1. Get the version of OpenSSH the backdoored SSH service is based on.

```
(kali@ kali)-[~/Desktop/ssh-backdoor]
style="font-size: 150%;">(kali@ kali)-[~/Desktop/ssh-backdoor]
```

—\$ tar xvf openssh-6.3p1.tar.gz

```
backdoor-source/contrib/findssl.sh:# Search for static OpenSSL libraries and print versions
backdoor-source/contrib/suse/openssh.spec:# The version of x11-ssh-askpass to use
backdoor-source/contrib/suse/openssh.spec:Wersion:
backdoor-source/contrib/suse/openssh.spec:Source0:
backdoor-source/contrib/suse/openssh.spec:Source0:
backdoor-source/contrib/suse/openssh.spec:Source1:
x11-ssh-askpass-%{xversion}.tar.gz
backdoor-source/contrib/suse/openssh.spec:BuildRoot:
%{_tmppath}/openssh-%{version}-buildroot
backdoor-source/contrib/suse/openssh.spec:Requires:
openssh = %{version}
backdoor-source/contrib/suse/openssh.spec:OpenSSH is OpenBSD's rework of the last free version of
SSH, bringing it
backdoor-source/contrib/suse/openssh.spec:OpenSSH is OpenBSD's rework of the last free version of
SSH, bringing it
backdoor-source/contrib/suse/openssh.spec:- Removed accidental inclusion of --without-zlib-version-accepts.
```

 Download the specific OpenSSH version (6.3p1) from <a href="https://ftp.nluug.nl/security/OpenSSH/openssh-6.3p1.tar.gz">https://ftp.nluug.nl/security/OpenSSH/openssh-6.3p1.tar.gz</a> & untar the "original" OpenSSH service.

3. Use the "diff" command to compare the differences between the versions: We can use "diff-q" to see what files have been changed (auth.h, auth.c, auth-passwd.c)

4. Now let's look at the specific changes. We can see the backdoor\_hash is encrypted with md5. The comment gives us the part of the flag and what the range of characters are.

```
diff openssh-6.3p1 backdoor-source
diff '--color=auto' openssh-6.3p1/auth.c backdoor-source/auth.c
diff '--color=auto' openssh-6.3p1/auth.h backdoor-source/auth.h
215a217
diff '--color=auto' openssh-6.3p1/auth-passwd.c backdoor-source/auth-passwd.c
215a221,246
         return 0:
```

- 5. We can Bruteforce the possible 4 numbers and check them against the backdoor\_hash. This has been automated in the python script "solve.py".
- 6. Run solve.py & get the flag.