

Mini Project 1

Task - Create a chatbot on linux using netcat.

About netcat- netcat, often abbreviated to nc, is a computer networking utility for reading from and writing to network connections using TCP or UDP. The command is designed to be a dependable back-end that can be used directly or easily driven by other programs and scripts.

Steps: 1) Installing netcat in linux

```
sudo apt-get install netcat
```

2) Install netcat from an official source, unzip the file if needed and open the directory of netcat in the terminal.

3) Use command apt-get install build-essential to install gcc to the \$PATH.

4) In the directory of netcat, run commands make and make install.

5) Setup another linux instance in a machine.

6) Configure the network settings on the instance to allow requests to all ports.

6) In the second instance, run the command in nc -l 1234.

7) Run the command nc <public ip of instance> 1234 -v on a local device.

8) Connection is established.

Activities Terminal May 7 13:47

SecurityGroup | EC2 | x EC2 Instance Connect: x Untitled document - x about netcat - Google x Creating a Simple Ch... x No acceptable C com... x

https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&... 120%

aws Services Search

Amazon Linux 2023

https://aws.amazon.com/linux/amazon-linux

Last login: Tue May 7 07:42:26 2024 from 13.233.177.3

```
[ec2-user@ip-172-31-40-68 ~]$ history
1 sudo apt-get install netcat
2 yum install nc
3 sudo yum install nc
4 nc 192.168.8.217 1234
5 nc 192.168.8.217 1234
6 i can talk
7 nc 192.168.8.217 -p 1234
8 nc 127.0.0.1 12345
9 history
[ec2-user@ip-172-31-40-68 ~]$ nc -l 1234
hello
hi
[]
```

i-0b37c3fc417fe7f6a (Amazon)

PublicIPs: 13.201.33.25 PrivateIPs: 172.31.40.68

CloudShell Feedback

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vandan@vandan-Inspiron-14-5420: ~

```
^CExiting.
vandan@vandan-Inspiron-14-5420:~$ nc -nvlp 1234
Listening on 0.0.0.0 1234
hi
^C
vandan@vandan-Inspiron-14-5420:~$ nc -l -p 1234
^C
vandan@vandan-Inspiron-14-5420:~$ uo
uo: command not found
vandan@vandan-Inspiron-14-5420:~$ nc -l -p 12345
^C
vandan@vandan-Inspiron-14-5420:~$ nc -nvlp 1234
Listening on 0.0.0.0 1234
^C
vandan@vandan-Inspiron-14-5420:~$ nc 13.201.33.25 1234
^C
vandan@vandan-Inspiron-14-5420:~$ nc 13.201.33.25 1234 -v
^C
vandan@vandan-Inspiron-14-5420:~$ nc 13.201.33.25 1234 -v
Connection to 13.201.33.25 1234 port [tcp/*] succeeded!
hello
hi
[]
```