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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 '__link_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 22:38:51 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

The screenshot shows a terminal window with the following content:

```

#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" : "-");
    printf("\n");
}

```

The terminal output shows the execution of the program with the file 'STAT.C' as an argument. The output displays various file statistics for 'STAT.C'.

```

./a.out STAT.C
User id : 0
Group id: 0
Block size: 4096
Block allocated: 1
Inode no. : 12345678
Last accessed : Sun Aug 10 10:10:10 2020
Last modified : Sun Aug 10 10:10:10 2020
File size : 1024 bytes
No. of links : 1
Permission : -rwxr-xr-x

```

```
GNU nano 2.9.3 stat.c

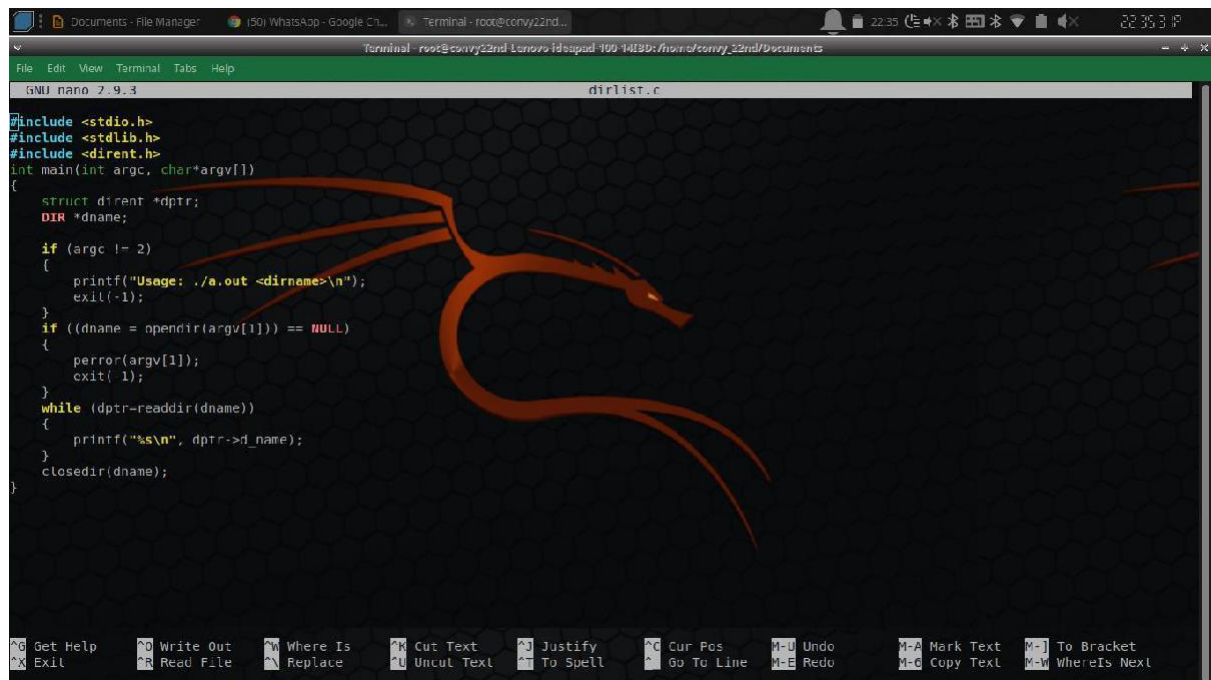
printf("User id : %d\n", file.st_uid);
printf("Group id: %d\n", file.st_gid);
printf("Block size: %d\n", file.st_blksize);
printf("Block allocated: %d\n", file.st_blocks);
printf("Inode no. : %d\n", file.st_ino);
printf("Last accessed : %s", ctime(&(file.st_atime)));
printf("Last modified : %s", ctime(&(file.st_mtime)));
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-100-141BD:~/Documents$ clear
convy_22nd@convy22nd-Lenovo-ideapad-100-141BD:~/Documents$ sudo su
[sudo] password for convy_22nd:

root@convy22nd-Lenovo-ideapad-100-141BD: /home/convy_22nd/Documents# gcc dirlist.c
root@convy22nd-Lenovo-ideapad-100-141BD: /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
lalian.uls
Untitled 1.odt
Project PHO
root@convy22nd-Lenovo-ideapad-100-141BD: /home/convy_22nd/Documents#
```

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);
}
```

Get Help Write Out Where Is Cut Text Justify Cur Pos M-U Undo M-A Mark Text M-] To Bracket
Exit Read File Replace Uncut Text To Spell Go To Line M-E Redo M-C Copy Text M-W WhereIs Next