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KELAS : C

MODUL 8

Stat.c

```
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# clear
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# gcc stat.c
stat.c: In function 'main':
stat.c:19:26: warning: format '%d' expects argument of type 'int', but argument 2 has type '__blksize_t {aka long int}' [-Wformat=]
printf("Block size: %d\n", file.st_blksize);
                         ^
                         %ld
stat.c:20:31: warning: format '%d' expects argument of type 'int', but argument 2 has type '__blkcnt_t {aka long int}' [-Wformat=]
printf("Block allocated: %d\n", file.st_blocks);
                              ^
                              %ld
stat.c:21:26: warning: format '%d' expects argument of type 'int', but argument 2 has type '__ino_t {aka long unsigned int}' [-Wformat=]
printf("Inode no. : %d\n", file.st_ino);
                         ^
                         %ld
stat.c:24:26: warning: format '%d' expects argument of type 'int', but argument 2 has type '__off_t {aka long int}' [-Wformat=]
printf("File size : %d bytes\n", file.st_size);
                         ^
                         %ld
stat.c:25:29: warning: format '%d' expects argument of type 'int', but argument 2 has type '__nlink_t {aka long unsigned int}' [-Wformat=]
printf("No. of links : %d\n", file.st_nlink);
                            ^
                            %ld
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# ./a.out stat.c
User id : 1000
Group id: 1000
Block size: 4096
Block allocated: 8
Inode no. : 941296
Last accessed : Sat Nov 30 22:30:01 2019
Last modified : Tue Nov 19 13:38:19 2019
File size : 1519 bytes
No. of links : 1
Permission : -rw-r--r--
File type : Regular
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents#
```

Source code stat.c

```
GNU nano 2.9.3 stat.c
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
#include <sys/stat.h>
int main(int argc, char*argv[]){
    struct stat
    file; int n;
    if (argc != 2)
    {
        printf("Usage: ./a.out <filename>\n"); exit(-1);
    }
    if ((n = stat(argv[1], &file)) == -1)
    {
        perror(argv[1]);
        exit(-1);
    }
    printf("User id : %d\n", file.st_uid);
    printf("Group id: %d\n", file.st_gid);
    printf("Block size: %d\n", file.st_blksize);
    printf("Block allocated: %d\n", file.st_blocks);
    printf("Inode no. : %d\n", file.st_ino);
    printf("Last accessed : %s", ctime(&(file.st_atime)));
    printf("Last modified : %s", ctime (&(file.st_mtime)));
    printf("File size : %d bytes\n", file.st_size);
    printf("No. of links : %d\n", file.st_nlink);
    printf("Permission : ");
    printf( (S_ISDIR(file.st_mode)) ? "d" : "-");
    printf( (file.st_mode & S_IRUSR) ? "r" : "-");
    printf( (file.st_mode & S_IWUSR) ? "w" : "-");
    printf( (file.st_mode & S_IXUSR) ? "x" : "-");
    printf( (file.st_mode & S_IRGRP) ? "r" : "-");
    printf( (file.st_mode & S_IWGRP) ? "w" : "-");
    printf( (file.st_mode & S_IXGRP) ? "x" : "-");
    printf( (file.st_mode & S_IROTH) ? "r" : "-");
    printf( (file.st_mode & S_IWOTH) ? "w" : "-");
    printf( (file.st_mode & S_IXOTH) ? "x" : "-");
}
```

```
GNU nano 2.9.3 stat.c

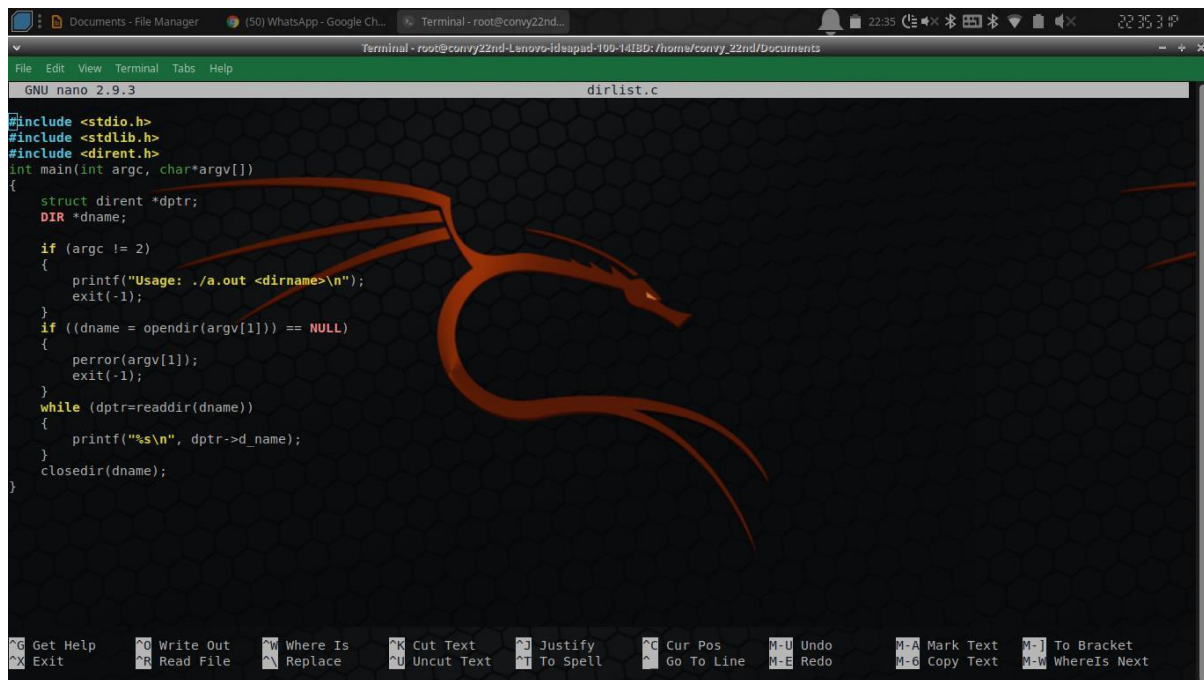
printf("User id : %d\n", file.st_uid);
printf("Group id : %d\n", file.st_gid);
printf("Block size: %d\n", file.st_blksize);
printf("Block allocated: %d\n", file.st_blocks);
printf("Inode no. : %d\n", file.st_ino);
printf("Last accessed : %s", ctime(&(file.st_atime)));
printf("Last modified : %s", ctime(&(file.st_mtime)));
printf("File size : %d bytes\n", file.st_size);
printf("No. of links : %d\n", file.st_nlink);
printf("Permission : ");
printf(" %s_ISDIR(file.st_mode) ? \"d\" : \"-\" );
printf(" (file.st_mode & S_IRUSR) ? \"r\" : \"-\" );
printf(" (file.st_mode & S_IWUSR) ? \"w\" : \"-\" );
printf(" (file.st_mode & S_IXUSR) ? \"x\" : \"-\" );
printf(" (file.st_mode & S_IRGRP) ? \"r\" : \"-\" );
printf(" (file.st_mode & S_IWGRP) ? \"w\" : \"-\" );
printf(" (file.st_mode & S_IXGRP) ? \"x\" : \"-\" );
printf(" (file.st_mode & S_IROTH) ? \"r\" : \"-\" );
printf(" (file.st_mode & S_IWOTH) ? \"w\" : \"-\" );
printf(" (file.st_mode & S_IXOTH) ? \"x\" : \"-\" );
printf("\n");
if (file.st_mode & S_IFREG)
{
    printf("File type : Regular\n");
}
if (file.st_mode & S_IFDIR)
{
    printf("File type : Directory\n");
}
}
```

Dirlist.c

```
convy 22nd@convy22nd-Lenovo-ideapad-100-14IBD:~/Documents$ clear
convy 22nd@convy22nd-Lenovo-ideapad-100-14IBD:~/Documents$ sudo su
[sudo] password for convy_22nd:

root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# gcc dirlist.c
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# ./a.out
stat.c
stat.c.save
..
Problem Solving LO Makrab
a.out
exploit-linuxsec-org-tutorial-sql-injection-manual-.pdf
diskrit
tugasTambahan
kaliBlackMain.png
jcalendar-1.4.jar
dirlist.c
latian uts
Untitled 1.odt
Project PBO
.
```

Source code dirlist.c



```
GNU nano 2.9.3 dirlist.c
#include <stdio.h>
#include <stdlib.h>
#include <dirent.h>
int main(int argc, char*argv[])
{
    struct dirent *dptr;
    DIR *dname;
    if (argc != 2)
    {
        printf("Usage: ./a.out <dirname>\n");
        exit(-1);
    }
    if ((dname = opendir(argv[1])) == NULL)
    {
        perror(argv[1]);
        exit(-1);
    }
    while (dptr=readdir(dname))
    {
        printf("%s\n", dptr->d_name);
    }
    closedir(dname);
}
```

Terminal window details: Title bar shows 'Terminal - root@convy22nd...'. The nano editor interface includes a menu bar (File, Edit, View, Terminal, Tabs, Help) and a status bar with various shortcuts like ^G Get Help, ^X Exit, ^O Write Out, ^R Read File, ^W Where Is, ^_ Replace, ^K Cut Text, ^U Uncut Text, ^J Justify, ^T To Spell, ^C Cur Pos, ^_ Go To Line, ^M-U Undo, ^M-E Redo, ^M-A Mark Text, ^M-B Copy Text, ^M-I To Bracket, and ^M-W WhereIs Next.