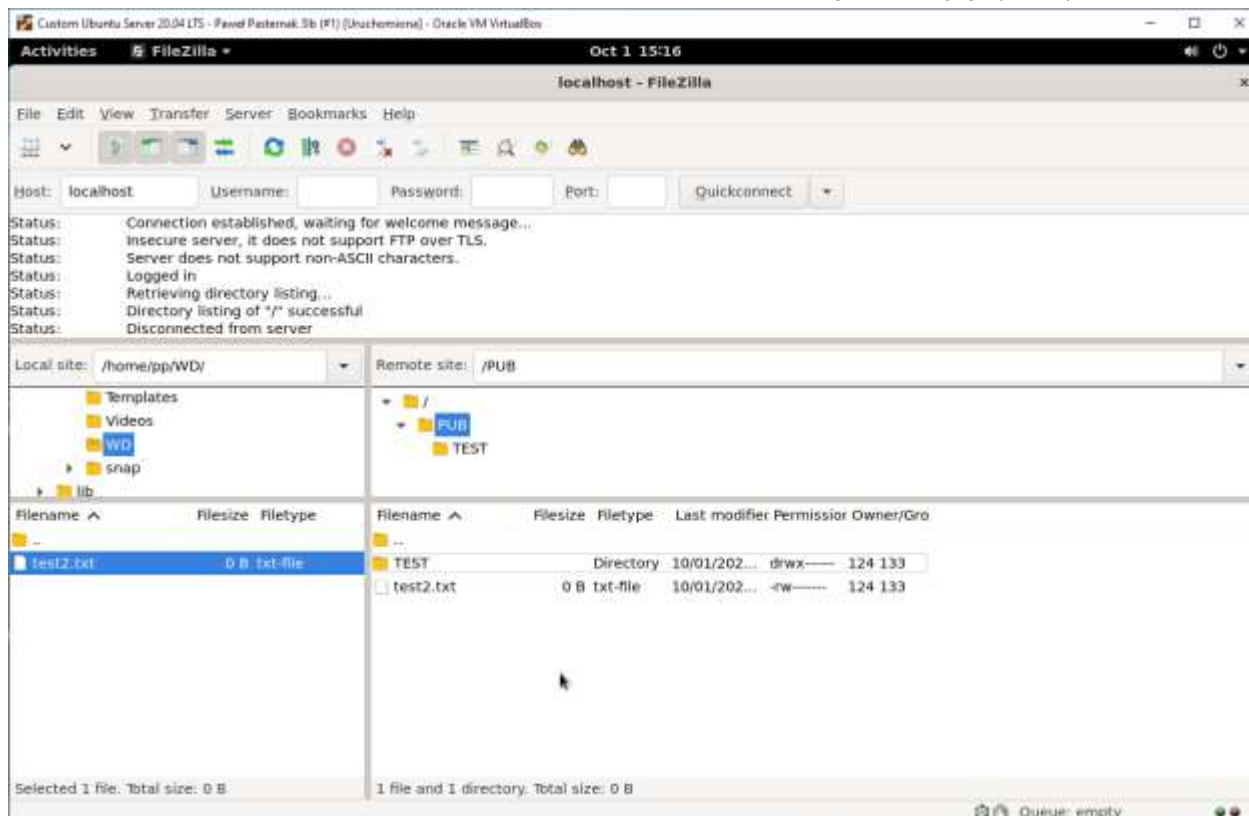
1. Uruchomić klienta FTP np. FileZilla i zalogować się na dowolny serwer FTP w trybie PASSIVE



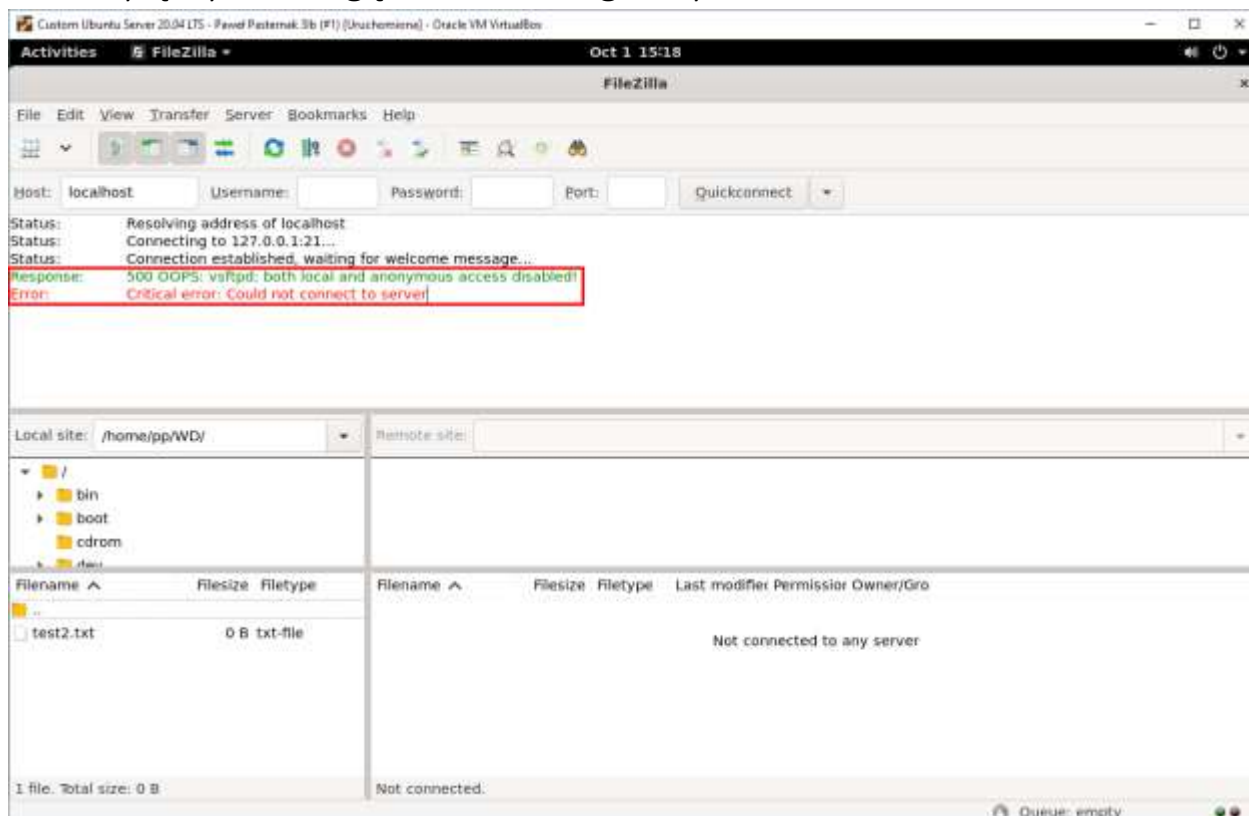
2. Uruchomić usługę serwera vsFTPD i za pomocą wybranego klienta połączyć się z serwerem na konto anonymous.



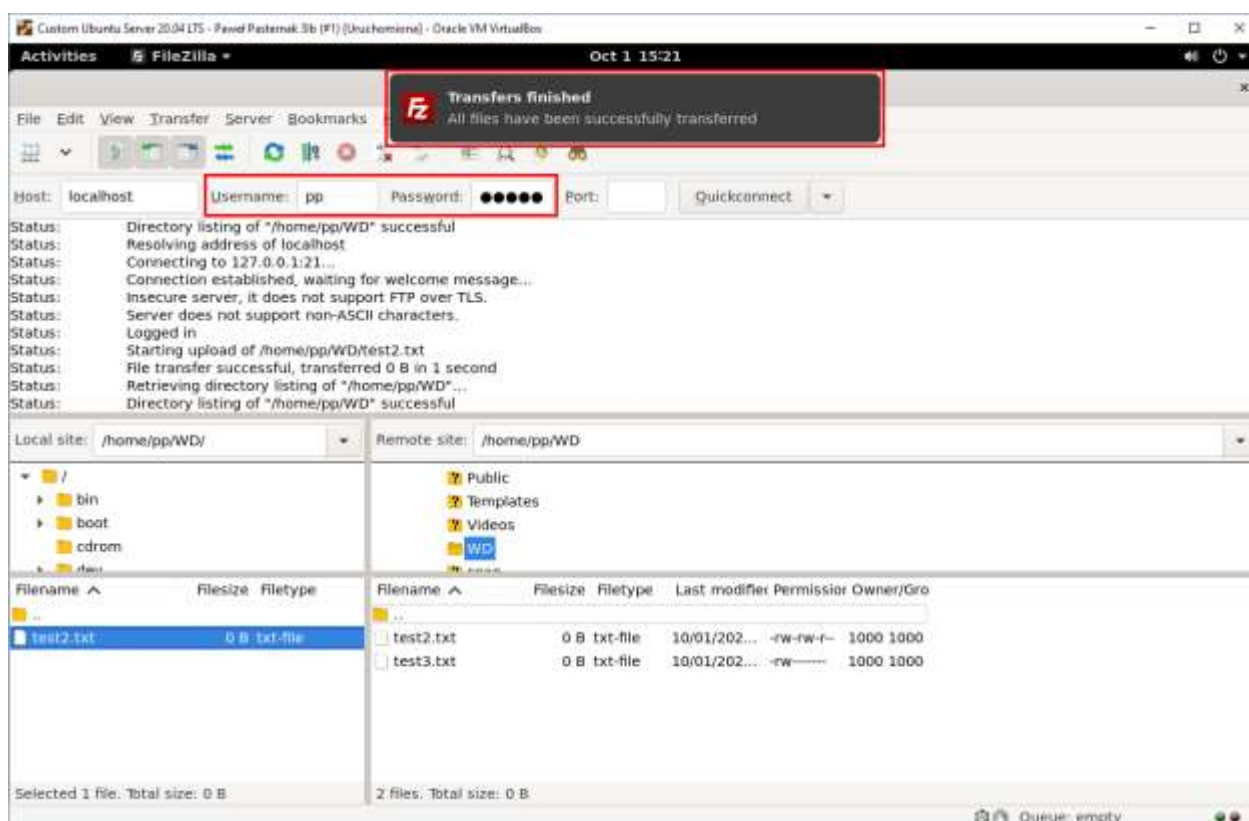
3. Umożliwić użytkownikowi anonymous tworzenie własnych katalogów na serwerze oraz zezwolić na usuwanie/zmianę istniejących plików.



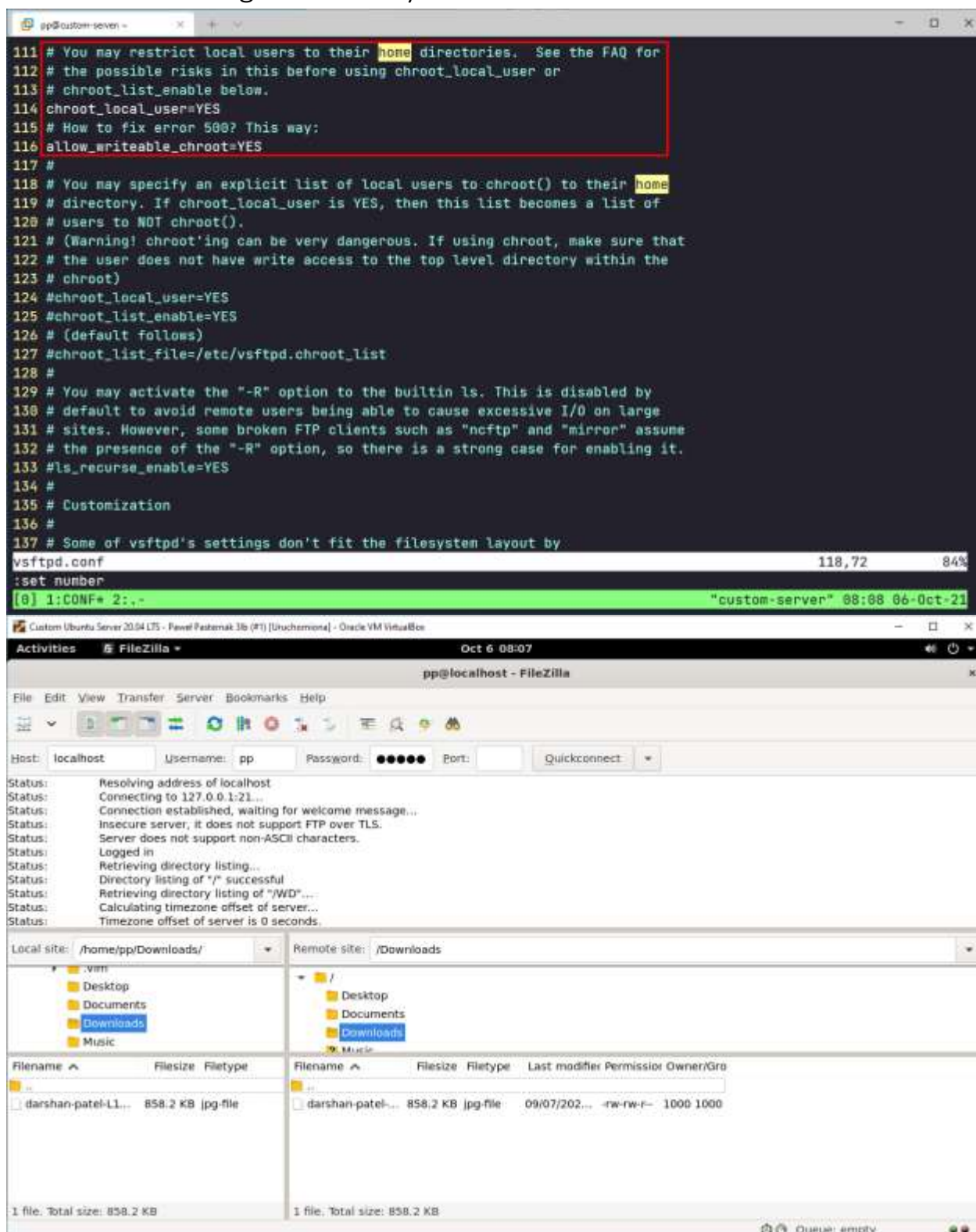
4. Wyłączyć obsługę anonimowego użytkownika.



5. Zalogować się na serwer przy użyciu konta systemowego oraz pobrać i/lub umieścić dowolne dane.



6. Ogranicz użytkownikom logującym się do serwera vsFTPD dostępu wyłącznie do ich katalogów domowych.0



The image shows two windows from a virtual machine. The top window is a terminal with the configuration of `vsftpd.conf`. The bottom window is the FileZilla client interface showing a connection to `localhost`.

Terminal Window (vsftpd.conf configuration):

```

111 # You may restrict local users to their home directories. See the FAQ for
112 # the possible risks in this before using chroot_local_user or
113 # chroot_list_enable below.
114 chroot_local_user=YES
115 # How to fix error 500? This way:
116 allow_writeable_chroot=YES
117 #
118 # You may specify an explicit list of local users to chroot() to their home
119 # directory. If chroot_local_user is YES, then this list becomes a list of
120 # users to NOT chroot().
121 # (Warning! chroot'ing can be very dangerous. If using chroot, make sure that
122 # the user does not have write access to the top level directory within the
123 # chroot)
124 #chroot_local_user=YES
125 #chroot_list_enable=YES
126 # (default follows)
127 #chroot_list_file=/etc/vsftpd.chroot_list
128 #
129 # You may activate the "-R" option to the builtin ls. This is disabled by
130 # default to avoid remote users being able to cause excessive I/O on large
131 # sites. However, some broken FTP clients such as "ncftp" and "mirror" assume
132 # the presence of the "-R" option, so there is a strong case for enabling it.
133 #ls_recurse_enable=YES
134 #
135 # Customization
136 #
137 # Some of vsftpd's settings don't fit the filesystem layout by
vsftpd.conf
: set number
[0] 1:CONF= 2:,- "custom-server" 08:08 06-Oct-21

```

FileZilla Client Window:

Host: localhost Username: pp Password: [masked] Port: Quickconnect

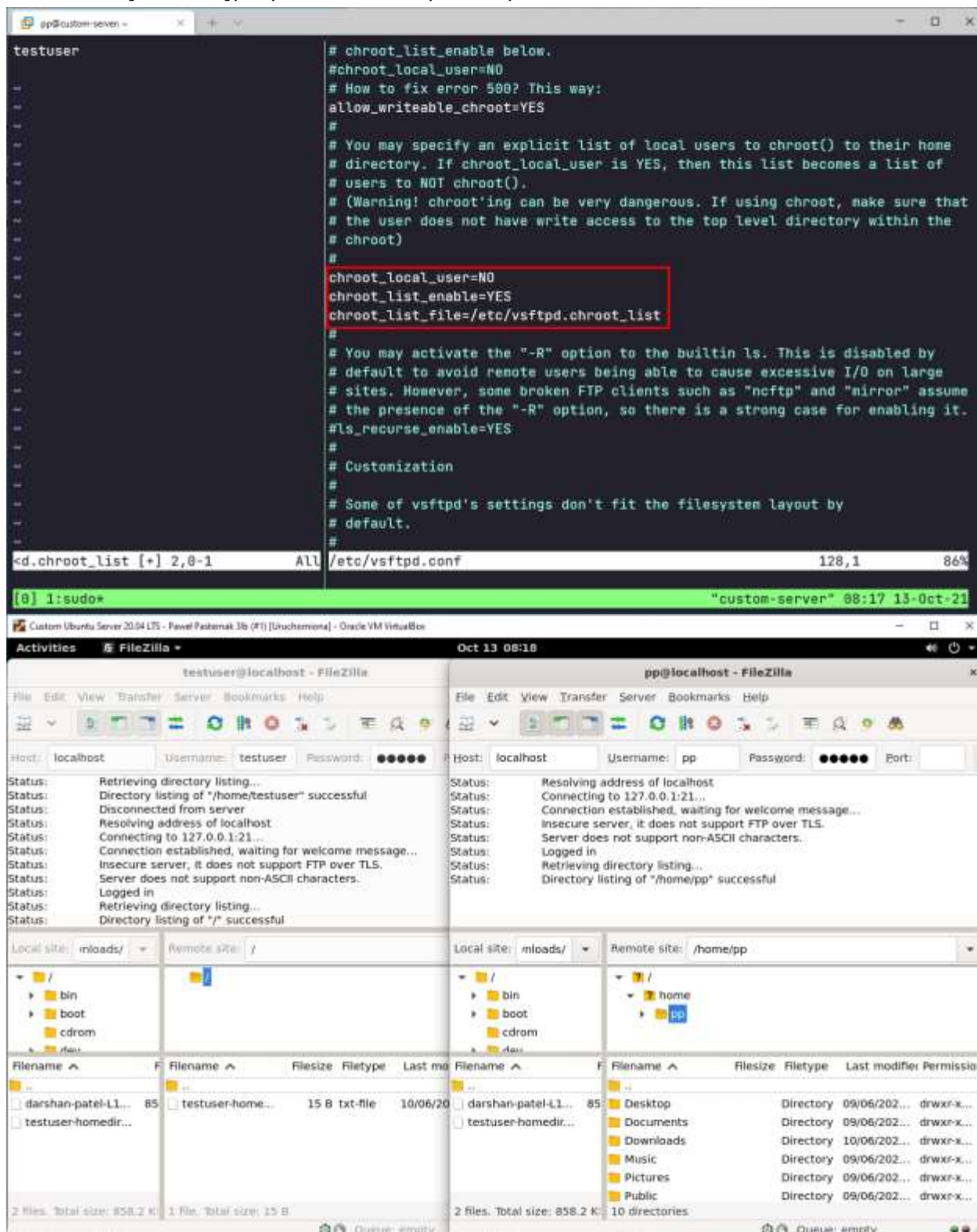
Status: Resolving address of localhost
Status: Connecting to 127.0.0.1:21...
Status: Connection established, waiting for welcome message...
Status: Insecure server, it does not support FTP over TLS.
Status: Server does not support non-ASCII characters.
Status: Logged in
Status: Retrieving directory listing...
Status: Directory listing of "/" successful
Status: Retrieving directory listing of "/WD"...
Status: Calculating timezone offset of server...
Status: Timezone offset of server is 0 seconds.

Local site: /home/pp/Downloads/ Remote site: /Downloads

Filename	Filesize	Filetype	Last modifier	Permissions	Owner/Gro
darshan-patel-L1...	858.2 KB	jpg-file	09/07/202...	-rw-rw-r--	1000 1000

1 file, Total size: 858.2 KB

7. Zawęż dostęp tylko niektórym użytkownikom.



The image shows a terminal window and two FileZilla client windows. The terminal window displays the configuration of vsftpd, with a red box highlighting the following settings:

```
chroot_local_user=NO
chroot_list_enable=YES
chroot_list_file=/etc/vsftpd.chroot_list
```

The terminal window also shows the command `cd.chroot_list [+]` and the output `2,0-1 All /etc/vsftpd.conf 128,1 86%`.

The two FileZilla client windows show the status of the connections. The left window shows a successful connection to the local host (localhost) using the username `testuser`. The right window shows a successful connection to the local host (localhost) using the username `pp`.

The FileZilla client windows also show the local and remote site paths. The left window shows the local site as `/mloads/` and the remote site as `/`. The right window shows the local site as `/mloads/` and the remote site as `/home/pp`.

8. Zablokuj dostęp do serwera vsFTPD wybranemu użytkownikowi.

The image shows a terminal window displaying the configuration of the vsftpd service. The configuration file is `/etc/vsftpd.conf`. The following settings are highlighted with a red box:

```
# Locking users access to ftp server
userlist_enable=YES
userlist_deny=YES
userlist_file=/etc/vsftpd.userlist
```

Below the configuration, the status of the `vsftpd.userlist` file is shown as `2,8-1` and `All`. The terminal also shows the command `sudo*` being executed.

Below the terminal, two FileZilla client windows are shown. The left window shows the connection logs for the user `testuser` connecting to `localhost`. The logs indicate that the connection was established, but the user was denied access due to the configuration in the `vsftpd.conf` file.

The right window shows the connection logs for the user `pp` connecting to `localhost`. The logs indicate that the connection was established and the user was able to list the directory contents successfully.

The image shows a terminal window and two FileZilla client windows. The terminal window displays the configuration file `/etc/vsftpd.conf` for the `testuser` user. The configuration includes settings for `chroot_list_enable=YES`, `chroot_list_file=/etc/vsftpd.chroot_list`, and `userlist_enable=YES` (highlighted in a red box). The `userlist_file` is set to `/etc/vsftpd.userlist`. The terminal also shows the `vsftpd.conf` file permissions as `139,8-1` and `98%`.

The FileZilla window on the left shows the connection status for `testuser@localhost`. The status bar indicates "Disconnected from server". The file listing shows two files: `darshan-patel-L1...` (85 B) and `testuser-homedir...` (15 B).

The FileZilla window on the right shows the connection status for `pp@localhost`. The status bar indicates "Connecting to 127.0.0.1:21...". The file listing shows two files: `darshan-patel-L1...` (85 B) and `testuser-homedir...` (15 B). The status bar also shows "Not connected to any server".

9. Zmiana lokalizacji folderu dla użytkownika anonymous

The image shows a terminal window and a FileZilla client window. The terminal window displays the configuration of vsftpd, with a red box highlighting the section for anonymous FTP. The FileZilla client window shows the connection to localhost, with the remote site listing the directory structure.

Terminal Window:

```
#
# Allow anonymous FTP? (Disabled by default).
anonymous_enable=YES
# Anonymous home directory location
anon_root=/srv/ftp_new_location
#
# Uncomment this to allow local users to log in.
local_enable=YES
#
# Uncomment this to enable any form of FTP write command.
write_enable=YES
#
# Default umask for local users is 077. You may wish to change this to 022,
# if your users expect that (022 is used by most other ftpd's)
#local_umask=022
#
# Uncomment this to allow the anonymous FTP user to upload files. This only
# has an effect if the above global write enable is activated. Also, you will
# obviously need to create a directory writable by the FTP user.
anon_upload_enable=YES
#
# Uncomment this if you want the anonymous FTP user to be able to create
# new directories.
anon_mkdir_write_enable=YES
#
# Activate directory messages - messages given to remote users when they
# go into a certain directory.
#dir_message_enable=YES
/etc/vsftpd.conf 28,1 15%
```

FileZilla Client Window:

Host: localhost Username: Password: Port: Quickconnect

Status: Connecting to 127.0.0.1:21...
Status: Connection established, waiting for welcome message...
Status: Insecure server, it does not support FTP over TLS.
Status: Server does not support non-ASCII characters.
Status: Logged in
Status: Retrieving directory listing...
Status: Directory listing of "/" successful
Status: Retrieving directory listing of "/"...
Status: Calculating timezone offset of server...
Status: Timezone offset of server is 0 seconds.
Status: Directory listing of "/" successful

Local site: /home/pp/Downloads/ Remote site: /

Filename	Filesize	Filetype	Last modified	Permissions	Owner/Gro
..					
bin					
darshan-patel-L1...	858.2 KB	jpg-file			
testuser-homedir...	15 B	txt-file			

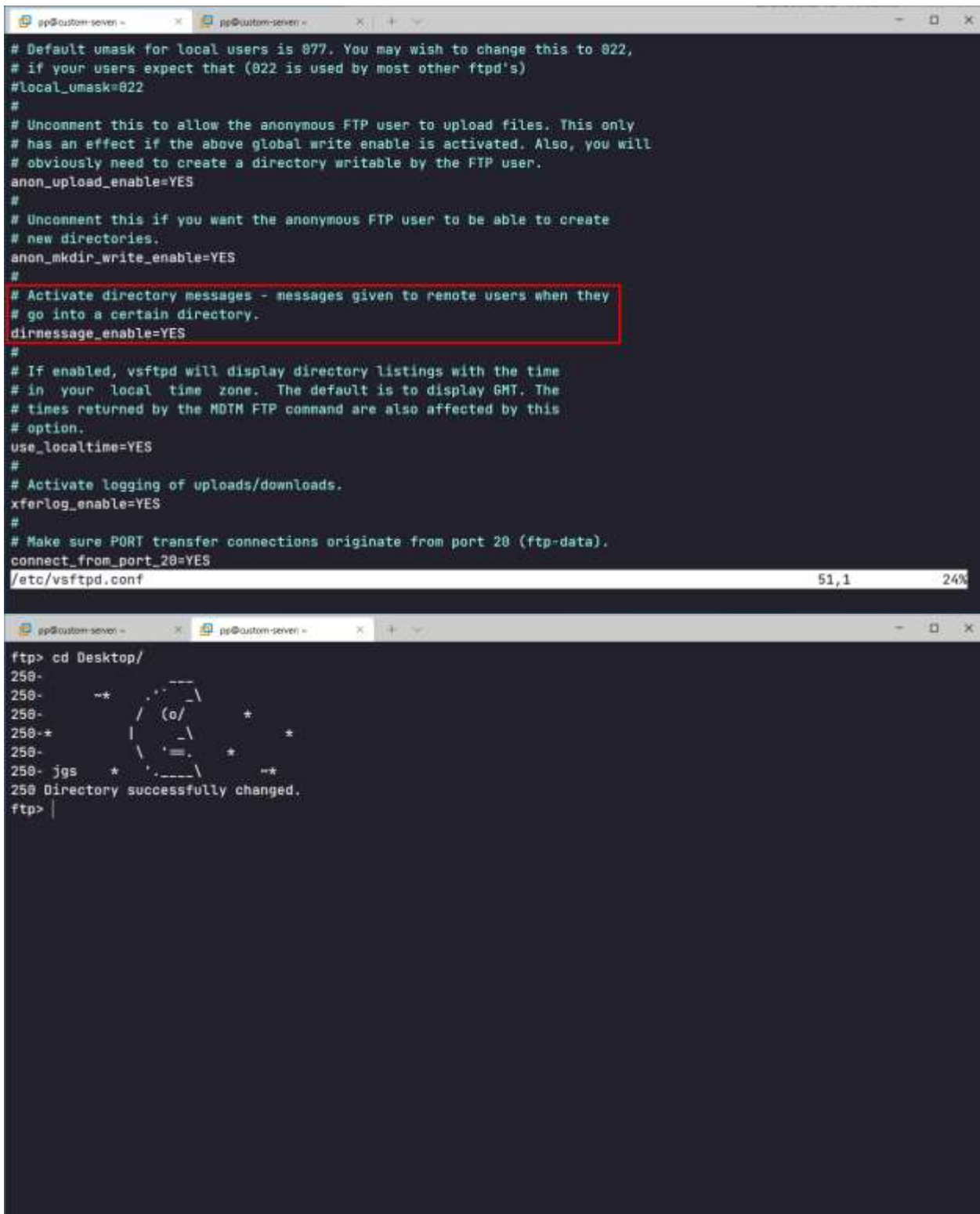
2 files, Total size: 858.2 KB

Filename	Filesize	Filetype	Last modified	Permissions	Owner/Gro
..					
test_new_location	0 B	File	10/13/2022..	-rw-r--r--	0 0

1 file, Total size: 0 B

Queue: empty

10. Po przejściu do wybranego katalogu zdalnego ma się wyświetlić stosowny komunikat



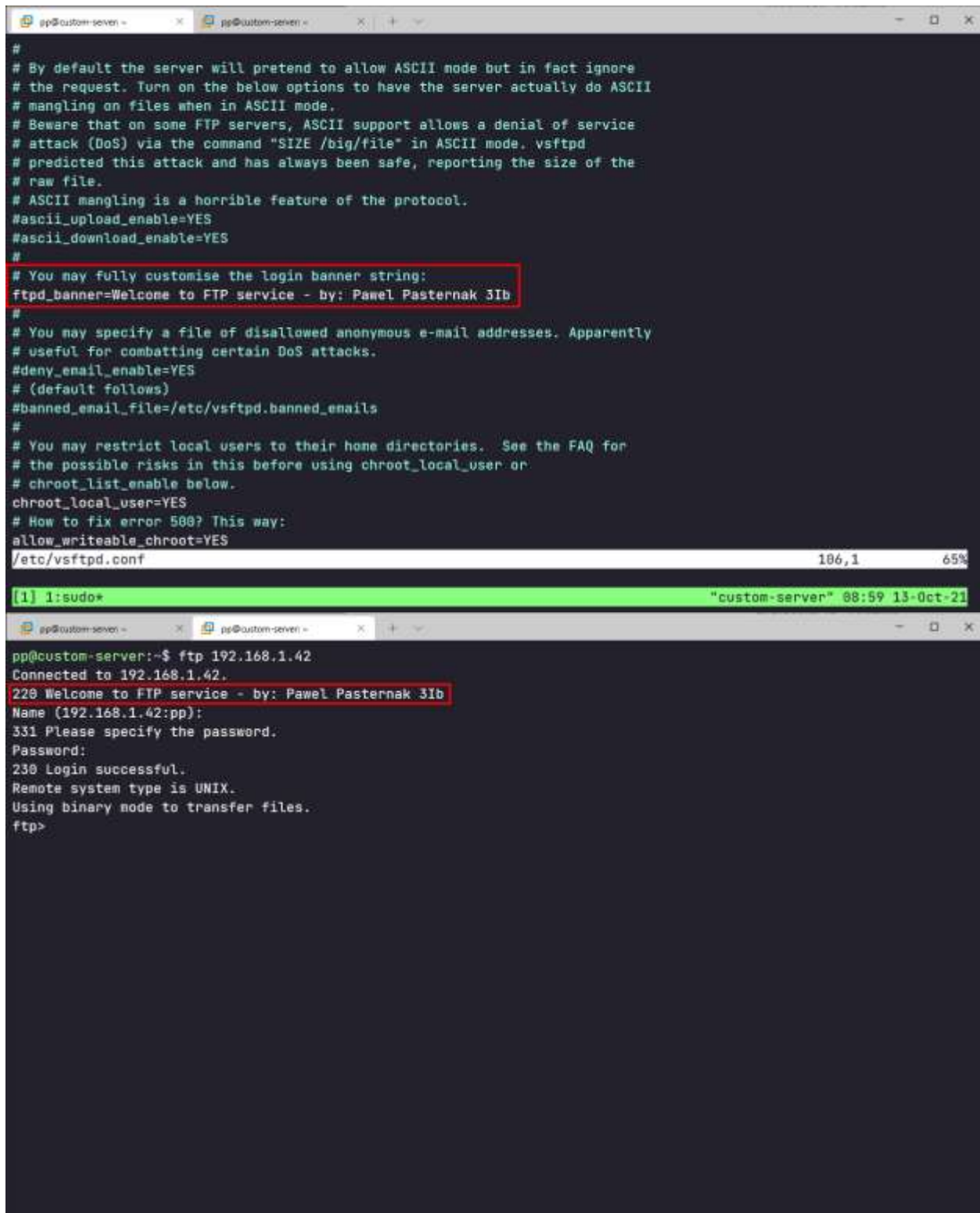
The image consists of two screenshots of a terminal window. The top screenshot shows the configuration file `/etc/vsftpd.conf` with various settings. A red box highlights the following lines:

```
# Activate directory messages - messages given to remote users when they
# go into a certain directory.
dirmessage_enable=YES
```

The bottom screenshot shows the output of the `ftp> cd Desktop/` command. The response from the server is:

```
250-
250-  ~*
250-  /  (o/  *
250-  |  _\  *
250-  \  '==  *
250-  jgs  *  _\  ~*
250 Directory successfully changed.
ftp> |
```

11. Wyświetl komunikat powitalny serwera FTP



```
#
# By default the server will pretend to allow ASCII mode but in fact ignore
# the request. Turn on the below options to have the server actually do ASCII
# mangling on files when in ASCII mode.
# Beware that on some FTP servers, ASCII support allows a denial of service
# attack (DoS) via the command "SIZE /big/file" in ASCII mode. vsftpd
# predicted this attack and has always been safe, reporting the size of the
# raw file.
# ASCII mangling is a horrible feature of the protocol.
#ascii_upload_enable=YES
#ascii_download_enable=YES
#
# You may fully customise the login banner string:
ftpd_banner=Welcome to FTP service - by: Paweł Pasternak 3Ib
#
# You may specify a file of disallowed anonymous e-mail addresses. Apparently
# useful for combatting certain DoS attacks.
#deny_email_enable=YES
# (default follows)
#banned_email_file=/etc/vsftpd.banned_emails
#
# You may restrict local users to their home directories. See the FAQ for
# the possible risks in this before using chroot_local_user or
# chroot_list_enable below.
chroot_local_user=YES
# How to fix error 500? This way:
allow_writeable_chroot=YES
/etc/vsftpd.conf 186,1 65%

[1] 1:sudo* "custom-server" 08:59 13-Oct-21

pp@custom-server:~$ ftp 192.168.1.42
Connected to 192.168.1.42.
220 Welcome to FTP service - by: Paweł Pasternak 3Ib
Name (192.168.1.42:pp):
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```