

Question 1a

PID: 25840 (zsh)

Parent: 25789 (tcsh)

Parent: 25788 (sshd)

Parent: 25780 (sshd)

Parent: 2635 (sshd)

Parent: 1 (init)

Question 1b

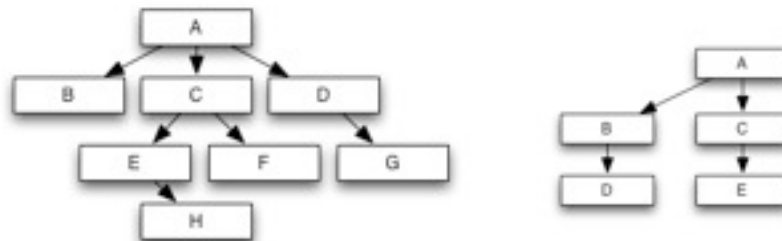
OpenSSH allows access from remote locations, so if a suitable error is discovered, the system can be compromised from anywhere in the world.

Question 1c**Question 1d****Question 1e****Question 2a**

Child processes: 7

Question 2b

Child processes: 4

**Question 3**

Using Copy On Write, allocated memory is transparently shared between the parent and child process until one of them tries to modify it, at which point, the memory is copied. This saves memory and time since often a significant portion of the memory used by a program will remain unchanged between parent and child processes.