# Solution M3 (@ivandk)

*Please fill in your* ***SoftUni username*** *above. Name the file* ***M3-Solution****, prepare a compressed archive, and upload it to the* ***SoftUni*** *site*

### Virtual Machine #1

[https:\/\/courses.zahariev.pro\/check.php?20250327211314n8XoIrPTcZ](https://courses.zahariev.pro/check.php?20250327211314n8XoIrPTcZ)

**1**

**[ivan@almalinux ~]$ cp /etc/services ~/services**

**2**

**[ivan@almalinux ~]$ grep '^#' services > services\_comments.txt**

**3**

**[ivan@almalinux ~]$ grep -v '^#' services > services\_wo\_comments.txt**

**4**

**[ivan@almalinux ~]$ grep 'udp' services\_wo\_comments.txt > services\_udp.txt**

**5**

**[ivan@almalinux ~]$ vi services\_wo\_comments.txt**

**6**

**/blackjack**

**7**

**dG**

**8**

**:w ~/well-known-ports.txt**

**9**

**:q!**

**10**

**[ivan@almalinux ~]$ sed '1,100s#/#-#' well-known-ports.txt > 100-well-known-ports.txt**

**11**

**[ivan@almalinux ~]$ cat <<EOF > doc1.txt**

**10-IT-HQ**

**20-Accounting-HQ**

**30-Help Desk-Remote**

**40-Sales-HQ**

**EOF**

**12**

**[ivan@almalinux ~]$ cat <<EOF > doc2.txt**

**10-B.Thomas**

**20-J.Foster**

**30-G.Smith**

**40-F.Hudson**

**EOF**

**13**

**[ivan@almalinux ~]$ join -t '-' -j 1 doc1.txt doc2.txt > doc3.txt**

**14**

**[ivan@almalinux ~]$ cut -d '-' -f3 doc3.txt | sort -u > locations.txt**

**15**

**[ivan@almalinux ~]$ cut -d '-' -f3 doc3.txt | sort -u | wc -l > locations-count.txt**

**16**

**[ivan@almalinux ~]$ find /etc -type f -size -200c | sort > small-etc-files.txt**