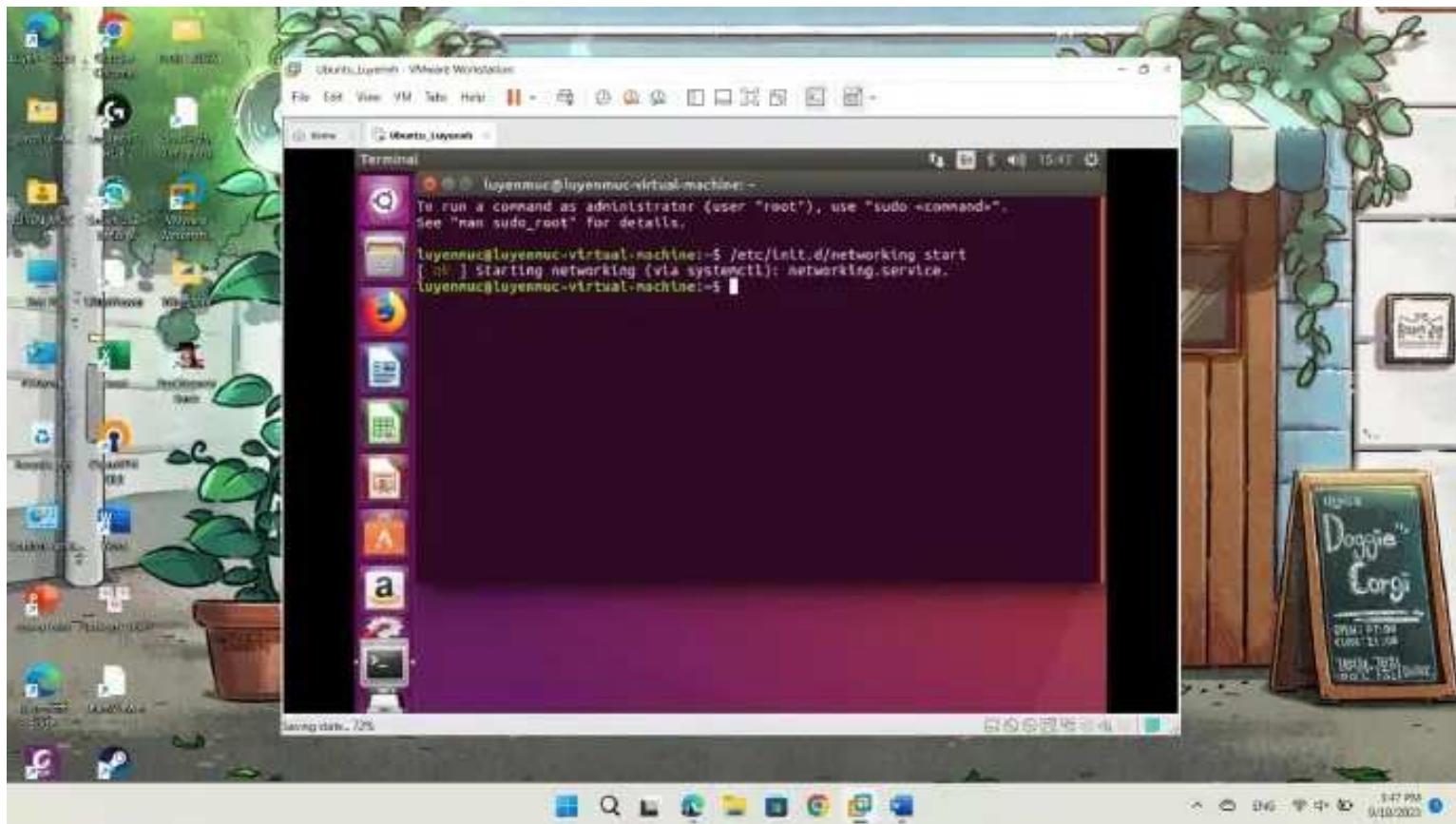


LAB 4

Nguyễn Hồng Luyến_SE172617

Lab 4.1

Khởi động card mạng trong ubuntu lại trong máy ảo:



Cân nhât và cài các thư viện cần thiết cho cài đặt ClamAV.

We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.



Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

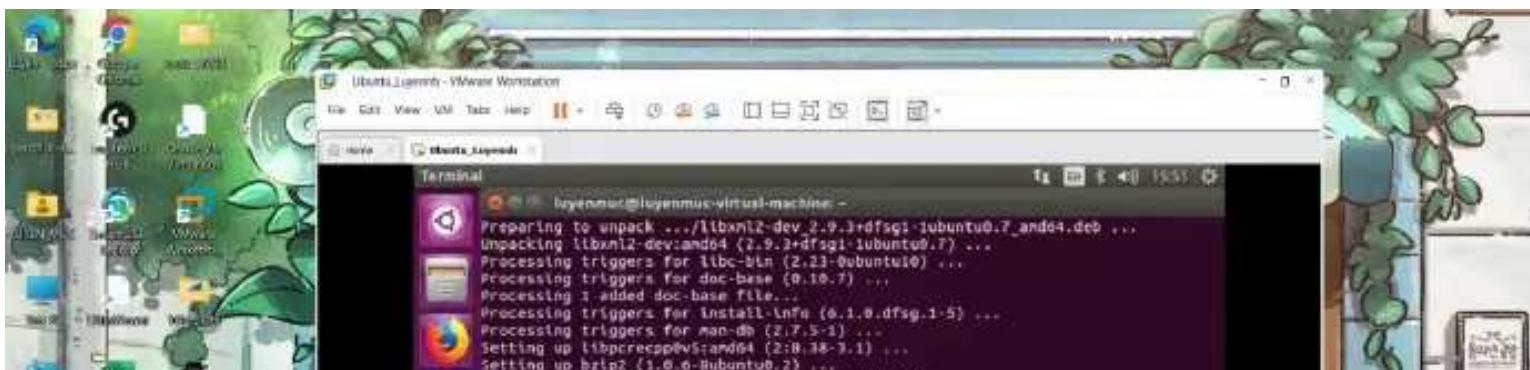
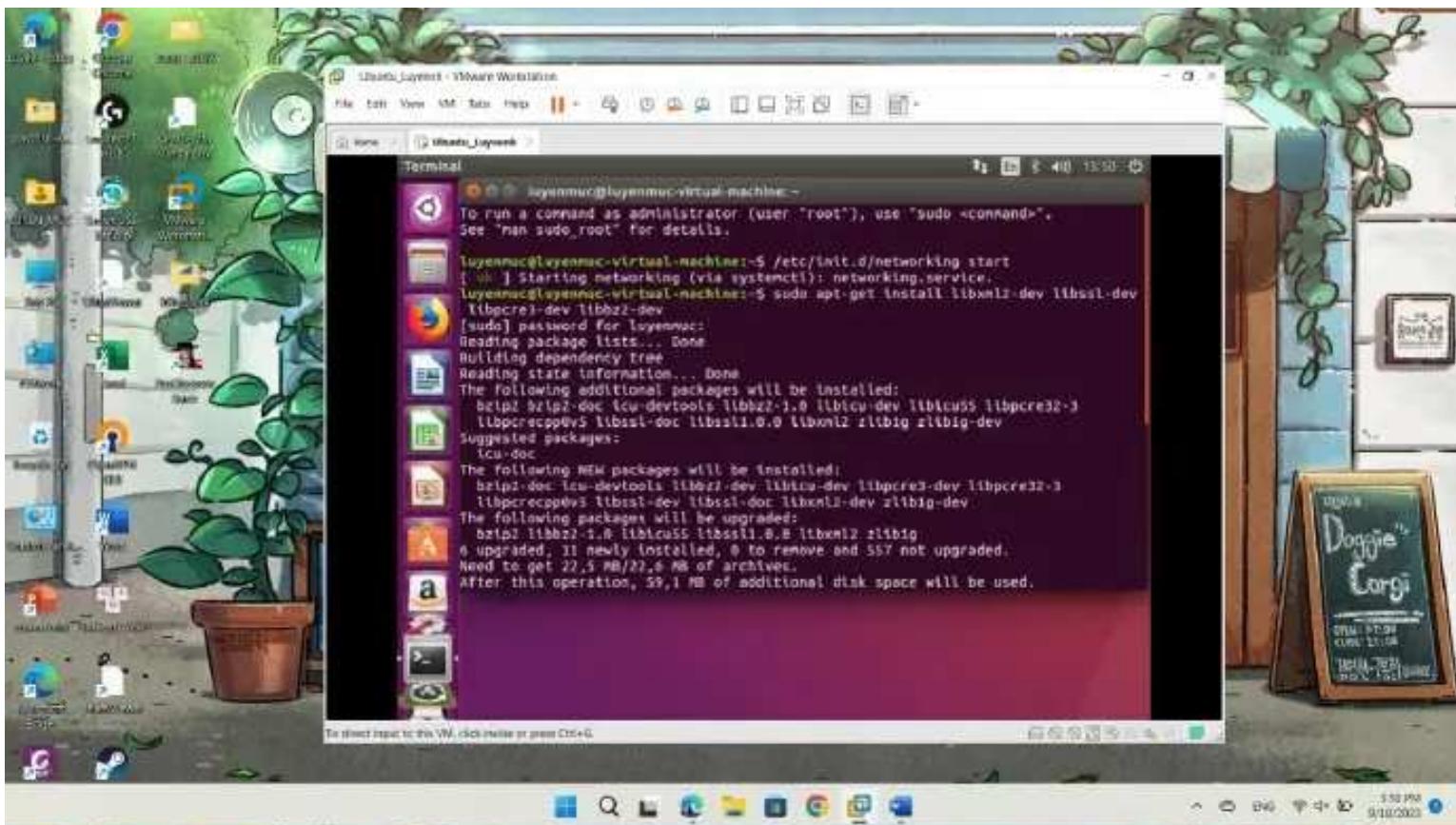
Personalization

Analytics

[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

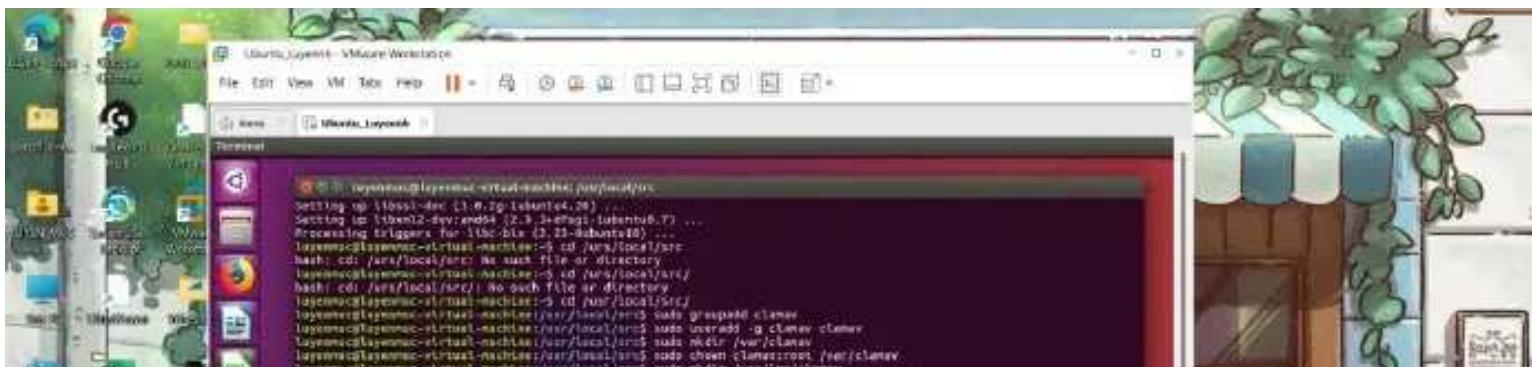
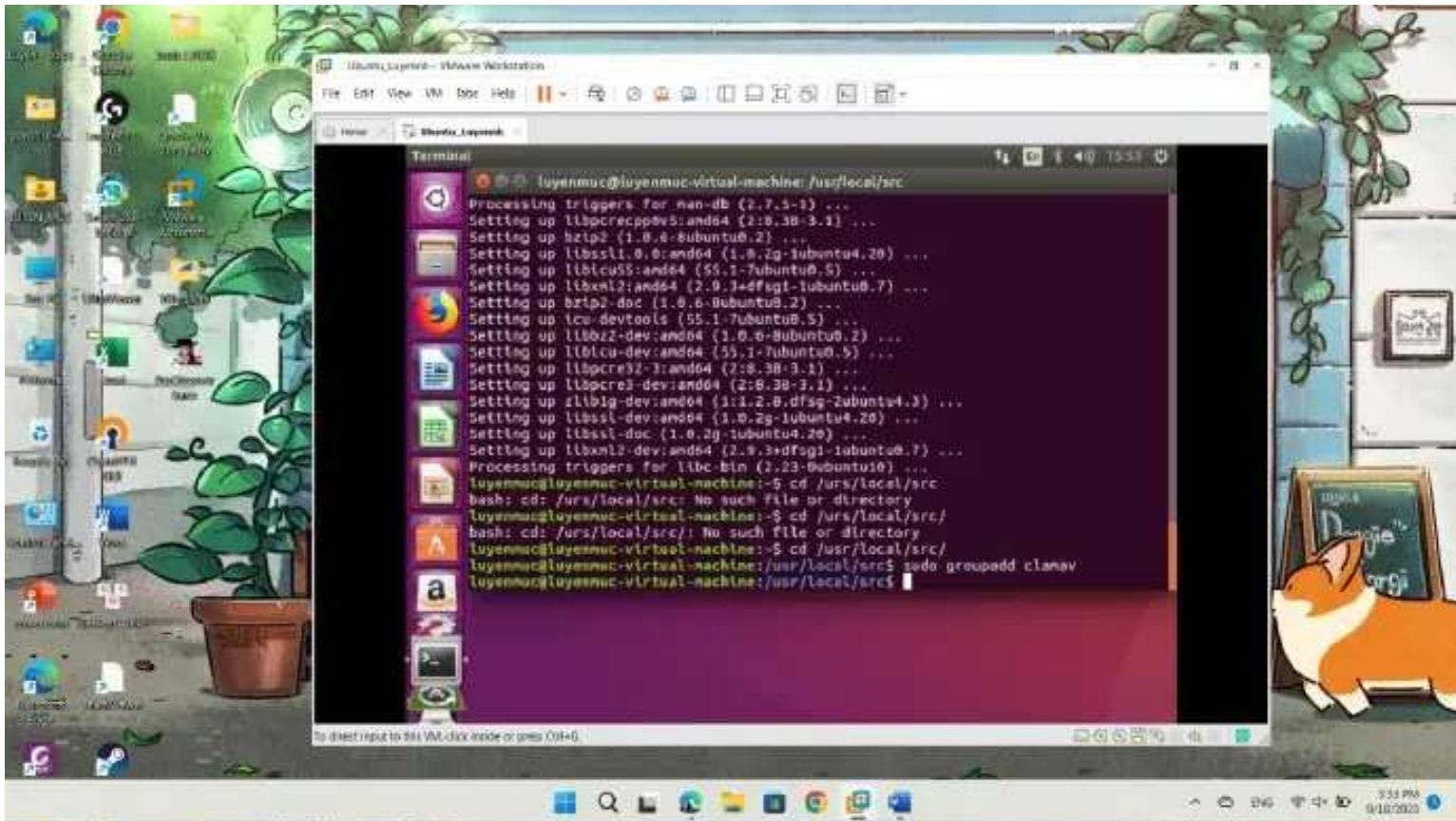
Personalization

Analytics

[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.



Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

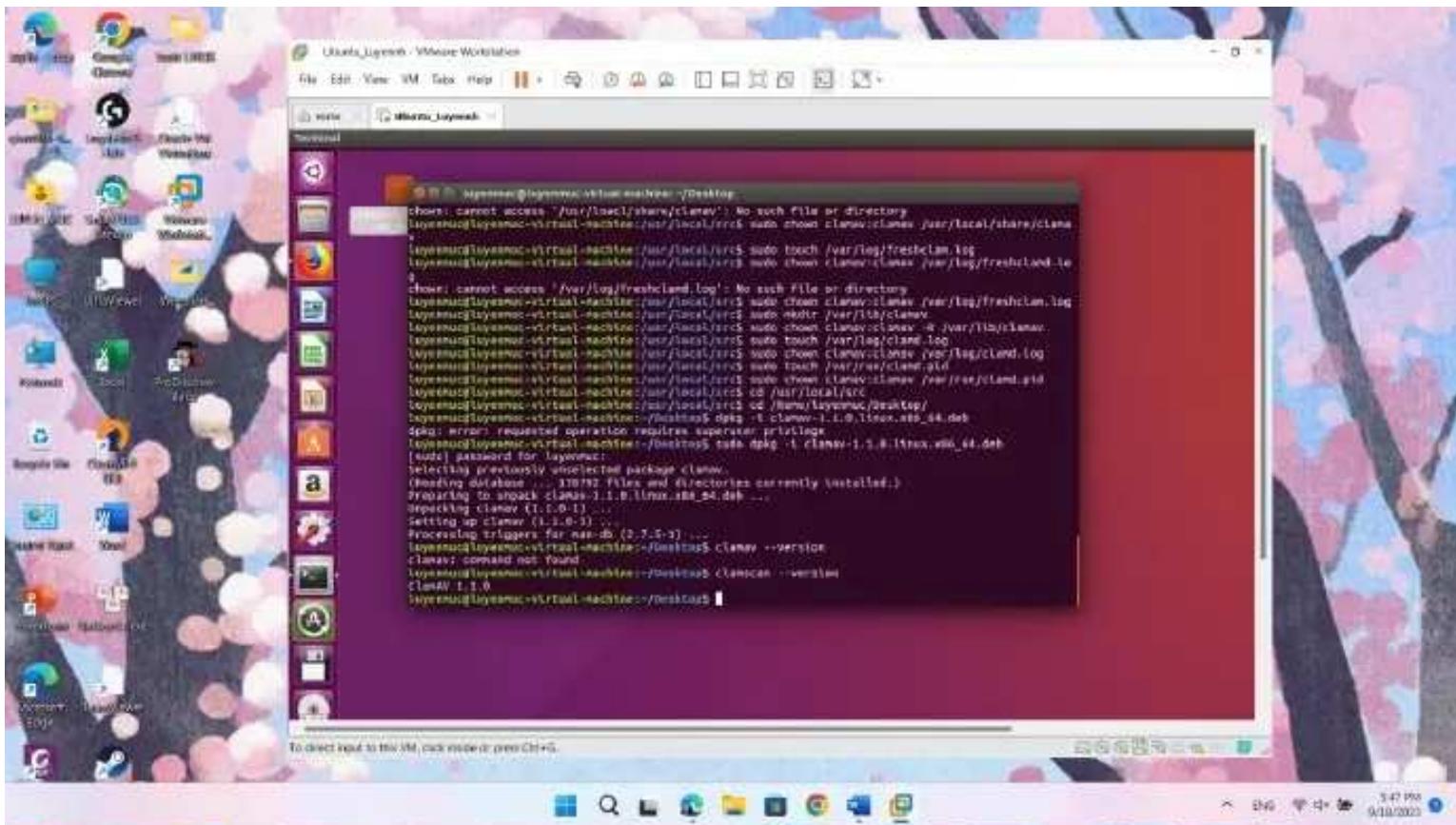
Personalization

Analytics

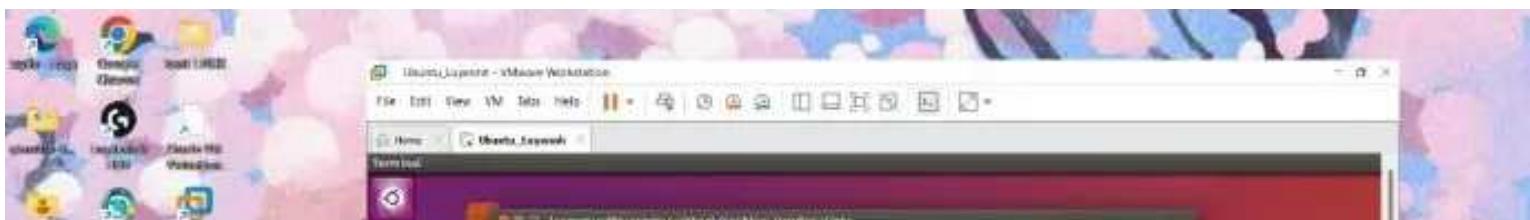
[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



Di chuyển tới thư mục /usr/local/etc bằng câu lệnh cd /usr/local/etc, sau đó kiểm tra bằng câu lệnh ls -la ta có thể thấy hai file là clamd.conf.sample và clamd.conf.sample



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

Personalization

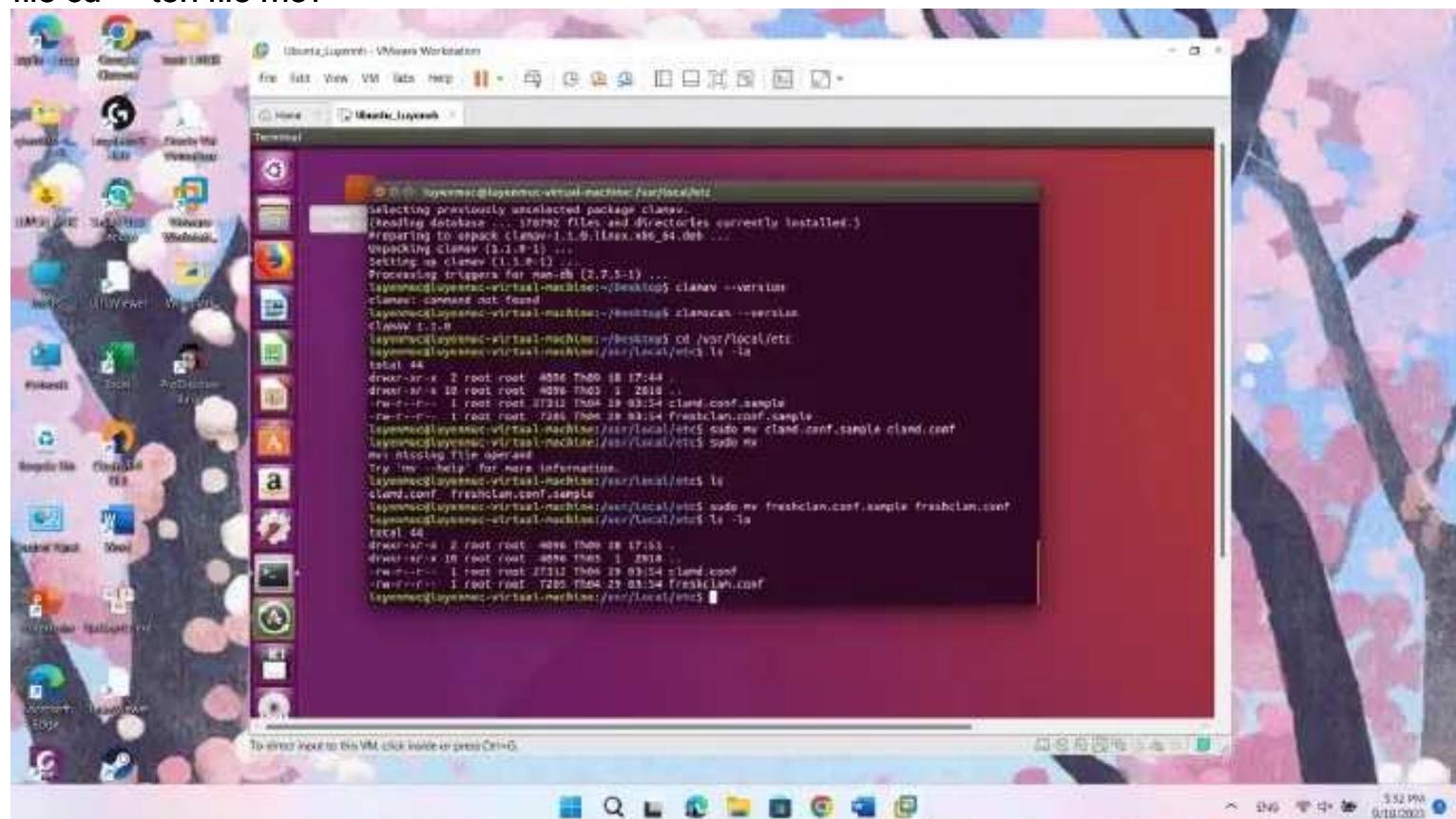
Analytics

[Save preferences](#)

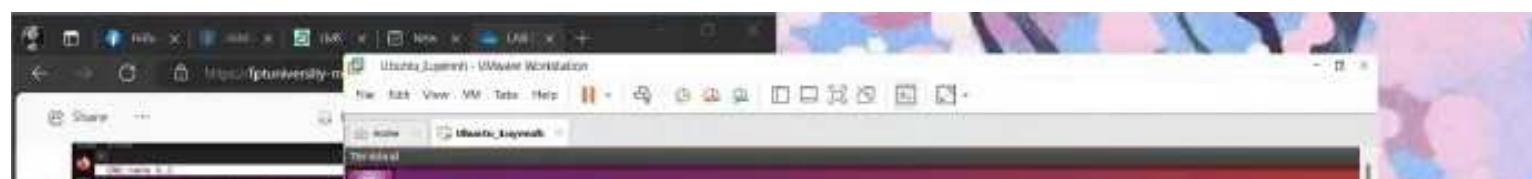
[Accept All](#)

[Reject Non-Essential](#)

file cũ > <tên file mới>



Dùng lệnh sudo nano clamd.conf (xóa example hoặc thêm hastag trước example) Sau đó nhấn Ctrl S rồi Ctrl X để thoát:



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

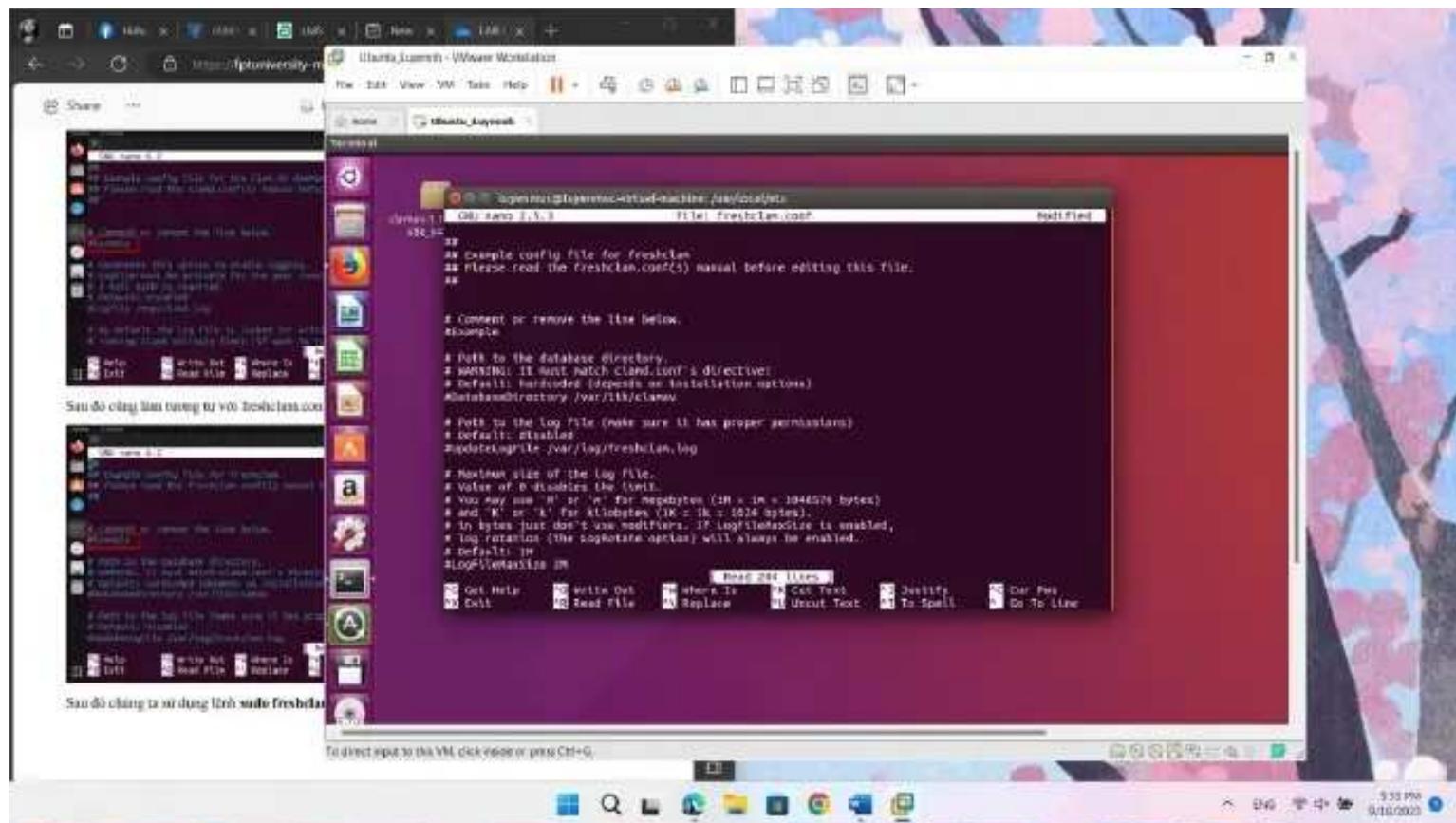
Personalization

Analytics

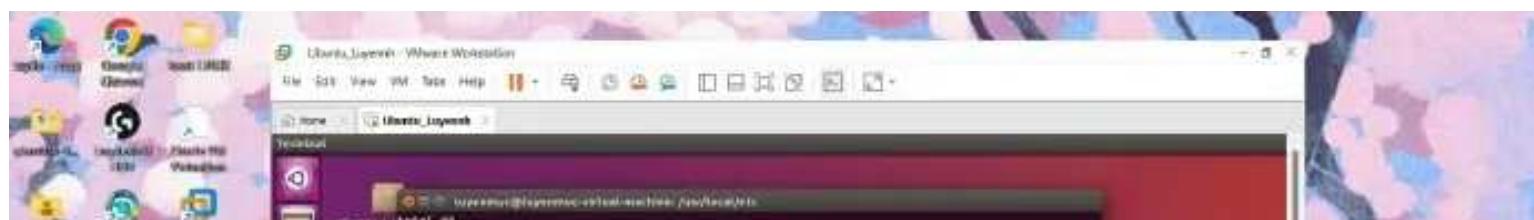
[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



Sau đó chúng ta sử dụng lệnh sudo freshclam để download các file cài đặt ClamAV



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

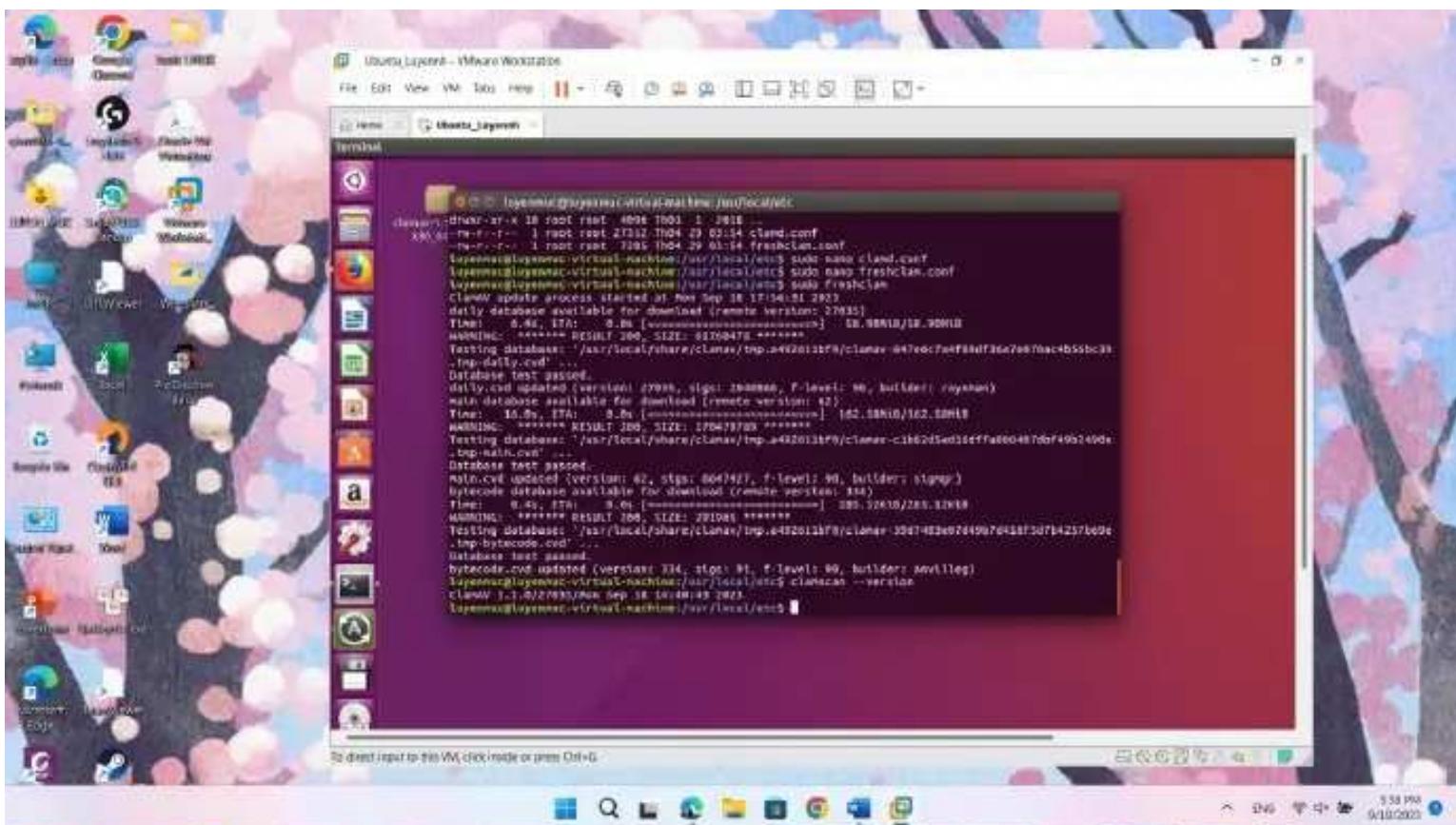
Personalization

Analytics

[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



Tiếp theo, chúng ta sẽ thử download một con virus xem có chạy hay không. Vào trong desktop, tạo một thư mục bất kỳ, sau đó dung câu lệnh wget để có thể download file về.



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

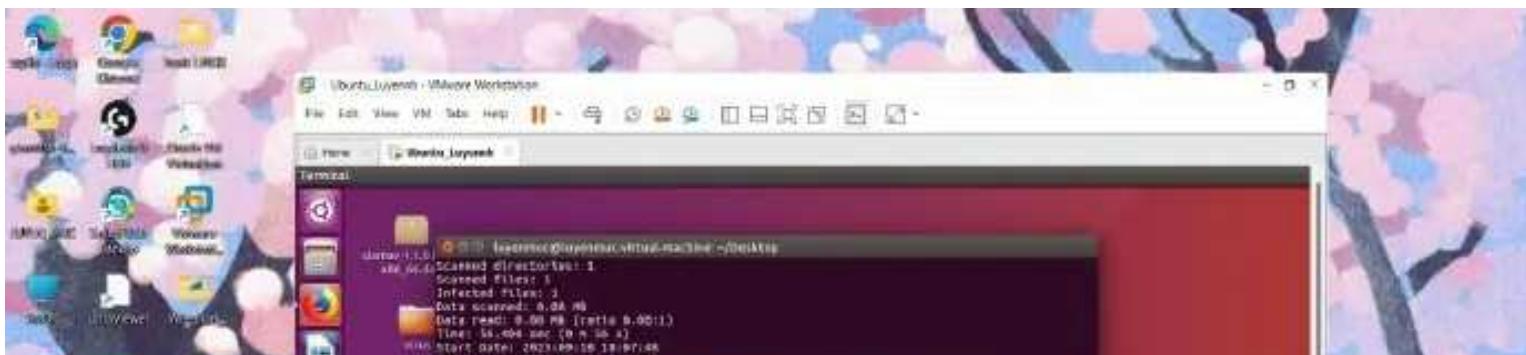
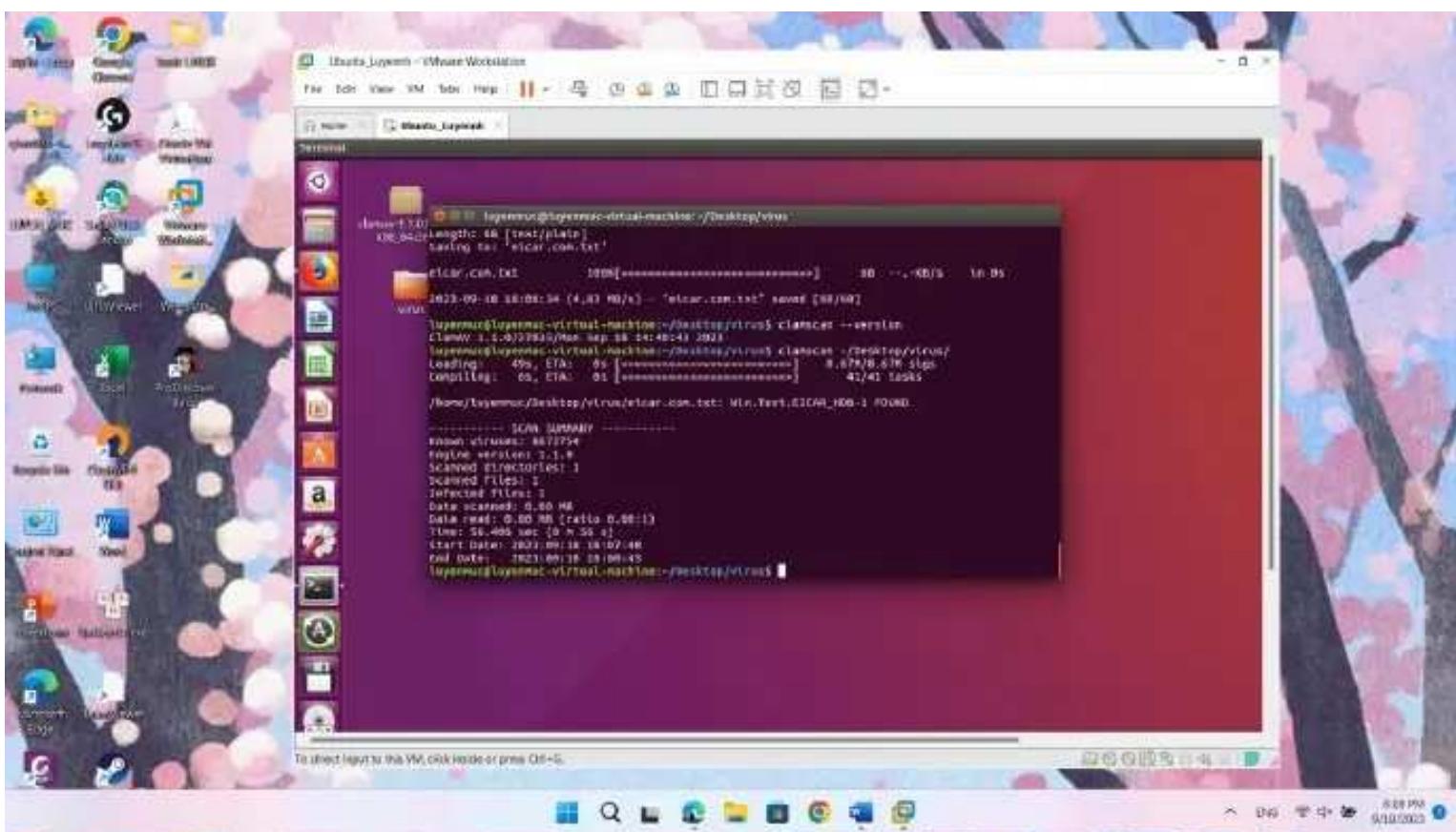
Personalization

Analytics

[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.



Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

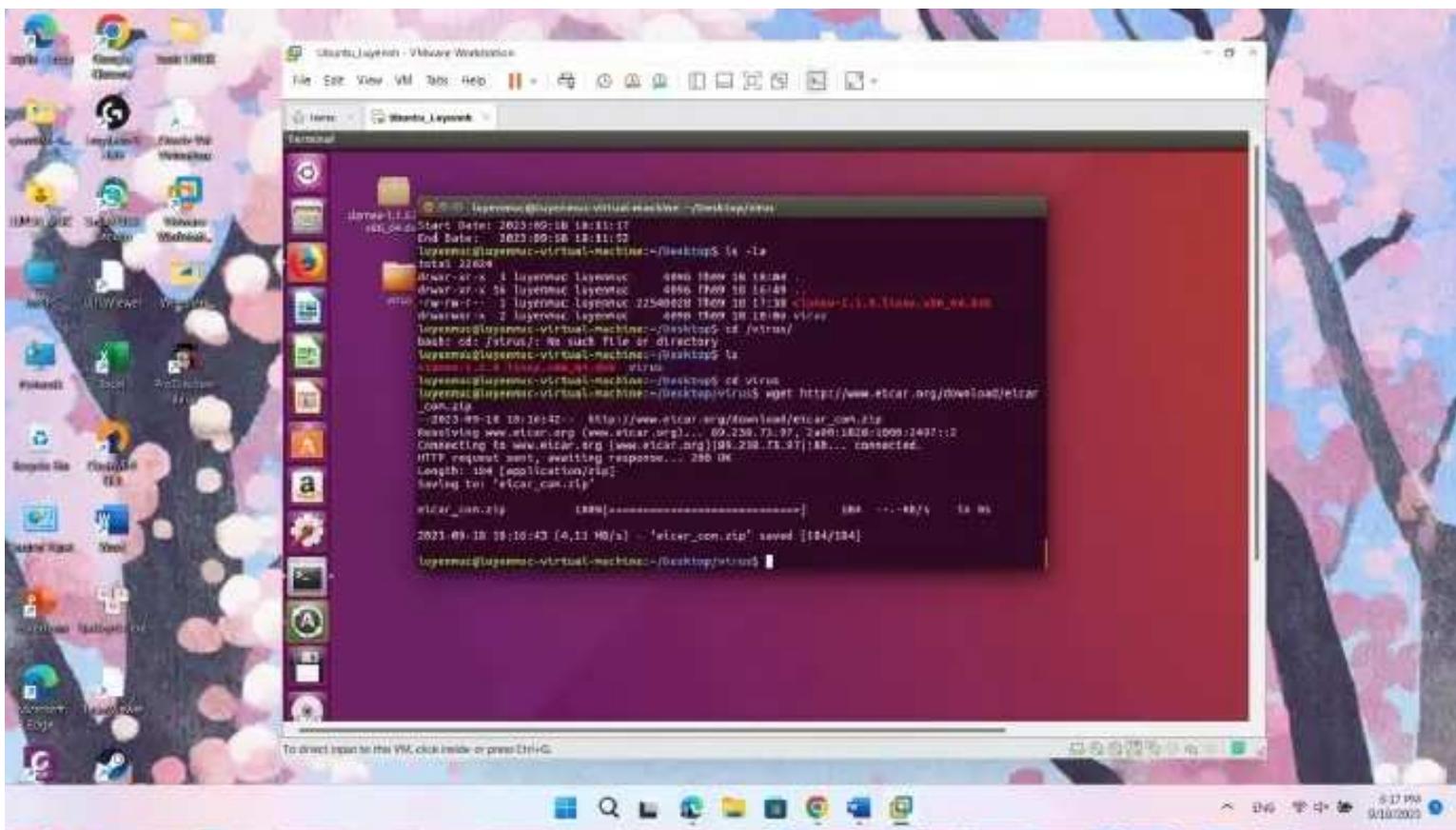
Personalization

Analytics

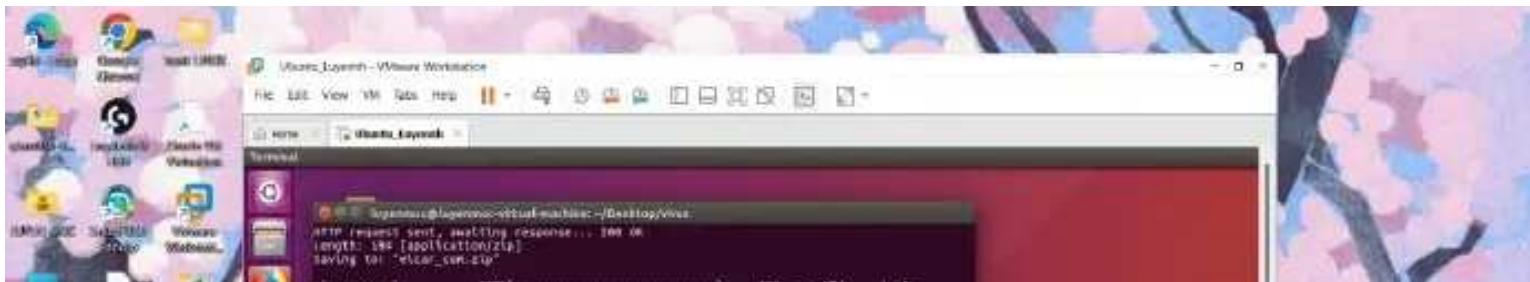
[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



Bây giờ chún ta sẽ tạo một rule để có thể test với clamav.



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.



Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

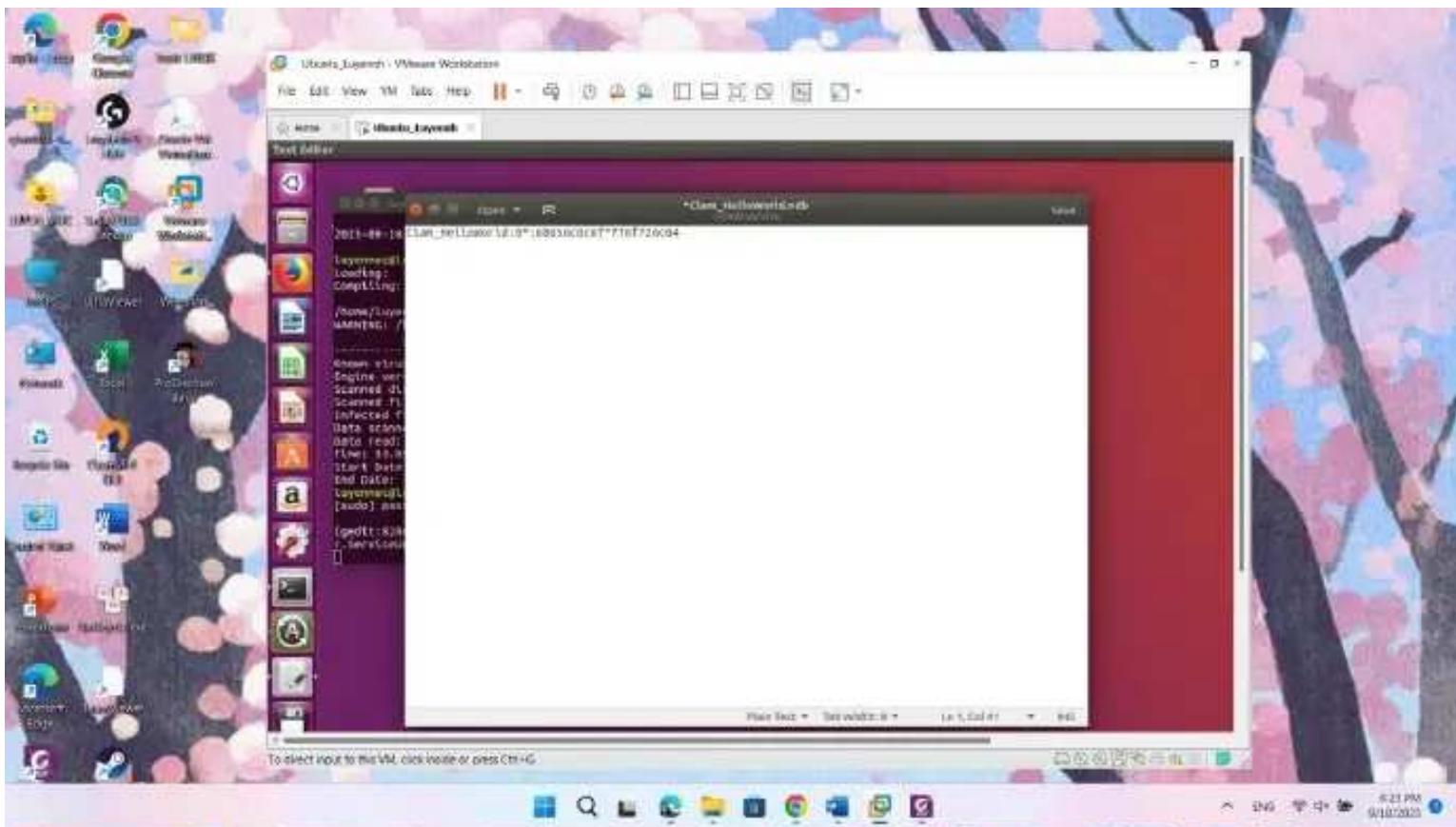
Personalization

Analytics

[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



Tiếp đến, ta tạo file test.txt bằng lệnh `sudo touch ./test.txt`, trong file này có sẽ chứa 2 từ “hello world”. Sau đó là ta dùng lệnh này để scan:



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

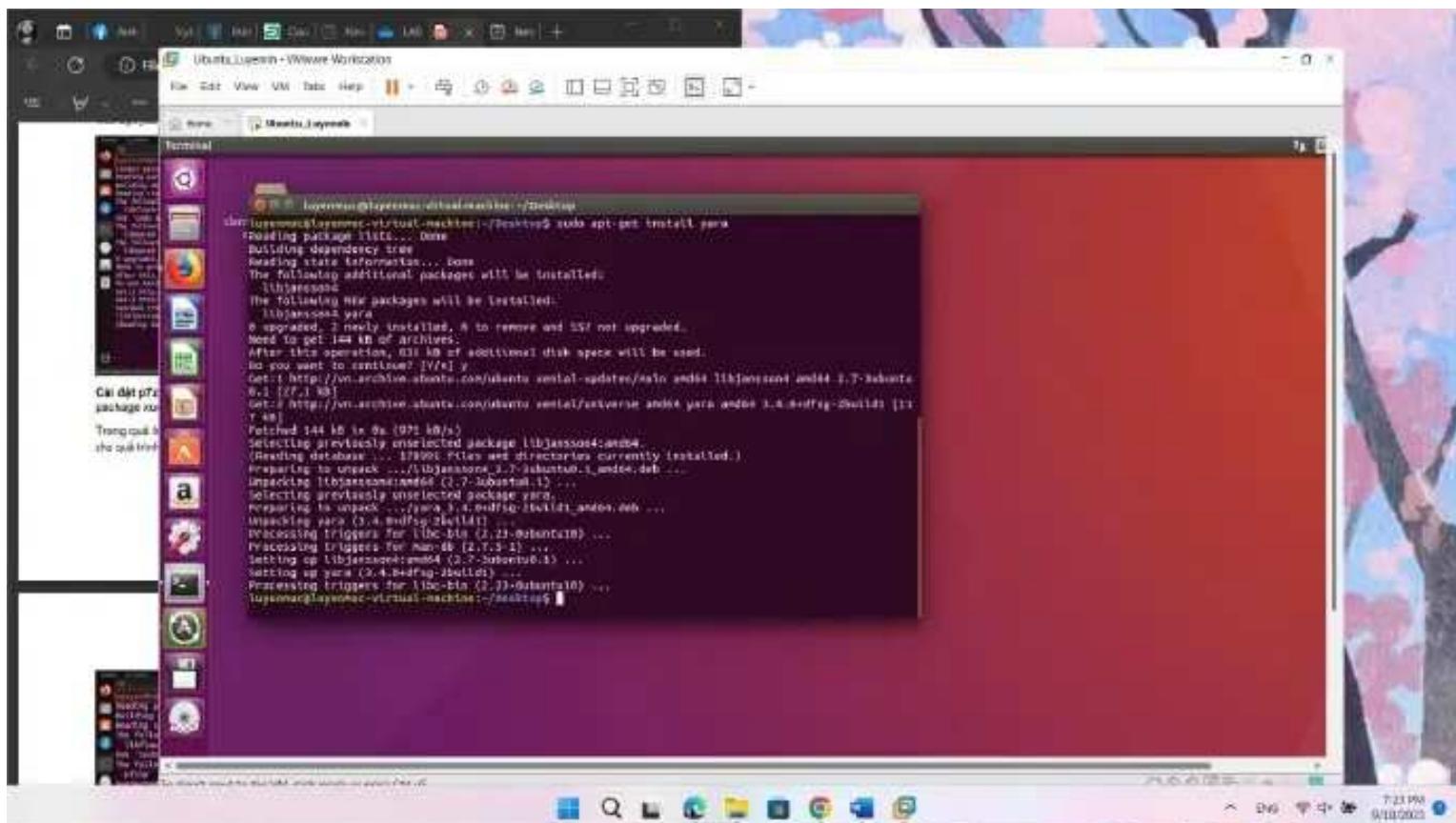
Personalization

Analytics

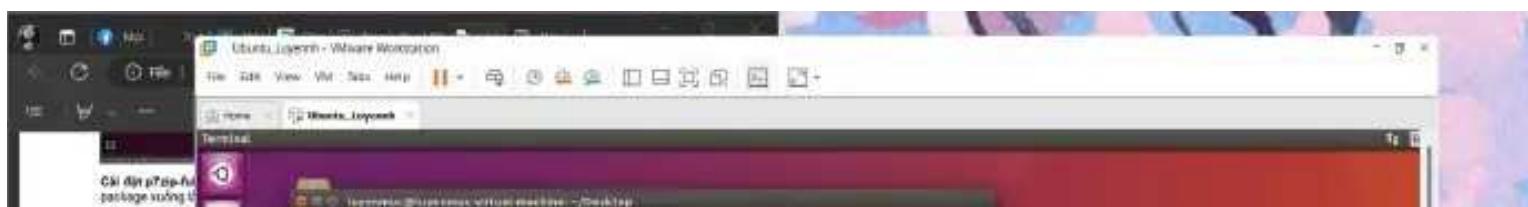
[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



Cài đặt p7zip-full:



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

Storage Preferences

Third Parties

Storage

Targeted Advertising

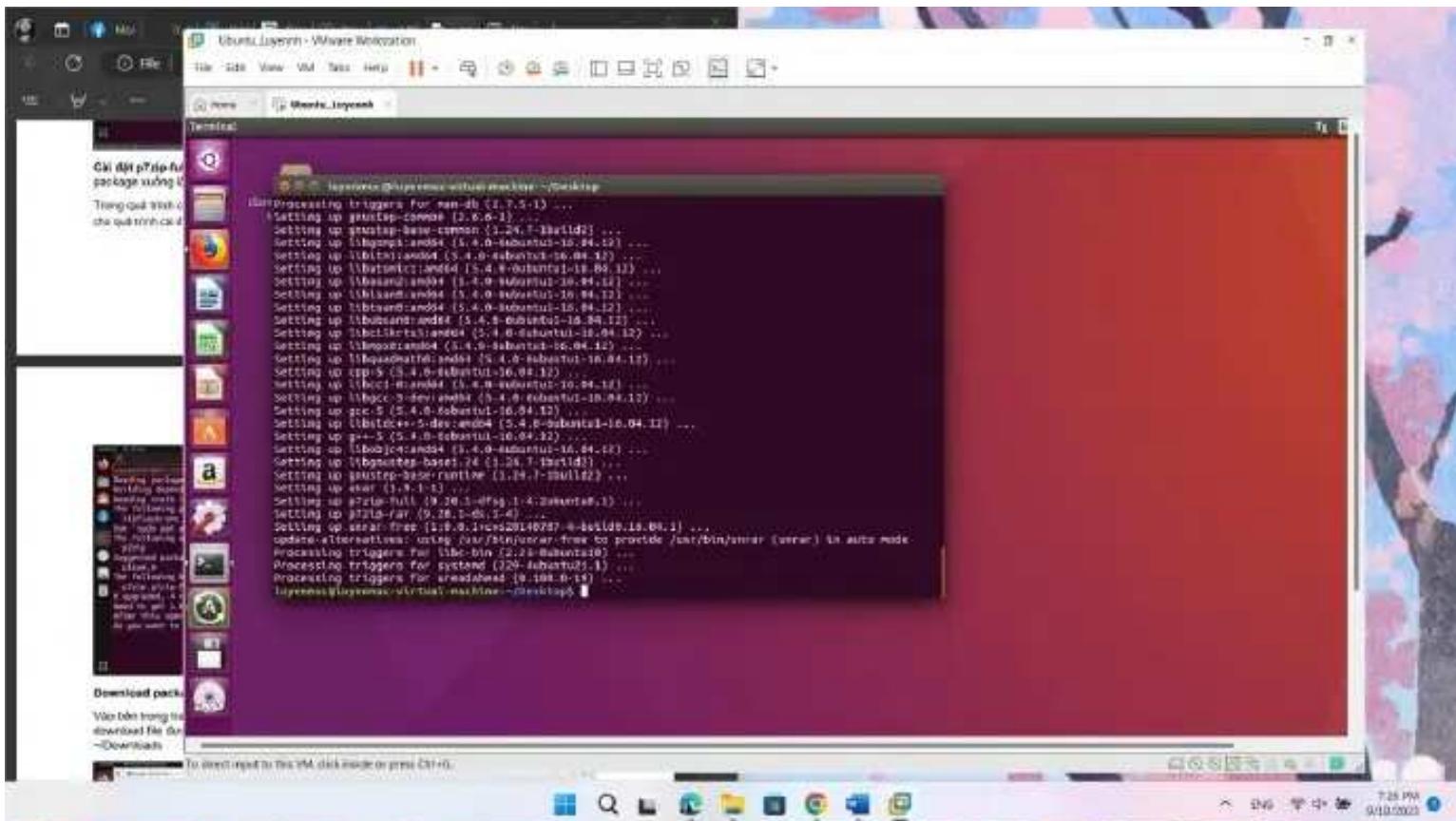
Personalization

Analytics

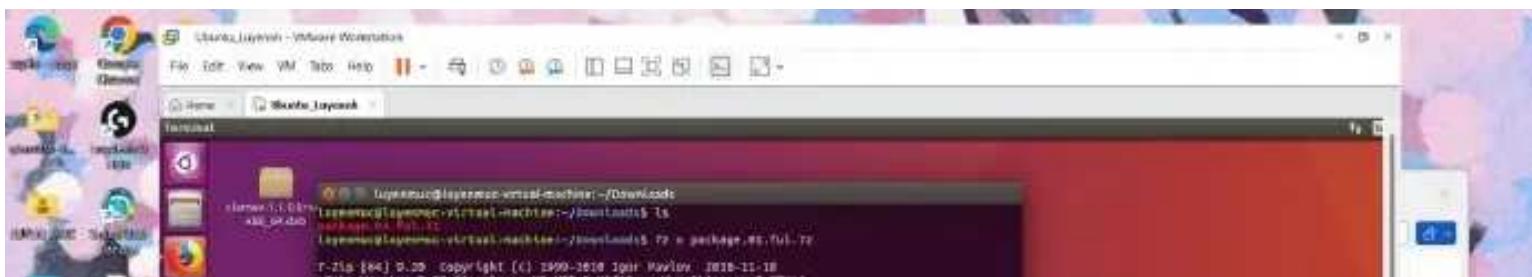
[Save preferences](#)

Accept All

Reject Non-Essential



Sau khi download, chúng ta sẽ tiến hành phân giải chúng:



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

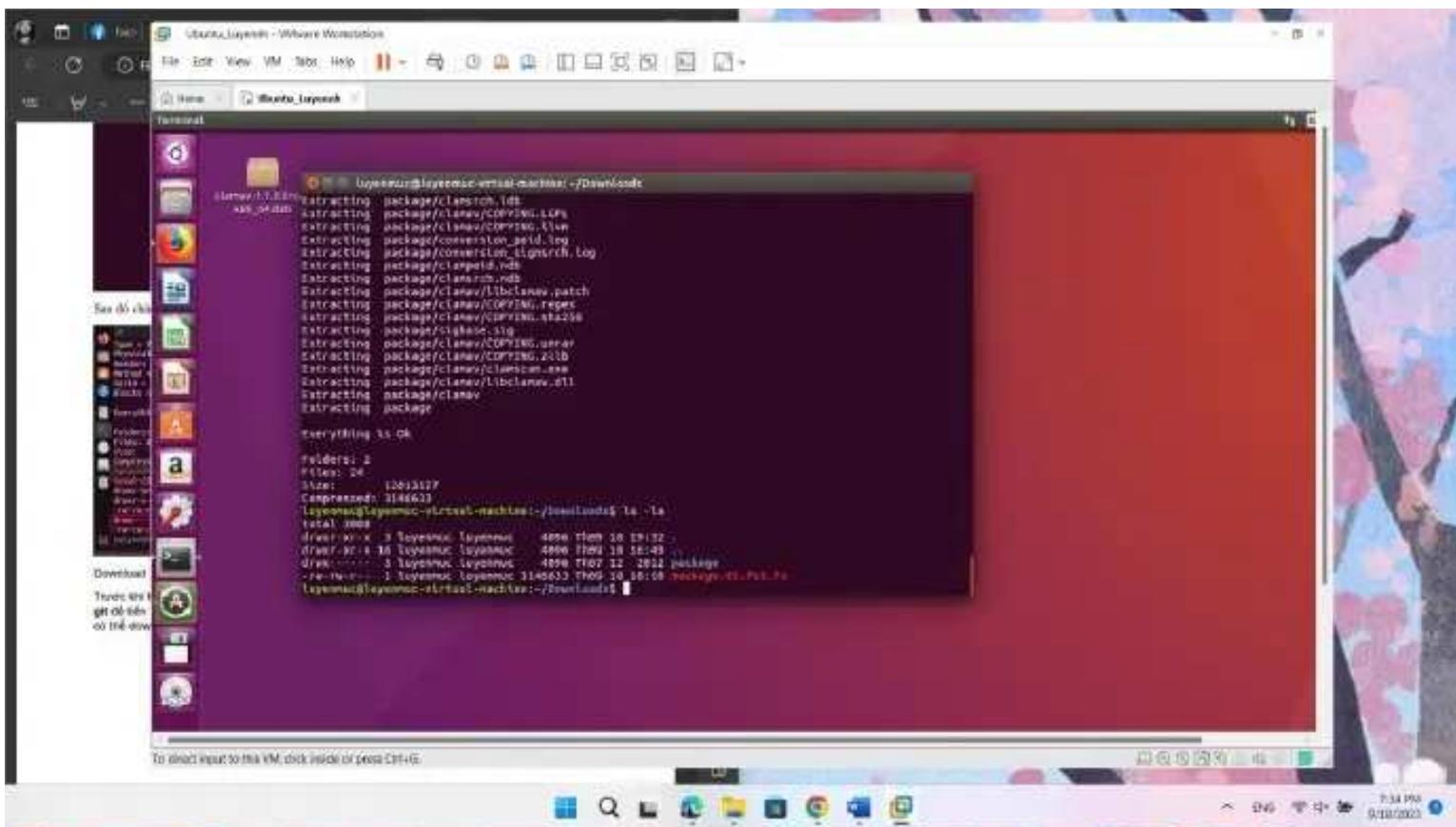
Personalization

Analytics

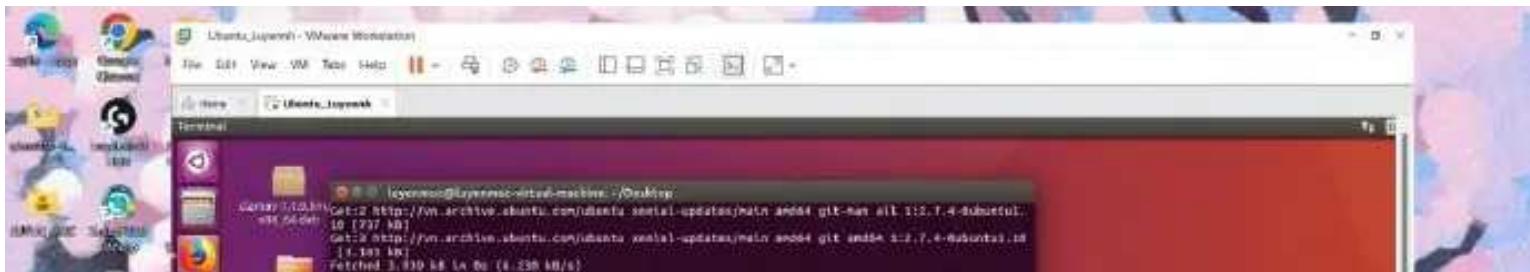
[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



Download file [clam_to_yara.py](#):



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

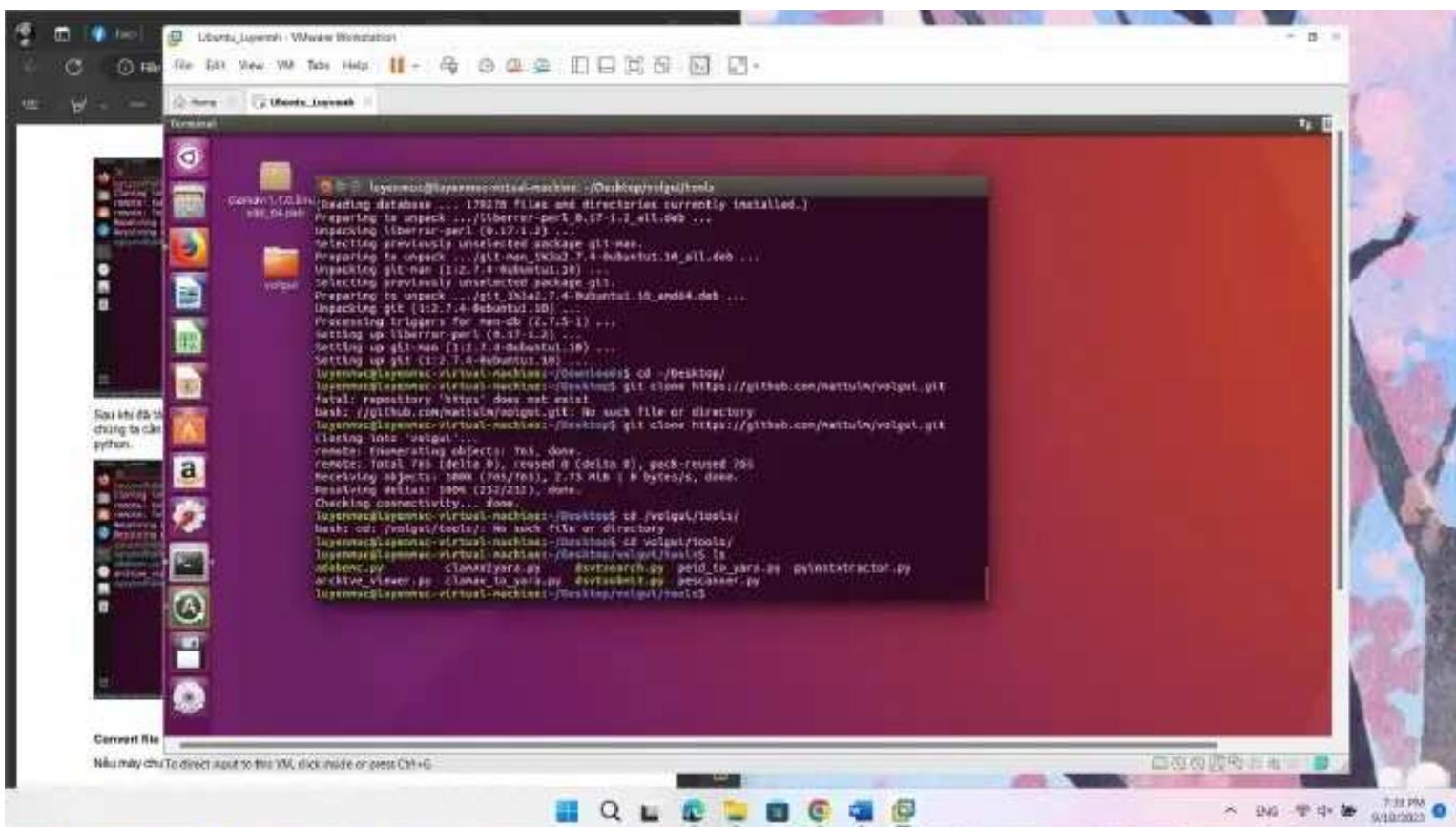
Personalization

Analytics

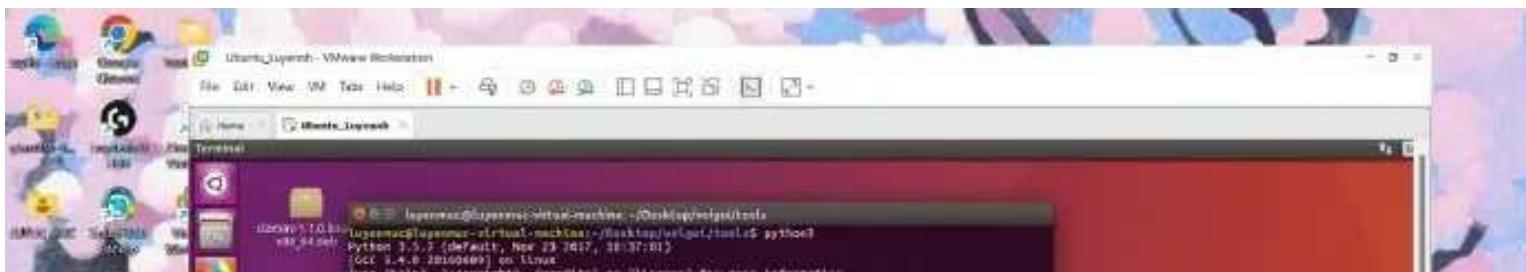
[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



Convert file clamav sang yara



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

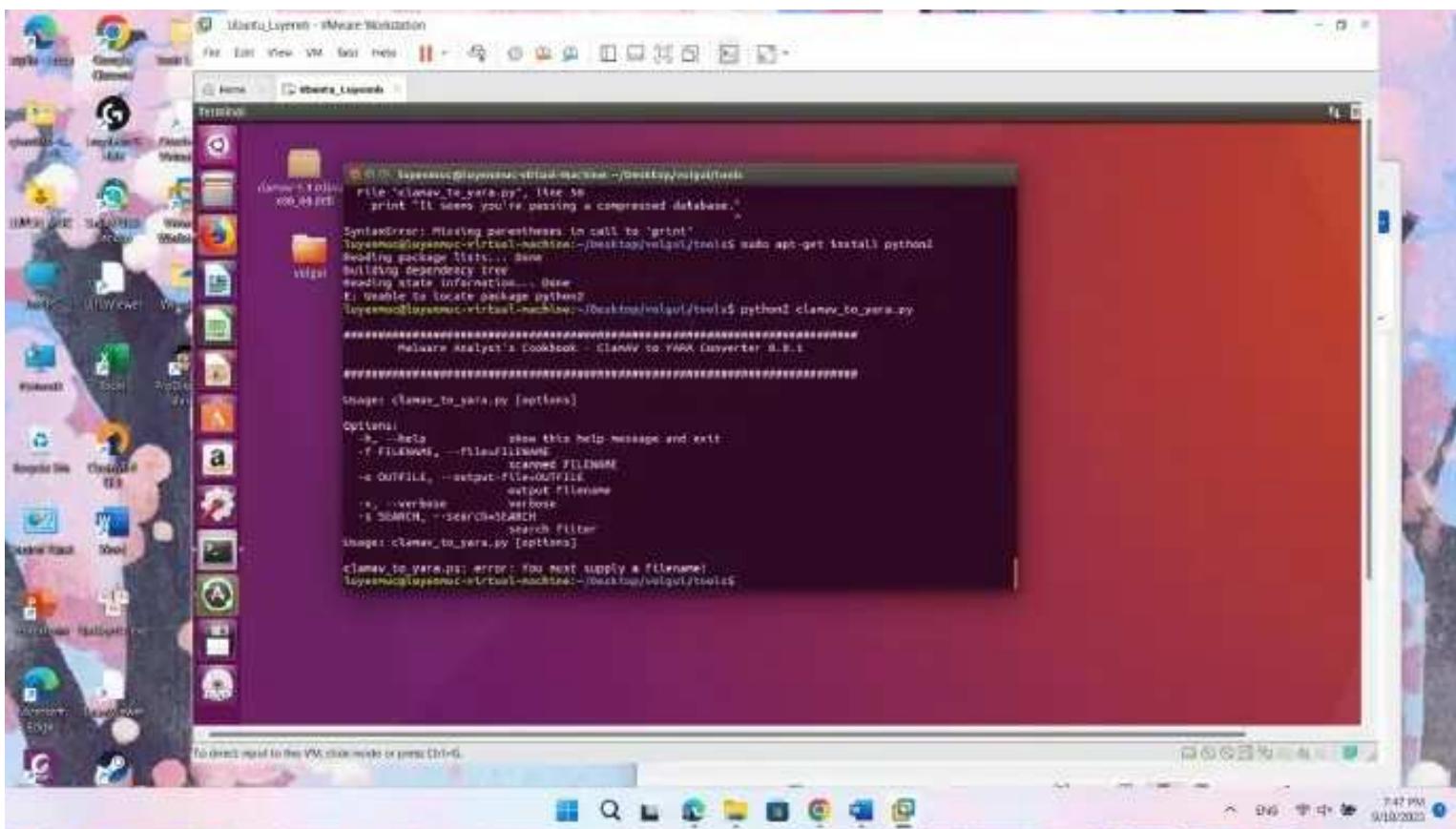
Personalization

Analytics

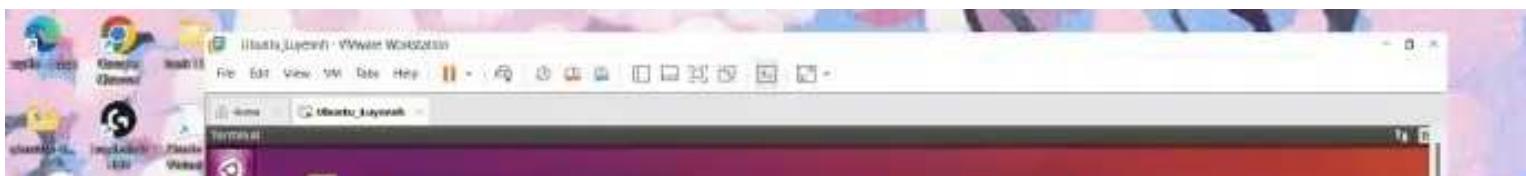
[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



Ở đây nó sẽ hiện ra một số cách dung cơ bản của file này như là -f để hiện file, -o là file output. Vì thế full command của chúng ta sẽ là: sudo python clamav_to_yara.py -f ~/Desktop/package/clamsrch.ndb -o clamsrch.yara



Storage

Targeted Advertising

Personalization

Analytics

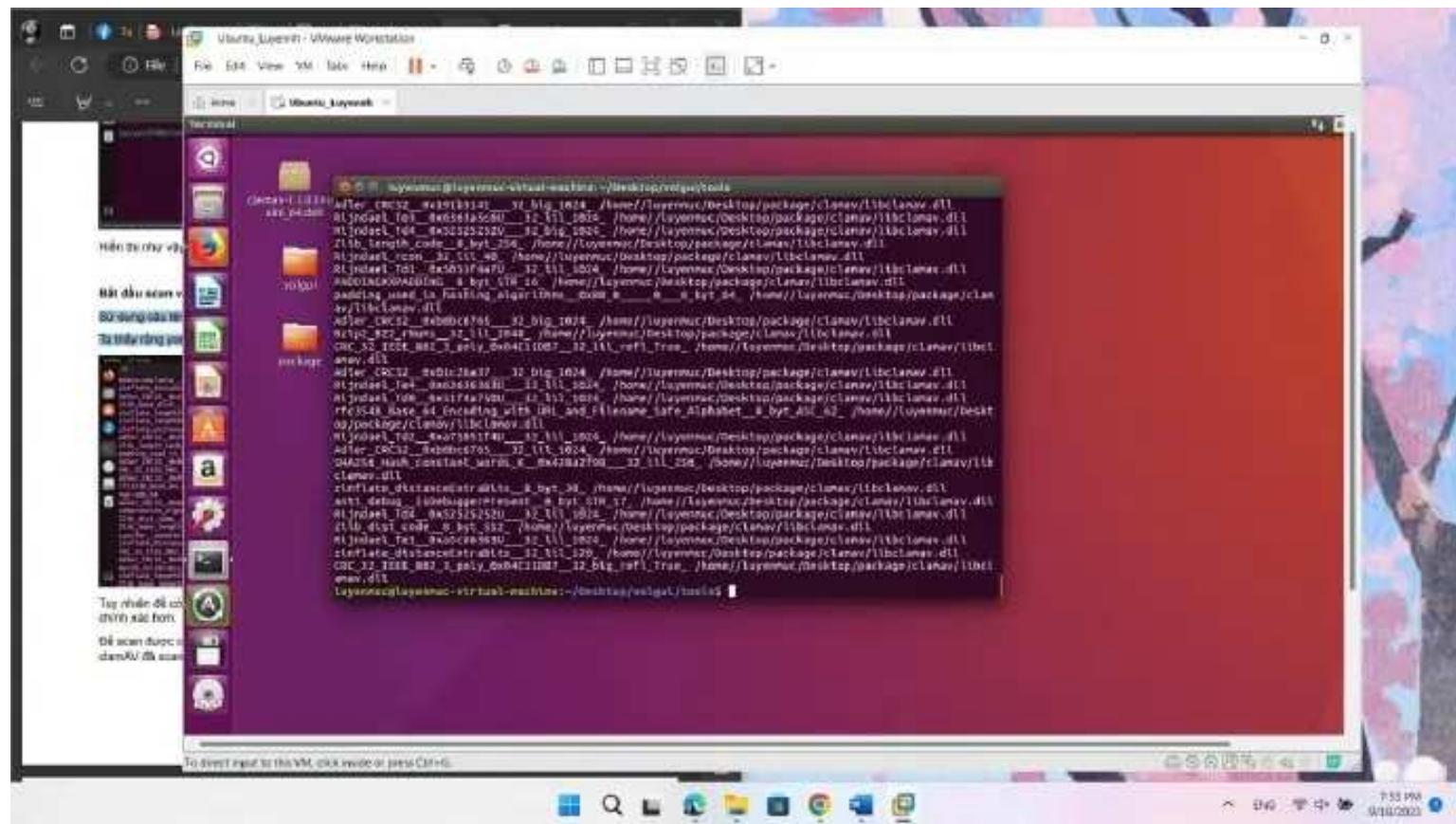
[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)

Bắt đầu scan với yara:

Sử dụng câu lệnh: yara -r clamsrc.yara /home/ để test xem có chuyện gì xảy ra không Ta thấy rằng yara đã scan ra rất nhiều thứ được biểu thị ở hình dưới đây



Tuy nhiên để có thể chính xác hơn thì ta sẽ dùng data của clamav để làm để scan một cách chính xác hơn.

We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

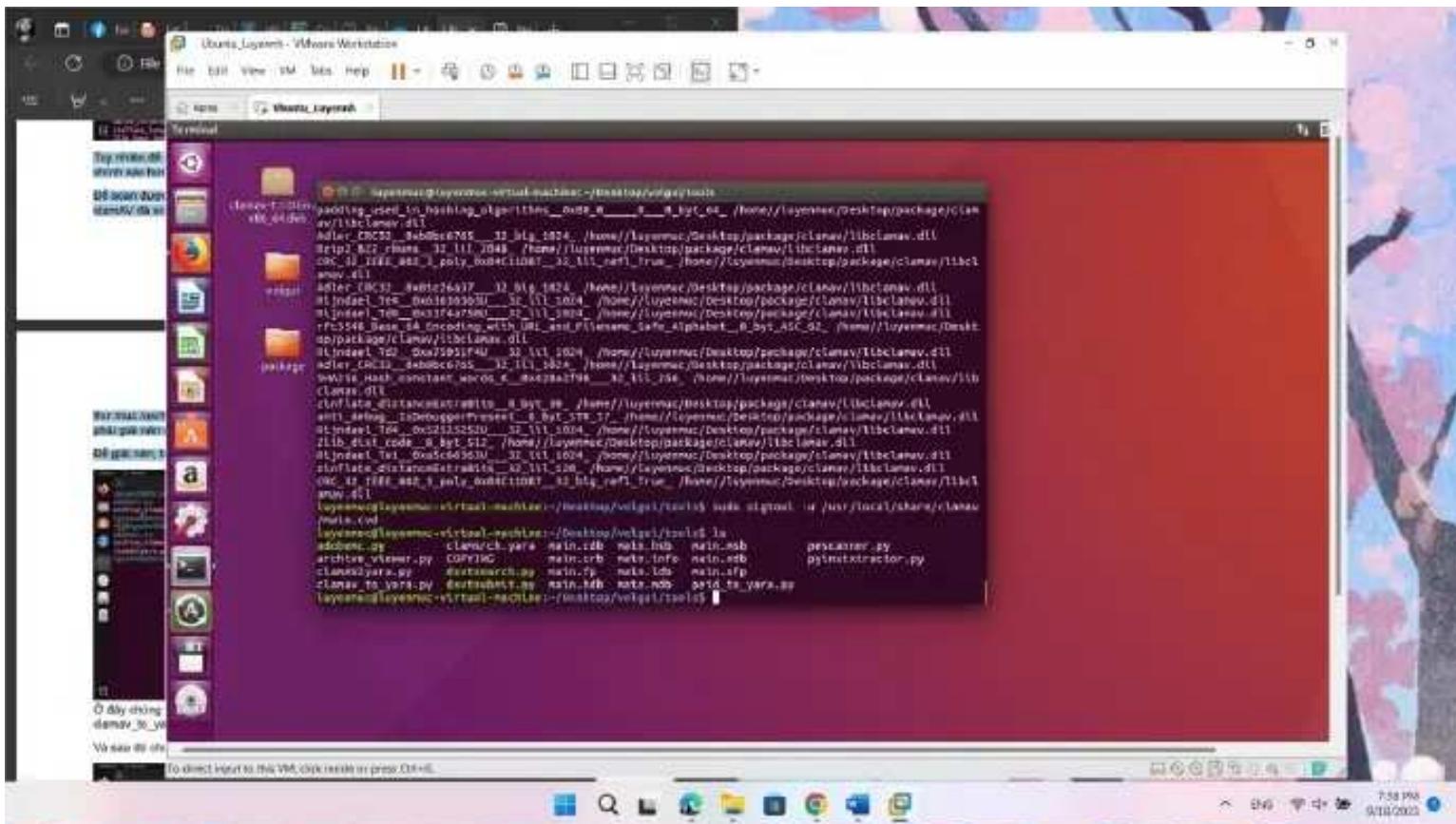
Personalization

Analytics

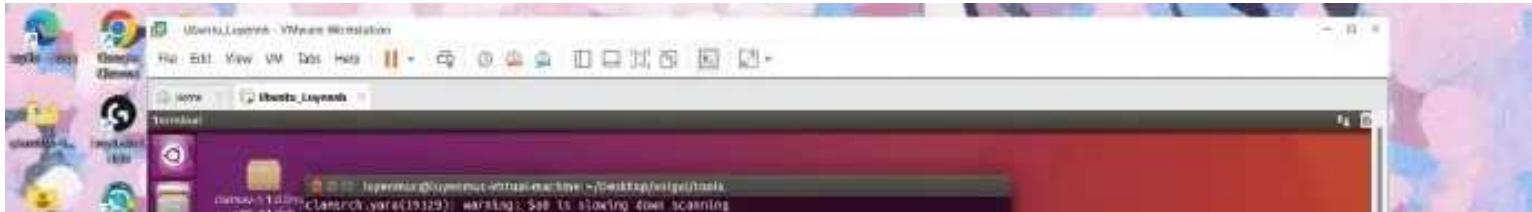
[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)



Ở đây chúng ta có thể thấy rằng file đã được giải nén ra là main.ndb. Sau đó sử dụng clamav_to_yara.py để chuyển đổi file thành file yara. Và sau đó chúng ta chúng ta



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

Personalization

Analytics

[Save preferences](#)

[Accept All](#)

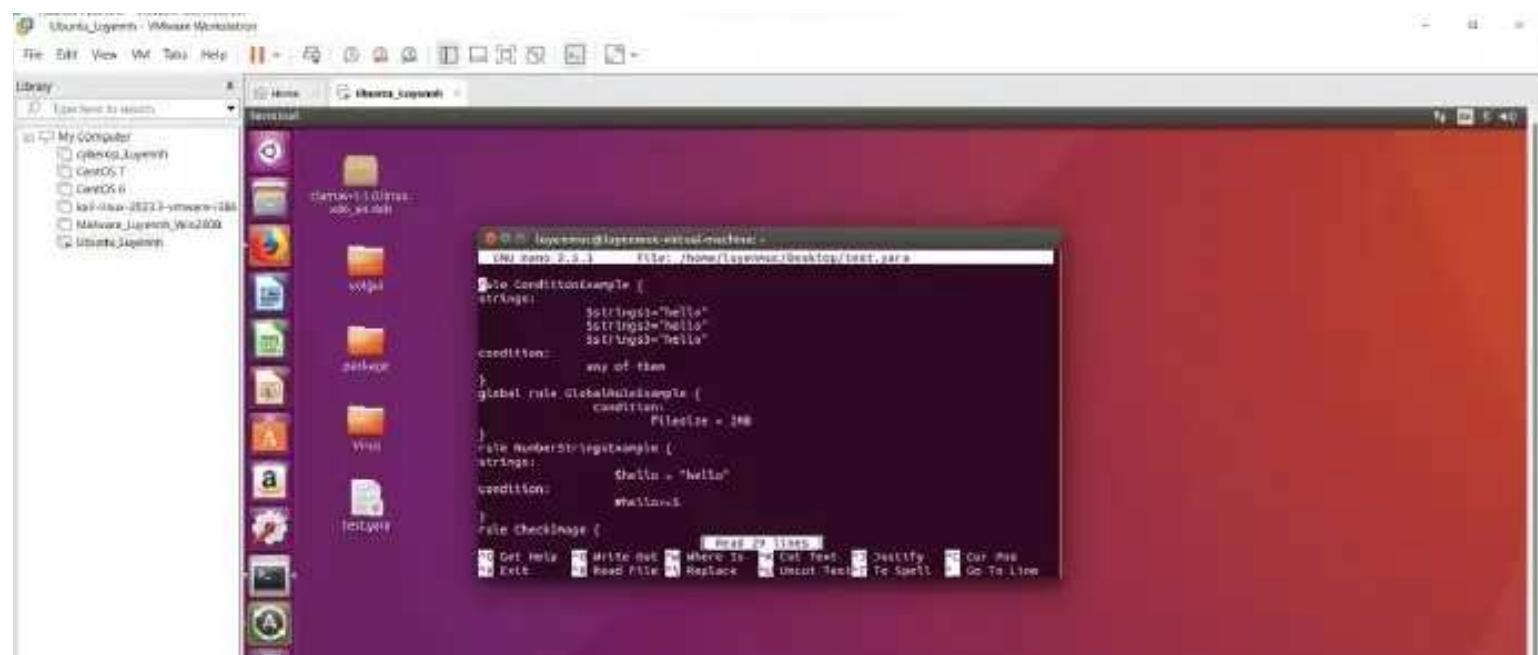
[Reject Non-Essential](#)

```
rule ConditionsExample { strings: $strings1="hello" $strings2="hello" $strings3="hello" condition: any of them }
```

Câu lệnh này sẽ check xem là trong file có chữ hello hay không, nếu có chữ hello thì sẽ match rule global rule GlobalRuleExample { condition: filesize < 2MB }, rule này sẽ bắt buộc yêu cầu filesize < 2MB, nếu bé hơn 2MB thì sẽ match

rule NumberOfStringsExample { strings: \$hello="hello" condition: #hello>=5 } rule này thiết lập một điều kiện rằng một biến chuỗi có tên \$hello phải xuất hiện trong tệp đang được quét, cụ thể là nó tìm kiếm chuỗi "hello".

rule CheckImage { strings: \$a ={89 50 4e 47 0d 0a 1a 0a} condition: any of them } rule này dùng để check một file png



We and our 21 IAB TCF partners store and access information on your device for the following purposes: store and/or access information on a device, advertising and content measurement, audience research, and services development, personalised advertising, and personalised content.

Personal data may be processed to do the following: use precise geolocation data and actively scan device characteristics for identification.

Our third party IAB TCF partners may store and access information on your device such as IP address and device characteristics. Our IAB TCF Partners may process this personal data on the basis of legitimate interest, or with your consent. You may change or withdraw your preferences at any time by clicking on the cookie icon or link; however, as a consequence, you may not see relevant ads or personalized content. You may change your settings at any time or accept the default settings. You may close this banner to continue with only essential cookies. [Privacy Policy](#)

[Storage Preferences](#)

[Third Parties](#)

Storage

Targeted Advertising

Personalization

Analytics

[Save preferences](#)

[Accept All](#)

[Reject Non-Essential](#)