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ANSWERS TO EVEN-NUMBERED EXERCISES

2. What happens if you transfer an executable program file in ASCII mode?

The file will be corrupted: Any bytes that match a `NEWLINE` will be altered, resulting in a program that will not execute properly.

4. How would you prevent a local user from logging in on a **vsftpd** server using her system username and password?

Put the following line in `/etc/vsftpd/vsftpd.conf`:

```
local_enable=NO
```

6. What is the difference between `cd` and `lcd` in `ftp`?

A `cd` command changes the remote working directory; an `lcd` command changes the local working directory.

8. Why is it advantageous to run **vsftpd** in a chroot jail?

Any program that listens for Internet connections is vulnerable to compromise. If a daemon that runs with **root** privileges is compromised, the entire system is compromised. Although the **vsftpd** daemon does not run with **root** privileges, a malicious user might still be able to use a local **root** exploit to gain **root** access. Running **vsftpd** in the restricted environment of a chroot jail makes it significantly less likely that a malicious user can compromise the system. Without **root** access, the malicious user can see only other files in the chroot jail, rendering an attack harmless.

