Решения на задачи за упражнение ОС

**02\_comands**

**02-a-5000 - cp /etc/services ~**

**02-a-5200 - ln -s /etc/passwd passwd\_symlink**

**02-a-5400 -find /etc -type f**

**02-a-5401 - cat ~/services | head -n 5**

**02-a-5402 - find /etc -maxdepth 2 -mindepth 2 -type f**

**02-a-5403 - find /etc -maxdepth 1 -type d**

**02-a-5500 - find /etc -maxdepth 1 -type d | tail -n 10**

**02-a-5501 - find ~ -type f -size +42c**

**02-a-5504 - find /tmp/ -type f -group students -perm o=w**

**02-a-5505 - find ~ -newer ~/practice/01/f1**

**02-a-5506 - find ~ -newer ~/practice/01/f3 | xargs rm -i**

**02-a-6000 - find /bin/ -perm 777**

**02-a-8000 - find /etc/ -type f -readable**

**02-a-9000 - find /etc/ -type f –readable | rev | cut –d ‘/’ –f1 | rev | grep ^c (permissions denied)**

**02-a-9500 - find /etc/ -type f | xargs wc -l**

**02-b-4000-find /etc/ -type f -printf '%s%p\n' | sort -nr | tail -n 1 | cut -complement -d '/' -f 1 | cp…**

**03\_pipes**

**03-a-0200.txt - cat /etc/passwd | sort -t : -k3**

**03-a-0201.txt - cat /etc/passwd | sort -t : -k3 -n**

**03-a-0210.txt - cat /etc/passwd | cut -d ':' -f 1,5**

**03-a-0211.txt - cat /etc/passwd | cut -c 2-5**

**03-a-0212.txt - cat /etc/passwd | cut -d ':' -f 5,6 | sed -E 's/(,){4}[СИКН]{2}:/-/g'**

**03-a-0213.txt - cat /etc/passwd | cut -d '/' -f2**

**03-a-1500.txt - cat /etc/passwd | wc -cml**

**03-a-2000.txt –**

**cat /etc/passwd | tail –n 12 / head -c 26 / head –n -4 / tail –n 17**

**cat /etc/passwd | head -n 151 | tail -n 1**

**cat /etc/passwd | head -n 13 | tail -n 1 | tail -c 5**

**03-a-3000.txt**

**- df -P > ~/df-P\_Result -> cat df-P\_Result | tail -n +2 | sed -r 's/( )+/ /g' | cut -d ' ' -f2 | sort -n**

**- cat df-P\_Result | tail +2 | awk '{print $2,$0}' | sort -n | sed 's/[0-9]\* //'**

**03-a-3100.txt - cat /etc/passwd | cut -d '/' -f 4 | tr -d ':' | egrep --color '^s[0-9]+' > ~/users**

**03-a-3500.txt - cat /etc/passwd | cut -d ':' -f 5 | egrep -o '^[а-Я]\* [а-Я]\*' | tr а-я А-Я**

**03-a-5000.txt - cat /etc/passwd | egrep --color -B 2 -A 3 ^s62384 | head -n 1**

**03-a-5001.txt - cat /etc/passwd | cut -d '/' -f5,6 | grep -v ^bin/bash | awk 'END{print NR}' ||| grep -v /bin/bash$ /etc/passwd | awk 'END{print NR}' Ква е разликата ??**

**03-a-5002.txt - cat /etc/passwd | cut -d ':' -f5 | sed -E 's/,{4}[СИКН]{2}//g' | awk 'length($2) > 6 {print}'**

**03-a-5003.txt - cat /etc/passwd | cut -d ':' -f5 | sed -E 's/,{4}[СИКН]{2}//g' | awk 'length($2) < 8'**

**03-a-5004.txt - grep -o "[а-Я]\* [а-Я]\*" /etc/passwd | awk 'length($2) < 8' | xargs -I {} grep {} /etc/passwd**

**03-a-6000.txt**

* **awk 'END{print NR}' emp.data – брой редове**
* **awk 'NR == 3' emp.data отпечатва 3ти ред**
* **awk '{print $3} ' emp.data**
* **awk 'END{print $3} ' emp.data**
* **awk '$5 != "" {print $0}' emp.data**
* **awk '$3 > 4 {print $0}' emp.data**
* **awk '{sum += NF} END{print sum}' emp.data – вади общия брой полета от вс редове**
* **awk '$1 == "Beth" {sum += 1} END{print sum}' emp.data**
* **awk 'BEGIN{max = $3} $3 > max {max = $3; line = $0} END{print max, line}' emp.data**
* **awk 'NF > 1' emp.data**
* **awk -b 'length > 17' emp.data**
* **awk -b '{print NF, $0}' emp.data**
* **awk -b '{print $2, $1}' emp.data**
* **awk -b '{print NR, $2, $3}' emp.data/-v/**
* **tolower/toupper**
* **substr(от стринг/започващо от/дължина)**

**03-b-0300.txt – awk -F: '$1 == "s62384" {print $4}' /etc/passwd**

**03-b-3400.txt - egrep -c "#" /etc/services**

**03-b-3500.txt – find /bin/ -name "\*.sh" | uniq -c**

**03-b-3600.txt - find . -type d -perm 000 ???**

**03-b-4000.txt**

* **wc file1 file2 file3**
* **wc –lc file1 file2 file3**
* **wc -l file1 file2 file3 | awk 'END{print $1}'**

**03-b-4001.txt**

**– awk '{print toupper($0)}' ~/dir5/file2 > ~/dir5/file2 ??? защо не мога да презапиша във файла**

**-** **awk -i inplace '{print toupper($0)}' ~/dir5/file2 – Това ‚i‘ вкарва библиотека в случая ‚inplace‘ която ни позволява презаписването във файл**

**03-b-4002.txt - sed -i 's/1//g' ~/dir5/file3**

**03-b-4003.txt - cat file\* |uniq -c**

**03-b-4004.txt - cat ~/dir5/file{1,2,3} > ~/dir5/file4**

**03-b-4005.txt - awk '{print tolower($0)}' ~/dir5/file2 >> ~/dir5/file1**

**03-b-5200.txt - tr -d a < /etc/passwd | wc -c**

**03-b-5300.txt - cut -d: -f5 < /etc/passwd | cut -d, -f1 | tr -d ' ' | sed -r 's/(.)/\1\n/g' | sort |uniq -c**

**03-b-5400.txt - grep -v ов /etc/passwd**

**03-b-6100.txt - cut -d: -f3 < /etc/passwd | awk 'NR >= 28 && NR <= 43 {print substr($0,length,1)}'**

**03-b-6700.txt - find /tmp/ -readable | xargs ls -l**

**03-b-6900.txt - find ~ -mtime -5 -printf '%f %C@\n' | sort -nr -t' ' -k2,2 | cut -d' ' -f1 | head -10**

**03-b-7000.txt -find /usr/include/ -type f -name "\*[.c,.h]" | xargs wc -l | awk 'END{print $1, NR-1}'**

**03-b-7500.txt - cat /etc/services | tr -s '\t' | tr -s ' ' | tr '\t' '\n' | tr ' ' '\n' | sort | uniq -c**

**03-b-8000.txt - awk -F':' '$4==504' /srv/fmi-os/exercises/data/mypasswd.txt > ~/si.txt**

**03-b-8500.txt - awk -F':' '$1=="students" {print "Hallo,", $0, "- i am here"} {print "Hallo,",$0}' /etc/group**

**03-b-8600.txt - find /usr/ -name "\*.sh" | xargs -I {} awk 'NR == 1{print}' {} | tr -d ' ' | sort |uniq -c**

**03-b-8700.txt - cat /etc/passwd | cut -d':' -f4 | sort | uniq -c | sort -n | tail -5 | awk '{print $2}' | xargs -I {} grep --color {} /etc/group**

**03-b-9000.txt - find ~/ -cmin -500 -printf '%h/%f %C@\n'**

**03-b-9051.txt**

**- grep ",2008" ~/population.csv | awk -F',' '{sum += $NF} END{print sum}'**

**03-b-9052.txt - grep "Bulgaria" ~/population.csv | awk -F',' 'BEGIN{max = $NF; year = $3} $NF > max {max = $NF; year = $3} END{print year,max}'**

**03-b-9053.txt - grep ",2016" ~/population.csv | awk -F',' '{print $1,$NF}' | sort -n -k2| awk 'NR == 1{print $0} END{print}'**

**03-b-9054.txt - grep ",1969" ~/population.csv | awk -F',' '{print $1,$NF}' | sort -n -k2 | awk 'NR == 43 {print $0}'**

**03-b-9102.txt - find ~/songs | cut -d'-' -f2 | cut -d'.' -f1**

**03-b-9103.txt - find ~/songs | cut -d'-' -f2 | cut -d'(' -f1 | sed 's/ /\_/g' | sed …**

**03-b-9104.txt**

**03-b-9105.txt**

**03-b-9106.txt**

**03-b-9200.txt**

**03-b-9300.txt**

**03-b-9400.txt**