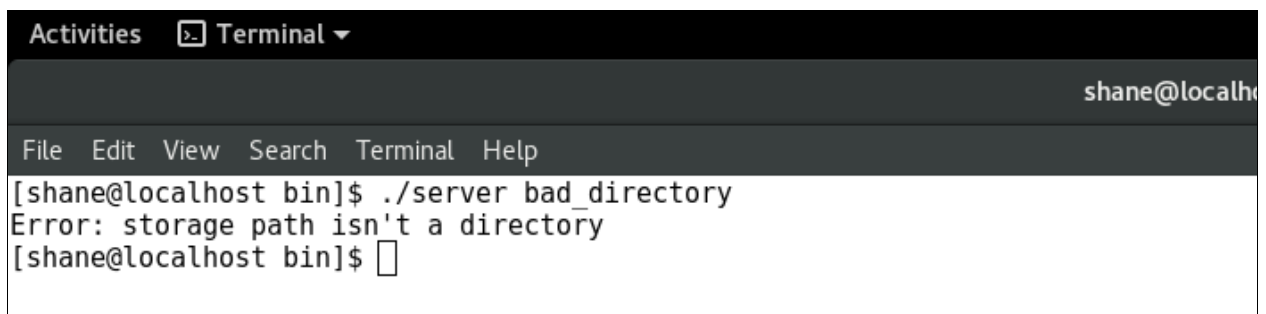


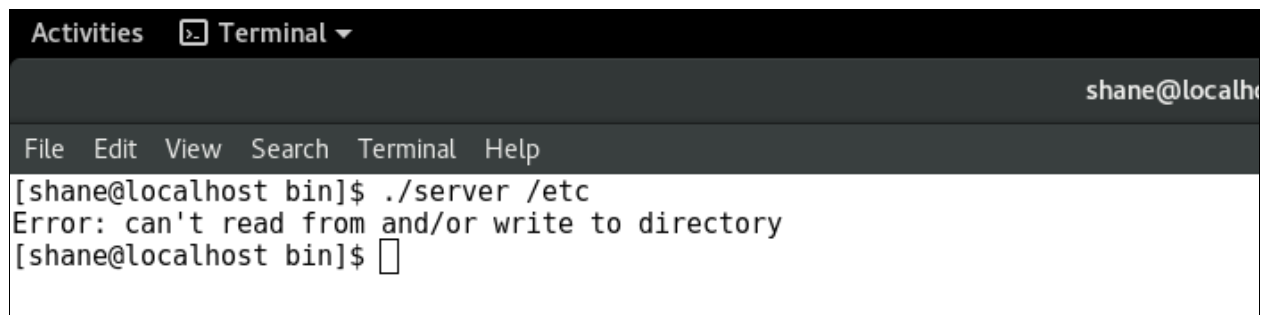
Server Tests

Test Number	Description	Tools Used	Expected Outcome	Result
C1	Server is given invalid directory	server	Server displays error and exits	Passed (Figure 1)
C2	Server is given directory with no read and/or write privileges	server	Server displays error and exits	Passed (Figure 2)
C3	Server receives client connection	server, client	Server accepts connection and waits for commands	Passed (Figure 3)
C4	Server receives GET command for existing file	server, client	Server reads file and sends it back to client	Passed (Figure 4)
C5	Server receives GET command for non-existent file	server, client	Server sends error back to client	Passed (Figure 5)
C6	Server receives SEND command	server, client	Server opens the specified file and writes the contents sent by the client	Passed (Figure 6)
C7	Client disconnects from server	client, server	Server logs disconnection message and waits for next client	Passed (Figure 7)



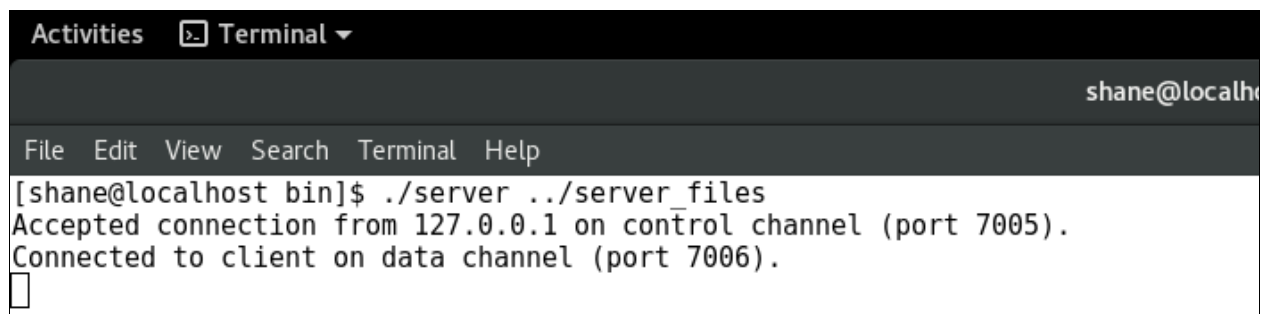
```
Activities  Terminal ▾
shane@localhost
File Edit View Search Terminal Help
[shane@localhost bin]$ ./server bad_directory
Error: storage path isn't a directory
[shane@localhost bin]$
```

Figure 1: Server is given invalid directory



```
Activities [Terminal]
shane@localhost
File Edit View Search Terminal Help
[shane@localhost bin]$ ./server /etc
Error: can't read from and/or write to directory
[shane@localhost bin]$
```

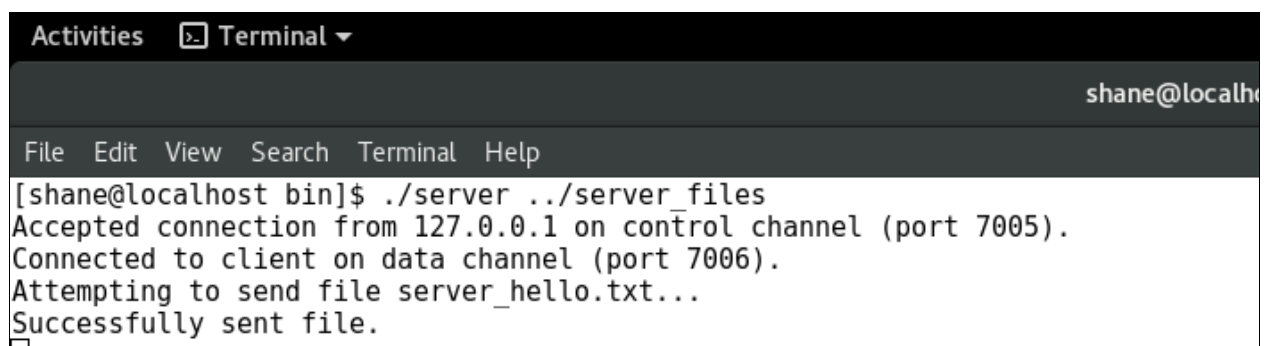
Figure 2: Server is given directory with no read and/or write permissions



```
Activities [Terminal]
shane@localhost
File Edit View Search Terminal Help
[shane@localhost bin]$ ./server ../server_files
Accepted connection from 127.0.0.1 on control channel (port 7005).
Connected to client on data channel (port 7006).

```

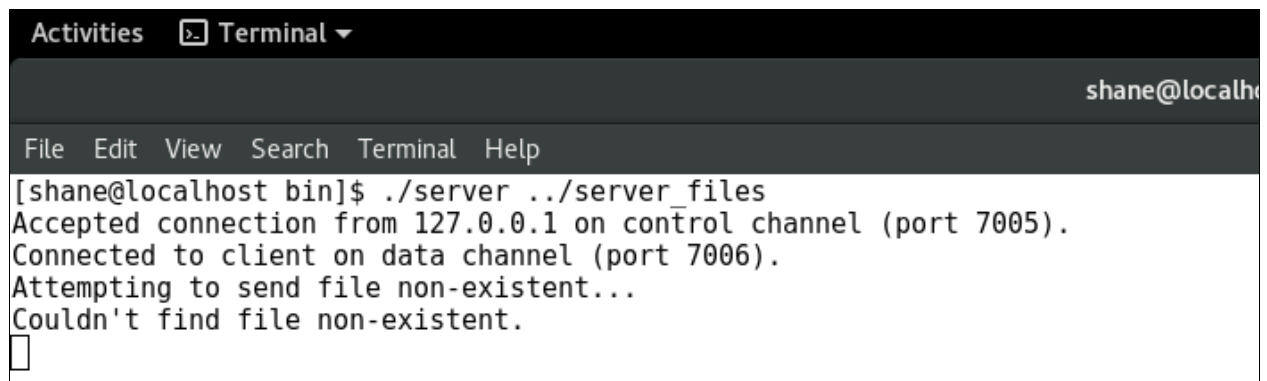
Figure 3: Server receives client connection



```
Activities [Terminal]
shane@localhost
File Edit View Search Terminal Help
[shane@localhost bin]$ ./server ../server_files
Accepted connection from 127.0.0.1 on control channel (port 7005).
Connected to client on data channel (port 7006).
Attempting to send file server_hello.txt...
Successfully sent file.

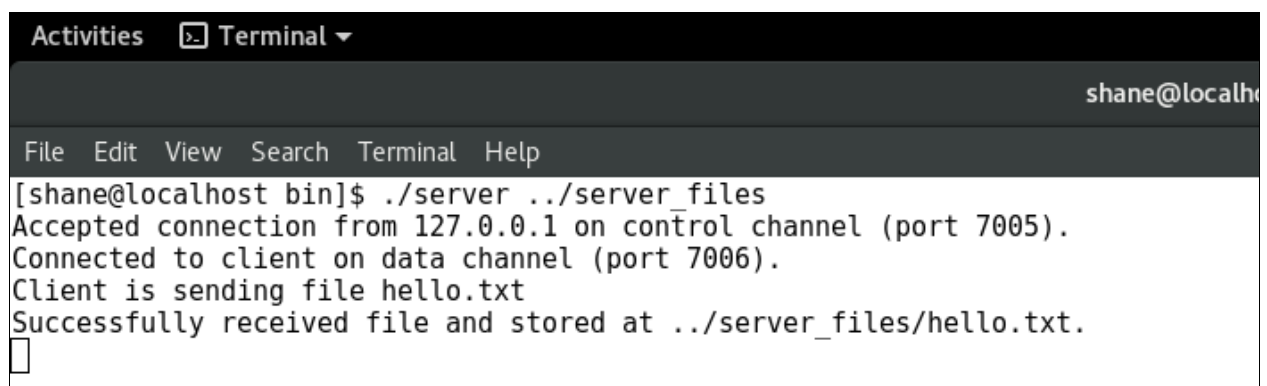
```

Figure 4: Server receives GET command for existing file



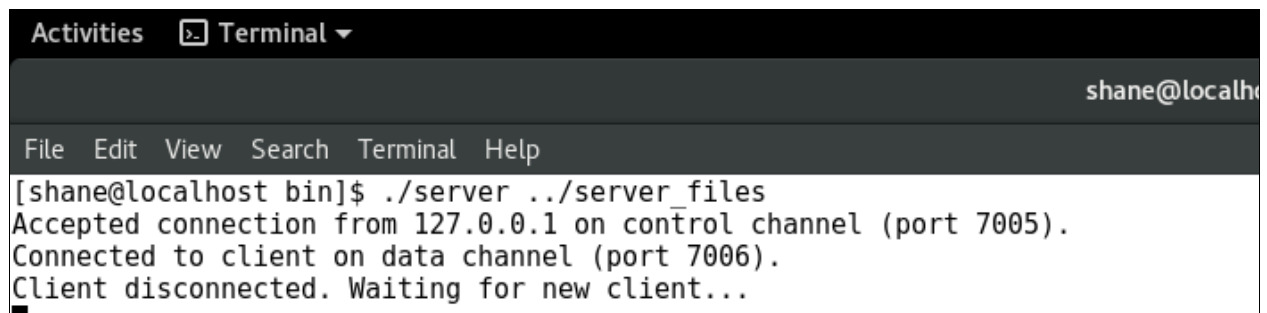
```
Activities Terminal ▾
shane@localhost
File Edit View Search Terminal Help
[shane@localhost bin]$ ./server ../server_files
Accepted connection from 127.0.0.1 on control channel (port 7005).
Connected to client on data channel (port 7006).
Attempting to send file non-existent...
Couldn't find file non-existent.
```

Figure 5: Server receives GET command for non-existent file



```
Activities Terminal ▾
shane@localhost
File Edit View Search Terminal Help
[shane@localhost bin]$ ./server ../server_files
Accepted connection from 127.0.0.1 on control channel (port 7005).
Connected to client on data channel (port 7006).
Client is sending file hello.txt
Successfully received file and stored at ../server_files/hello.txt.
```

Figure 6: Server receives SEND command



```
Activities Terminal ▾
shane@localhost
File Edit View Search Terminal Help
[shane@localhost bin]$ ./server ../server_files
Accepted connection from 127.0.0.1 on control channel (port 7005).
Connected to client on data channel (port 7006).
Client disconnected. Waiting for new client...
```

Figure 7: Client disconnects from server