

SISTEM OPERASI

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Cloud Shell Editor
(sacred-result-436003-r5) x +
atunsema@cloudshell:~$ (sacred-result-436003-r5) ls -l > baru
atunsema@cloudshell:~$ (sacred-result-436003-r5) cat baru
total 36
-rw-rw-r-- 1 atunsema atunsema 0 Sep 28 04:24 baru
-rw-rw-r-- 1 atunsema atunsema 1909 Sep 28 03:43 baru.urut
-rw-rw-r-- 1 atunsema atunsema 1909 Sep 28 03:28 filebaru.txt
-rw-rw-r-- 1 atunsema atunsema 19 Sep 24 07:18 index.php
dewerw-rw 2 atunsema atunsema 4096 Sep 28 02:44 latihan1
-rw-rw-r-- 1 atunsema atunsema 912 Sep 28 03:03 README-cloudshell.txt
-rw-rw-r-- 1 atunsema atunsema 59 Sep 28 02:44 readerror.txt
dewerw-rw 2 atunsema atunsema 4096 Sep 24 07:39 nama
-rw-rw-r-- 1 atunsema atunsema 11 Sep 24 07:51 test.txt
-rw-rw-r-- 1 atunsema atunsema 8 Sep 24 07:52 test.txt
atunsema@cloudshell:~$ (sacred-result-436003-r5)
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Cloud Shell Editor
(sacred-result-436003-r5) x +
atunsema@cloudshell:~$ (sacred-result-436003-r5) cat /etc/passwd >>baru
atunsema@cloudshell:~$ (sacred-result-436003-r5) cat baru
total 36
-rw-rw-r-- 1 atunsema atunsema 0 Sep 28 04:24 baru
-rw-rw-r-- 1 atunsema atunsema 1909 Sep 28 03:43 baru.urut
-rw-rw-r-- 1 atunsema atunsema 1909 Sep 28 03:28 filebaru.txt
-rw-rw-r-- 1 atunsema atunsema 19 Sep 24 07:18 index.php
dewerw-rw 2 atunsema atunsema 4096 Sep 28 02:44 latihan2
-rw-rw-r-- 1 atunsema atunsema 912 Sep 28 03:03 README-cloudshell.txt
-rw-rw-r-- 1 atunsema atunsema 59 Sep 28 02:44 readerror.txt
dewerw-rw 2 atunsema atunsema 4096 Sep 24 07:39 nama
-rw-rw-r-- 1 atunsema atunsema 11 Sep 24 07:51 test.txt
-rw-rw-r-- 1 atunsema atunsema 8 Sep 24 07:52 test.txt
atunsema@cloudshell:~$ (sacred-result-436003-r5)
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mail Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
systemd-networkd:x:101:102:systemd Network Management,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:102:103:systemd Resolver,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:104::/nonexistent:/usr/sbin/nologin
syslog:x:104:106::/home/syslog:/usr/sbin/nologin
dnsmasq:x:105:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
redis:x:106:112:/var/lib/redis:/usr/sbin/nologin
sbd:x:107:65534::/run/sbd:/usr/sbin/nologin
lxc-dnsmasq:x:108:113:LXC dnsmasq,,,:/var/lib/lxc:/usr/sbin/nologin
postgres:x:109:115:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
atunsema:x:1000:1000:/home/atunsema:/bin/bash
atunsema@cloudshell:~$ (sacred-result-436003-r5)
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```
atunsema@cloudshell:~$ (sacred-result-436003-r5) $ sort < baru
_apt:x:100:45524:/:/nonexistent:/usr/sbin/nologin
atunsema:x:1000:1000:/:/home/atunsema:/bin/bash
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
bin:x:2:2:bin:/usr/sbin/nologin
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
dnsmasq:x:105:65524:dnsmasq,../var/lib/misc:/usr/sbin/nologin
dwwwrwx:x:2:atunsema:atunsema:4096:Sep 24 07:39:sema
dwwwrwx:x:2:atunsema:atunsema:4096:Sep 28 02:44:latihan2
games:x:5:60:games:/usr/games:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
list:x:38:38:MailList Manager:/var/list:/usr/sbin/nologin
lpk:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
lxc-dnsmasq:x:108:112:LXC dnsmasq,../var/lib/lxc:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
messagebus:x:103:104:/:/nonexistent:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
postgres:x:109:113:PostgreSQL administrator,../var/lib/postgresql:/bin/bash
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
redis:x:106:112:../var/lib/redis:/usr/sbin/nologin
root:x:0:0:root:/root:/bin/bash
"rw-rw-r--" 1 atunsema atunsema 913 Sep 28 03:03 README-cloudshell.txt
"rw-rw-r--" 1 atunsema atunsema 0 Sep 28 04:24 baru
"rw-rw-r--" 1 atunsema atunsema 11 Sep 24 07:51 test.txt
"rw-rw-r--" 1 atunsema atunsema 1909 Sep 28 03:28 filebaru.txt
"rw-rw-r--" 1 atunsema atunsema 1969 Sep 28 03:43 baru.urut
"rw-rw-r--" 1 atunsema atunsema 19 Sep 24 07:18 index.php
"rw-rw-r--" 1 atunsema atunsema 59 Sep 28 02:44 mdircerror.txt
"rw-rw-r--" 1 atunsema atunsema 59 Sep 28 02:44 mdircerror.txt
"rw-rw-r--" 1 atunsema atunsema 8 Sep 24 07:52 test.txt
shhd:x:107:65524:/:/run/shhd:/usr/sbin/nologin
sync:x:4:65524:sync:/bin:/bin/sync
syslog:x:104:106:/:/home/syslog:/usr/sbin/nologin
systemd-network:x:101:102:systemd Network Management,../run/systemd:/usr/sbin/nologin
systemd-resolve:x:102:103:systemd Resolver,../run/systemd:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
total 36
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
atunsema@cloudshell:~$ (sacred-result-436003-r5) $
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```
atunsema@cloudshell:~$ (sacred-result-436003-r5) $ sort < baru > baru.urut
atunsema@cloudshell:~$ (sacred-result-436003-r5) $ cat baru
total 36
"rw-rw-r--" 1 atunsema atunsema 0 Sep 28 04:24 baru
"rw-rw-r--" 1 atunsema atunsema 1969 Sep 28 03:43 baru.urut
"rw-rw-r--" 1 atunsema atunsema 1909 Sep 28 03:28 filebaru.txt
"rw-rw-r--" 1 atunsema atunsema 19 Sep 24 07:18 index.php
dwwwrwx:x:2:atunsema:atunsema:4096:Sep 28 02:44:latihan2
"rw-rw-r--" 1 atunsema atunsema 913 Sep 28 03:03 README-cloudshell.txt
"rw-rw-r--" 1 atunsema atunsema 59 Sep 28 02:44 mdircerror.txt
dwwwrwx:x:2:atunsema:atunsema:4096:Sep 24 07:39:sema
"rw-rw-r--" 1 atunsema atunsema 11 Sep 24 07:51 test.txt
"rw-rw-r--" 1 atunsema atunsema 8 Sep 24 07:52 test.txt
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65524:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lpk:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:MailList Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:45524:/:/nonexistent:/usr/sbin/nologin
systemd-network:x:101:102:systemd Network Management,../run/systemd:/usr/sbin/nologin
systemd-resolve:x:102:103:systemd Resolver,../run/systemd:/usr/sbin/nologin
messagebus:x:103:104:/:/nonexistent:/usr/sbin/nologin
syslog:x:104:106:/:/home/syslog:/usr/sbin/nologin
dnsmasq:x:105:65524:dnsmasq,../var/lib/misc:/usr/sbin/nologin
redis:x:106:112:../var/lib/redis:/usr/sbin/nologin
shhd:x:107:65524:/:/run/shhd:/usr/sbin/nologin
lxc-dnsmasq:x:108:112:LXC dnsmasq,../var/lib/lxc:/usr/sbin/nologin
postgres:x:109:113:PostgreSQL administrator,../var/lib/postgresql:/bin/bash
atunsema:x:1000:1000:/:/home/atunsema:/bin/bash
atunsema@cloudshell:~$ (sacred-result-436003-r5) $
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Cloud Shell Editor
(sacred-result-436003-r5) x +

atunsema@cloudshell:~$ (sacred-result-436003-r5)$ mkdir latihan2
mkdir: cannot create directory 'latihan2': File exists
atunsema@cloudshell:~$ (sacred-result-436003-r5)$ mkdir latihan2
mkdir: cannot create directory 'latihan2': File exists
atunsema@cloudshell:~$ (sacred-result-436003-r5)$ mkdir latihan2 2> rmerror.txt
atunsema@cloudshell:~$ (sacred-result-436003-r5)$ cat rmerror.txt
cat: rmerror: No such file or directory
cat: .: Is a directory
cat: txt: No such file or directory
atunsema@cloudshell:~$ (sacred-result-436003-r5)$ cat rmerror.txt
mkdir: cannot create directory 'latihan2': File exists
atunsema@cloudshell:~$ (sacred-result-436003-r5)$ mkdir latihan2 2> rmerror.txt
atunsema@cloudshell:~$ (sacred-result-436003-r5)$ cat rmerror.txt
mkdir: cannot create directory 'latihan2': File exists
atunsema@cloudshell:~$ (sacred-result-436003-r5)$
```

```
Cloud Shell Editor
(sacred-result-436003-r5) x +

atunsema@cloudshell:~$ (sacred-result-436003-r5)$ cat /etc/passwd
total 36
"rw-rw-r--" 1 atunsema atunsema 0 Sep 28 04:24 bare
"rw-rw-r--" 1 atunsema atunsema 1940 Sep 28 03:43 bare.usuk
"rw-rw-r--" 1 atunsema atunsema 1909 Sep 28 03:28 filebaru.txt
"rw-rw-r--" 1 atunsema atunsema 19 Sep 24 07:18 index.php
dewarw-rw-r 2 atunsema atunsema 4096 Sep 28 03:44 latihan2
"rw-rw-r--" 1 atunsema atunsema 919 Sep 28 03:03 RM2IMG-cloudshell.txt
"rw-rw-r--" 1 atunsema atunsema 59 Sep 28 03:44 rmerror.txt
dewarw-rw-r 2 atunsema atunsema 4096 Sep 24 07:39 rama
"rw-rw-r--" 1 atunsema atunsema 11 Sep 24 07:51 test.txt
"rw-rw-r--" 1 atunsema atunsema 0 Sep 24 07:52 test.txt
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Maillog:/var/lib/mail:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534:./nonexistent:/usr/sbin/nologin
systemd-network:x:101:102:systemd Network Management,.,./run/systemd:/usr/sbin/nologin
systemd-resolve:x:102:103:systemd Resolver,.,./run/systemd:/usr/sbin/nologin
messagebus:x:103:104:./nonexistent:/usr/sbin/nologin
splog:x:104:104:/home/spylog:/usr/sbin/nologin
dnsmasq:x:105:65534:dnsmasq,.,./var/lib/dnsmasq:/usr/sbin/nologin
redis:x:106:112:./var/lib/redis:/usr/sbin/nologin
shhd:x:107:65534:./run/shhd:/usr/sbin/nologin
lxc-dnsmasq:x:108:113:132: dnsmasq,.,./var/lib/lxc:/usr/sbin/nologin
postgres:x:109:115:PostgreSQL administrator,.,./var/lib/postgresql:/bin/bash
atunsema:x:1000:1000:/home/atunsema:/bin/bash
60
101
2144
atunsema@cloudshell:~$ (sacred-result-436003-r5)$
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```
Cloud Shell Editor
(sacred-result-436003-r5) x +
atunsema@cloudshell:~ (sacred-result-436003-r5) $ cat /etc/passwd
total 26
-rw-rw-r-- 1 atunsema atunsema 0 Sep 28 04:24 bare
-rw-rw-r-- 1 atunsema atunsema 1960 Sep 28 03:43 bare.urub
-rw-rw-r-- 1 atunsema atunsema 1909 Sep 28 03:28 filebare.txt
-rw-rw-r-- 1 atunsema atunsema 19 Sep 24 07:18 index.php
dewerwew-x 2 atunsema atunsema 4096 Sep 28 03:44 latihani
-rw-rw-r-- 1 atunsema atunsema 912 Sep 28 03:03 README-cloudshell.txt
-rw-rw-r-- 1 atunsema atunsema 59 Sep 28 03:44 sendirexer.txt
dewerwew-x 2 atunsema atunsema 4096 Sep 24 07:29 oema
-rw-rw-r-- 1 atunsema atunsema 11 Sep 24 07:51 test.txt
-rw-rw-r-- 1 atunsema atunsema 8 Sep 24 07:52 test.txt
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Maillog List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534:/nonexistent:/usr/sbin/nologin
systemd-networkd:x:101:102:systemd Network Management,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:102:103:systemd Resolver,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:104:/nonexistent:/usr/sbin/nologin
sblog:x:104:106:/home/sblog:/usr/sbin/nologin
doomax:x:105:65534:doomax,,:/var/lib/bsd:/usr/sbin/nologin
redis:x:106:112:/var/lib/redis:/usr/sbin/nologin
shhd:x:107:65534:/run/shhd:/usr/sbin/nologin
lsw-doomax:x:108:113:132: doomax,,:/var/lib/bsd:/usr/sbin/nologin
postgres:x:109:115:PostgreSQL administrator,,:/var/lib/postgresql:/bin/bash
atunsema:x:1000:1000:/home/atunsema:/bin/bash
40 101 2144
atunsema@cloudshell:~ (sacred-result-436003-r5) $
```

```
Cloud Shell Editor
(sacred-result-436003-r5) x +
atunsema@cloudshell:~ (sacred-result-436003-r5) $ cat > hello.txt
dog cat
cat duck
dog chicken
chicken cat
dog duck atunsema@cloudshell:~ (sacred-result-436003-r5) $ cat hello.txt
dog cat
cat duck
dog chicken
chicken cat
dog duck atunsema@cloudshell:~ (sacred-result-436003-r5) $ cat hello.txt | sort | uniq
cat duck
chicken cat
dog cat
dog chicken
dog duck
atunsema@cloudshell:~ (sacred-result-436003-r5) $ cat hello.txt | grep "dog" | grep -v "cat"
dog chicken
dog duck
atunsema@cloudshell:~ (sacred-result-436003-r5) $
```