

Shawn Ziegler

Questions 1

Parts 1-6

User passwords:

User1: password

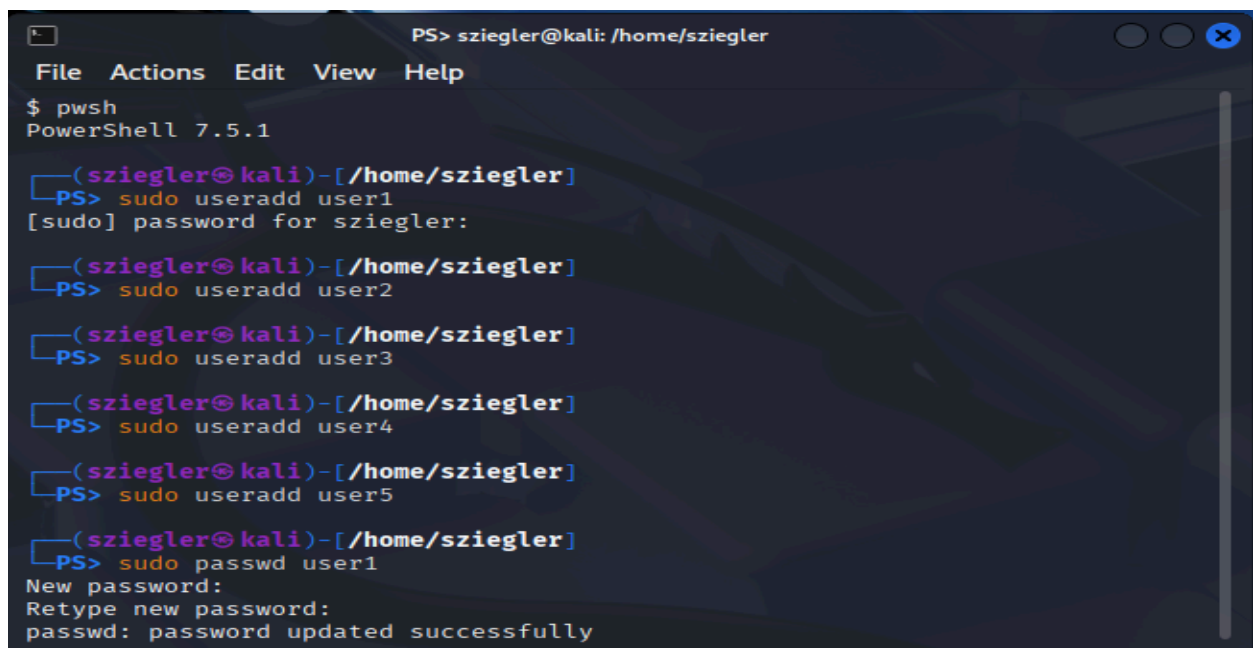
User2:1234

User3: password1234

User4: p@ssword1234

User5: 9a55w0rd

User6: #p@ssw0rd



```
PS> sziegler@kali: /home/sziegler
File Actions Edit View Help
$ pwsh
PowerShell 7.5.1
(sziegler@kali)-[/home/sziegler]
PS> sudo useradd user1
[sudo] password for sziegler:
(sziegler@kali)-[/home/sziegler]
PS> sudo useradd user2
(sziegler@kali)-[/home/sziegler]
PS> sudo useradd user3
(sziegler@kali)-[/home/sziegler]
PS> sudo useradd user4
(sziegler@kali)-[/home/sziegler]
PS> sudo useradd user5
(sziegler@kali)-[/home/sziegler]
PS> sudo passwd user1
New password:
Retype new password:
passwd: password updated successfully
```

```
PS> sziegler@kali: /home/sziegler
File Actions Edit View Help
(sziegler@kali)-[/home/sziegler]
└─PS> sudo useradd user6

(sziegler@kali)-[/home/sziegler]
└─PS> █
```

```
PS> sziegler@kali: /home/sziegler
File Actions Edit View Help
└─PS> sudo passwd user1
New password:
Retype new password:
passwd: password updated successfully

(sziegler@kali)-[/home/sziegler]
└─PS> sudo passwd user2
New password:
Retype new password:
passwd: password updated successfully

(sziegler@kali)-[/home/sziegler]
└─PS>

(sziegler@kali)-[/home/sziegler]
└─PS> sudo passwd user3
New password:
Retype new password:
passwd: password updated successfully

(sziegler@kali)-[/home/sziegler]
└─PS> sudo passwd user4
New password:
Retype new password:
passwd: password updated successfully
```

```
PS> sziegler@kali: /home/sziegler
File Actions Edit View Help

(sziegler@kali)-[/home/sziegler]
└─┬─ PS> sudo passwd user5
    │ New password:
    │ Retype new password:
    │ passwd: password updated successfully
    └─┬─ (sziegler@kali)-[/home/sziegler]
        │ └─┬─ PS> sudo passwd user6
            │ │ New password:
            │ │ Retype new password:
            │ │ Sorry, passwords do not match.
            │ │ passwd: Authentication token manipulation error
            │ │ passwd: password unchanged
            └─┬─ (sziegler@kali)-[/home/sziegler]
                │ └─┬─ PS> sudo passwd user6
                    │ │ New password:
                    │ │ Retype new password:
                    │ │ passwd: password updated successfully
                    └─┬─ (sziegler@kali)-[/home/sziegler]
                        │ └─┬─ PS> █
                            │
```

Question 2.

```
PS> sziegler@kali: /home/sziegler
File Actions Edit View Help
$ pwsh
PowerShell 7.5.1

(sziegler@kali)-[/home/sziegler]
└─┬ PS> sudo cat /etc/shadow | grep 'user[1-6]' > ~/sziegler.hash
  [sudo] password for sziegler:

(sziegler@kali)-[/home/sziegler]
└─┬ PS> █
```

```
sziegler@kali: ~  
File Actions Edit View Help  
/bin/ejabberd2john /bin/openssl2john /sbin/racf2john  
/bin/electrum2john /bin/openssl2john /sbin/rar2john  
/bin/encfs2john /bin/padlock2john /sbin/uaf2john  
/bin/enpass2john /bin/pcap2john /sbin/vncpcap2john  
/bin/ethereum2john /bin/pdf2john /sbin/wpapcap2john  
/bin/filezilla2john /bin/pem2john /sbin/zip2john  
/bin/geli2john /bin/pfx2john  
(sziegler@kali)-[~]  
└─$ sudo tail -6 /etc/shadow > szieg0004.hash  
[sudo] password for sziegler: legler  
(sziegler@kali)-[~]  
└─$ cat szieg004.hash  
user1:$y$j9T$GCaEF3bGd1Ud6FZ9nXrJH/$KupTZVU/xoxPGgzoN44Wlb9qU/0wcWbq4ZZNgrLkW  
63:20366:0:99999:7:::  
user2:$y$j9T$pievtqHfZxEptf5QFF.Ns1$zk8M3pSxFku19aRphiDM0Z63Ie3wdousJVex9SgSA  
61:20366:0:99999:7:::  
user3:$y$j9T$Iip4sH3fQLBgS6cPm2YHE/$VuZ/fsy7MTnaUlpCKHxC28rII2bqfoOn2AIgC6gf  
r0:20366:0:99999:7:::  
user4:$y$j9T$KypBX188abqx8nYeGd0j41$ZIGKJ3y0Qpc8nIZZUAW7eWnjzJo7PLt/VM0ez/Wnv  
0C:20366:0:99999:7:::  
user5:$y$j9T$Ivx1NCDSL.J.YxpZ3pqLe0$ga7QePoH8qav3prEWD20RmL26cn0KiCHksNnQMu23  
UA:20366:0:99999:7:::  
user6:$y$j9T$LucmhDxFX1sgGa1IbUycc/$eRnI8cqRBGB3vTZ4E5THjy1l7Jt5yTSeqUXD3GKTe  
61:20366:0:99999:7:::  
(sziegler@kali)-[~]  
└─$
```

Question 3.

```
sziegler@kali: ~  
File Actions Edit View Help  
└─$ sudo tail -6 /etc/shadow > szieg0004.hash  
[sudo] password for sziegler:iegl  
(sziegler@kali)-[~]  
└─$ cat szieg004.hash  
user1:$y$j9T$GCaEF3bGd1Ud6FZ9nXrJH/$KupTZVU/xoxPGgzON44Wlb9qU/0wcWbq4ZZNgrLkW  
63:20366:0:99999:7:::  
user2:$y$j9T$pievtqHfZxEPtf5QFF.Ns1$zk8M3pSxFku19aRphiDM0Z63Ie3wdousJVex9SgSA  
61:20366:0:99999:7:::  
user3:$y$j9T$Iip4sH3fQlBgS6cPm2YHE/$VuZ/fsy7MTnaUlpCKHxC28rII2bqfo0n2AIgC6gf  
r0:20366:0:99999:7:::  
user4:$y$j9T$KypBX188abqx8nYeGd0j41$ZIGKJ3y0Qpc8nIZZUAW7eWnjzJo7PLt/VM0ez/Wnv  
OC:20366:0:99999:7:::  
user5:$y$j9T$IvxlNCDSL.J.YxpZ3pqLe0$ga7QePoH8qav3prEWD20RmL26cn0KiCHksNnQMu23  
UA:20366:0:99999:7:::  
user6:$y$j9T$LucmhDxFX1sgGa1IbUycc/$eRnI8cqRBGB3vTZ4E5THjy1l7Jt5yTSeqUXD3GKTe  
61:20366:0:99999:7:::  
(sziegler@kali)-[~]  
└─$ john --wordlist=rockyou.txt.gz szieg004.hash  
Using default input encoding: UTF-8  
Loaded 1 password hash (HMAC-SHA256 [password is key, SHA256 256/256 AVX2 8x]  
)  
Will run 8 OpenMP threads  
fopen: rockyou.txt.gz: No such file or directory  
(sziegler@kali)-[~]  
└─$
```

1 user

Extra credit

```
PS> sziegler@kali: /home/sziegler
File Actions Edit View Help

(sziegler@kali)-[/home/sziegler]
└─┬─ PS> echo "5f4dcc3b5aa765d61d8327deb882cf99" > extracredit.txt

(sziegler@kali)-[/home/sziegler]
└─┬─ PS> echo "63a9f0ea7bb98050796b649e85481845" >> extracredit.txt

(sziegler@kali)-[/home/sziegler]
└─┬─ PS> sudo john --format=raw-md5 --wordlist=/rockyou.txt extracredit.txt
Using default input encoding: UTF-8
Loaded 2 password hashes with no different salts (Raw-MD5 [MD5 256/256 AVX2 8
x3])
Warning: no OpenMP support for this hash type, consider --fork=8
fopen: /rockyou.txt: No such file or directory

(sziegler@kali)-[/home/sziegler]
└─┬─ PS> █
```