

# APP100-M4-1-Assignment-Final Assignment

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**Due** No Due Date      **Points** 25      **Submitting** a text entry box or a file upload  
**File Types** ppt, pptx, pdf, doc, and docx

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## Abstract

Bug Bounties provide a way for government and industry to provide Application Security Testing from the public and offer prizes for finding the flaws. This has implications on the black hat side, where an unethical hacker could find the flaws, not report the flaw, and try to exploit it for even bigger gains. However, the incentives for finding these flaws can encourage white hats or gray hats to find and report them, thus preventing an unethical hacker from having the opportunity.

The objective of this final APP100 lab is to use the knowledge gained so far in APP100 to conduct some of the beginning phases of a penetration test. This is a team effort and will be the final project for APP100.

## Exercise Objective(s)

By the end of this lab, the student should be able to:

EO1: Apply the concepts from APP100 in searching for information relevant to the application testing against a web application

## System Requirements & Configuration

### System Requirements

Any physical or virtualized Windows, Linux, or Mac desktop or server operating systems, which will be referred to as the lab machine.

### Network Requirements

Internet access from the lab machine to the internet.


### Software Requirements

Any browser and root access to the command prompt/terminal, along with word processing software.

# Procedure – Detailed Lab Steps

## Base Lab

The target organization is Uber. Uber is partnered with HackerOne. Read and understand the details of what that entails as well as scope, expectations, and rules using the following link:

<https://hackerone.com/uber?type=team>  (<https://hackerone.com/uber?type=team>)

Using the skills gained so far in this course, **try** to answer the following questions **and provide evidence** of what was found:

Question	Hint
List all of Uber's subdomains	Recon-ng, Espial, Linux
List all of Uber's IP addresses	Recon-ng, Espial, Linux
List all of Uber's website technology? <ul style="list-style-type: none"> <li>◦ Type of web server(s)</li> <li>◦ Language(s)/stack</li> <li>◦ Database(s) being used</li> </ul>	Wapalyzer, Espial, web recon
Who hosts Uber's DNS?	Espial, whois
Who hosts Uber's servers?	Espial, whois
What are the MX records for Uber?	Espial, Linux
What are the whois points of contact?	Espial, whois
Identify 10 people that work at Uber	Web recon
Was any Uber application source code obtainable?	Android Mobile App
What type of corporation is Uber?	SoS information

How many services were discovered running on Uber's servers and what are they?	Nmap, Nessus, Linux
What is the naming convention of employee email addresses?	Web recon, Recon-ng
What is the naming convention of Active Directory domain accounts?	Metadata recon
What employee email addresses were found?	Web recon
What versions of SSL are supported?	SSL scanning
How many APIs were discovered?	Web recon
What are the highest risk vulnerabilities found?	Nessus
What banner information was obtained?	Ncat
Do any Uber websites support BASIC authentication?	Web recon, Espial
What breached Uber data was discovered?	Web recon
What is Uber's biggest cyber security risk?	

 **Submission:** Attach a copy of your Penetration Test Report with the appropriate sections filled in

## Advanced Lab (time permitting)

Consider registering an account with HackerOne and submitting anything interesting found as a result of this lab.

**Paper**

Criteria	Ratings				Pts
<p>Organization/Formatting</p> <p>Was the paper was laid out properly? Was the paper properly formatted (margins, paragraphs, etc)?</p>	<p><b>10 pts</b> <b>Excellent</b></p> <p>Paper properly formatted. Contains all relevant sections, content well laid out. Executive Summary, Lessons Learned, Recommended Actions, Detailed Analysis, Relevant References (ex: Compliance Materials), Bibliography</p>	<p><b>7 pts</b> <b>Good</b></p> <p>Contains all relevant sections, layout difficult to follow. Some formatting issues.</p>	<p><b>4 pts</b> <b>Fair</b></p> <p>Some sections missing or content lacking. Formatting inconsistent throughout.</p>	<p><b>0 pts</b> <b>Needs Improvement</b></p> <p>Content not split into sections. No formatting.</p>	10 pts
<p>Content</p> <p>Was the content in each of the sections relevant for that audience? Executives, C-Suite, IR Team, etc.</p>	<p><b>5 pts</b> <b>Excellent</b></p> <p>All sections contained the proper detail and was written correctly for the target audience.</p>	<p><b>3 pts</b> <b>Good</b></p> <p>Content was too technical in the management sections (Exec Summary, etc.) or content not detailed enough in Lessons Learned or other sections.</p>	<p><b>2 pts</b> <b>Fair</b></p> <p>Content missing or seriously lacking for one or more sections.</p>	<p><b>0 pts</b> <b>Needs Improvement</b></p> <p>Sections left blank</p>	5 pts
<p>Visuals</p> <p>Was the paper visually appealing? This includes both the visual appearance and the appropriate use of charts, graphs, etc</p>	<p><b>5 pts</b> <b>Excellent</b></p> <p>Paper visually appealing, appropriate use of charts, graphs, etc.</p>	<p><b>3 pts</b> <b>Good</b></p> <p>Paper not well presented, or charts, graphs lacking appropriate detail</p>	<p><b>2 pts</b> <b>Fair</b></p> <p>Too few graphs or other visuals</p>	<p><b>0 pts</b> <b>Needs Improvement</b></p> <p>No graphs or other visuals</p>	5 pts
<p>Spelling/Grammar</p>	<p><b>5 pts</b> <b>Excellent</b></p>	<p><b>3 pts</b> <b>Good</b></p>	<p><b>2 pts</b> <b>Fair</b></p>	<p><b>0 pts</b></p>	5 pts

Criteria	Ratings				Pts
Appropriate spelling and grammar usage.	No noticeable spelling or grammar errors.	Minimal spelling or grammar errors	Noticeable spelling or grammar errors	<b>Needs Improvement</b> Unacceptable number of spelling or grammar errors.	
Total Points: 25					

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