

```
root@kali:~/Desktop/Tools/Sublist3r# python sublist3r.py -d tesla.com
```

# Sublist3r

# Coded By Ahmed Aboul-Ela - @aboul3la

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```
www.tesla.com
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resources.tesla.com
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```

# Introduction to Bugcrowd University

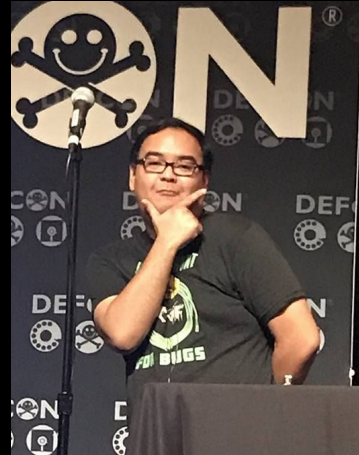


bugcrowd.com

# Module Trainers and Authors



Jason Haddix  
@jhaddix



JP Villanueva  
@swagnetow

# Bugcrowd University Introduction

1. What is BCU?
2. Module structure?
3. Bounty basics
4. How do Labs work?
5. Prerequisites
6. Tools
7. Resources



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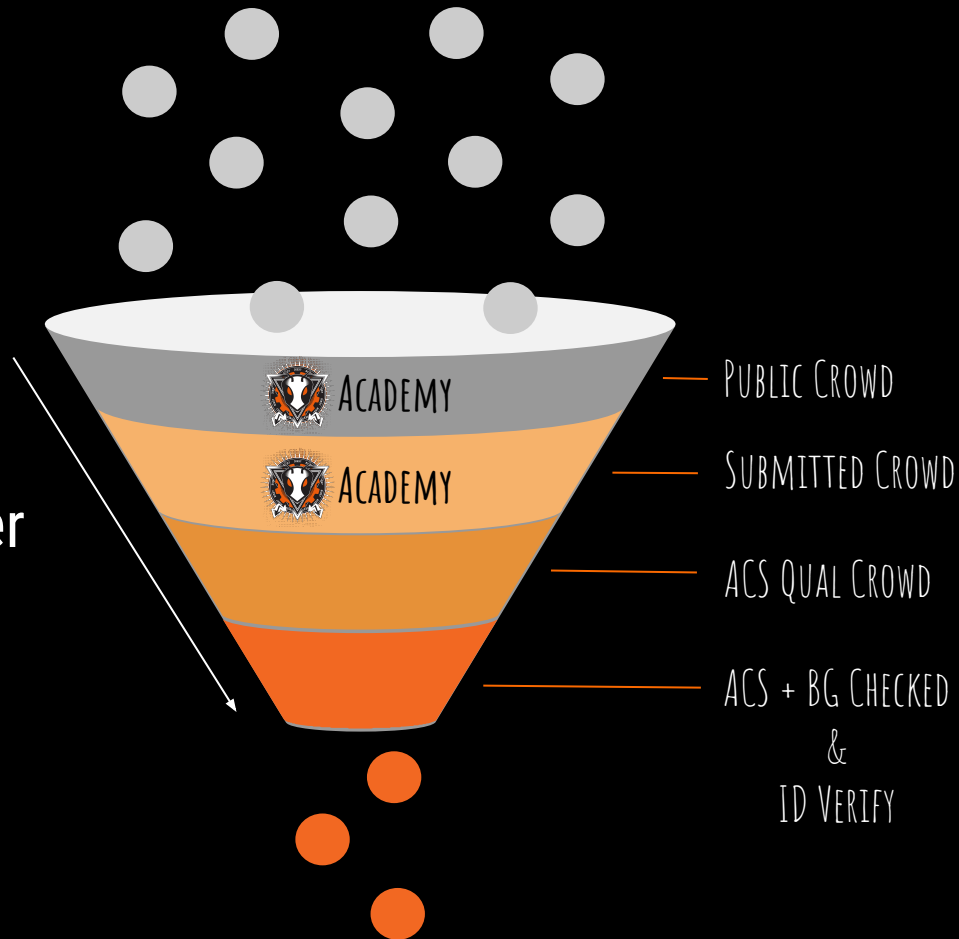
# What is BCU?

KA

# Goals

Level-up our crowd:

1. Analyze critical bug classes
2. Analyze common newcomer questions
3. **Bring training to the crowd**



# Modules

## Newcomer modules

### Phase 1

- Introduction to BCU
- What makes a good submission
- Introduction to Burp Suite
- Reconnaissance and Discovery

## Intermediate modules

- Insecure Direct Object References
- Security Misconfiguration
- Server Side Request Forgery

### Next phases

- Threat Modeling a Web Application
- XML External Entity Injection
- Web Services Testing
- Cross Site Scripting
- ++

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```

# Modules



# Each module has a few sections

Brief  
Introduction  
to the Topic

Where to  
find the bug

Variants,  
examples,  
and more

Tooling

Labs

Resources



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```

# Bounty Basics



# A Program Brief

bugcrowd

[How it Works](#) [Solutions](#) [Customers](#) [Resources](#) [Programs](#) [About](#)

[RESEARCHER SIGN UP](#) | [LOGIN](#)

[Request a Demo](#)

## Tesla

Accelerating the world's transition to sustainable energy

🏷️ \$100 – \$10,000 per vulnerability

📌 Managed by Bugcrowd

[SUBMIT REPORT](#)



[Program details](#) [Hall of Fame](#)

[Tweet](#) [Share 148](#)

Tesla values the work done by security researchers in improving the security of our products and service offerings. We are committed to working with this community to verify, reproduce, and respond to legitimate reported vulnerabilities. We encourage the community to participate in our responsible reporting process.

### For vehicle or product related services

While we use Bugcrowd as a platform for rewarding all issues, please report vehicle and product related issues directly to [vulnerability@teslamotors.com](mailto:vulnerability@teslamotors.com), using our GPG key to encrypt reports containing sensitive information.

### Third-party bugs

If issues reported to our bug bounty program affect a third-party library, external project, or another vendor, Tesla reserves the right to forward details of the issue to that party without further discussion with the researcher. We will do our best to coordinate and communicate with researchers through this process.

### Responsible Disclosure Guidelines

We will investigate legitimate reports and make every effort to quickly correct any vulnerability. To encourage responsible reporting, we will not take legal action against you nor ask law enforcement to investigate you providing you comply with the following Responsible Disclosure Guidelines:

- Provide details of the vulnerability, including information needed to reproduce and validate the vulnerability and a Proof of Concept (POC).
- Make a good faith effort to avoid privacy violations, destruction of data, and interruption or degradation of our services.
- Do not modify or access data that does not belong to you.
- Give Tesla a reasonable time to correct the issue before making any information public.

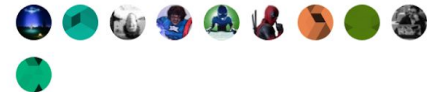
298 vulnerabilities rewarded

Validation within **3 days**

75% of submissions are accepted or rejected within 3 days

**\$957.97** average payout (last 3 months)

### Latest hall of famers



[View all 387](#)

# Targets

\*.something.com means any subdomains found are also in scope. Like:

admin.something.com

Also out of scope targets are listed.

A screenshot of a web application interface showing a list of targets. The interface is titled "Targets" and is divided into two main sections: "In scope" and "Out of scope". The "In scope" section contains several entries, each with a description and a category icon. The "Out of scope" section is highlighted with a red border and contains several entries, each with a domain name. A red arrow points from the text on the left to the first entry in the "In scope" section.

Targets	
<b>In scope</b>	
A hardware product that you own or are authorized to test against (Vehicle/PowerWall/etc.)	hardware
*.tesla.com	website
*.tesla.cn	website
*.teslamotors.com	website
*.tesla.services	website
Any host verified to be owned by Tesla Motors Inc. (domains/IP space/etc.)	website
Official Tesla Android apps	android
Official Tesla iOS apps	ios
<b>Out of scope</b>	
shop.eu.teslamotors.com	
feedback.teslamotors.com	
ir.teslamotors.com	
ir.tesla.com	
mkto.teslamotors.com	
Any other third-party websites hosted by non-Tesla entities	
Any SolarCity property, including *.solarcity.com	

# Reward tables and focus areas

Sometimes these tables can show you where to focus as well:

## Rewards

We pay rewards ranging from \$100 to \$10,000. Rewards are administered according to the following guidelines:

- RCE: Up to \$10,000
- SQLi: \$500–\$10,000
- XSS: \$100–\$1,000
- CSRF: \$100–\$500
- Authentication bypass: Up to \$10,000
- Horizontal privilege escalation: \$500–\$3,000
- Vertical privilege escalation: \$500–\$10,000
- Vehicle or product related vulnerabilities: case-by-case (report directly, see above)

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```

# Labs



# Labs

There are hundreds of open source labs and CTF challenges for module topics.

We will **curate** the best ones to help you learn the topic in as much depth as possible.

Students will set up their own lab environments.



[bugcrowd.com](https://bugcrowd.com)

Insecure Direct Object Reference

Bugcrowd Open Source Software Lab Guide



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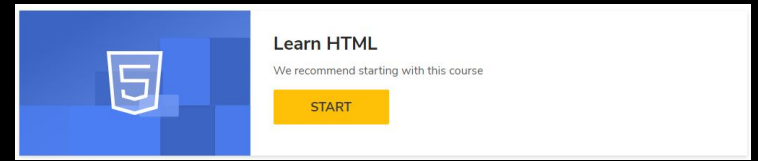
# Prerequisites



# Prerequisites

There is no “right” path to becoming a hacker. There are, however, some areas in which you will need to be familiar in to understand the module topics if you are starting from scratch.

We recommend the following **Codecademy** courses (or familiarity) before starting BCU:



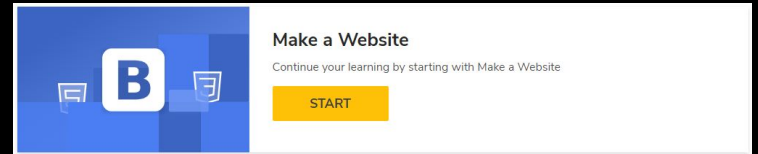
**Learn HTML**  
We recommend starting with this course

START



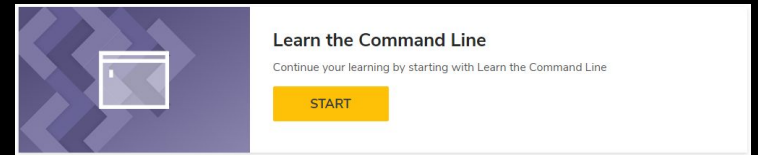
**Learn JavaScript**  
Continue your learning by starting with Learn JavaScript

START



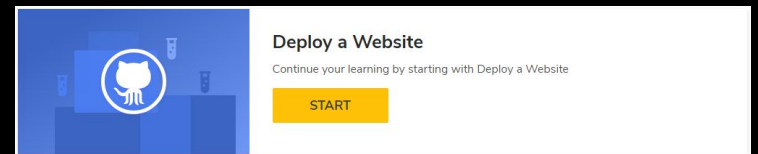
**Make a Website**  
Continue your learning by starting with Make a Website

START



**Learn the Command Line**  
Continue your learning by starting with Learn the Command Line

START

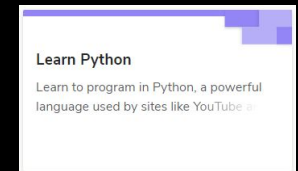


**Deploy a Website**  
Continue your learning by starting with Deploy a Website

START



**Learn SQL**  
Learn to communicate with databases using SQL, the standard data



**Learn Python**  
Learn to program in Python, a powerful language used by sites like YouTube



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```

# Core Toolset



# Portswigger's Burp Suite:

The screenshot displays the Burp Suite Professional v1.735 interface. The title bar indicates it is a temporary project licensed to Bugcrowd. The main menu includes Target, Proxy, Spider, Scanner, Intruder, Repeater, Sequencer, Decoder, Comparer, Extender, Project options, User options, and Alerts. The Site map tab is active, showing a tree view of the target site https://www.underarmour.com. The tree is filtered to hide 4xx responses. The selected node is the root of the site, which contains folders for en-us, api, static, and v1. The api folder contains sub-folders for cart, proxy, and US. The static folder contains assets, vendor, and css. The v1 folder contains content, navigation, and asset. The asset folder contains a module folder with several JavaScript files.

The Contents tab is also active, displaying a table of requests. The table has columns for Host, Method, URL, Params, Status, Length, MIME type, Title, and Comment. The selected request is a GET request to https://www.underarmour.com/en-us/.

Host	Method	URL	Params	Sta...	Length	MIME type	Title	Comment
https://www.underar...	GET	/en-us/		200	635513	HTML	Under Armour® Of...	
https://www.underar...	GET	/en-us/api/cart/prox...		200	1344	JSON		
https://www.underar...	GET	/en-us/api/live-chat-...		200	1214	JSON		
https://www.underar...	GET	/en-us/api/rec-zone/...		✓ 200	23232	JSON		
https://www.underar...	GET	/static/css/global.mi...	✓	✓ 200	539827	CSS		
https://www.underar...	GET	/static/css/modules...	✓	✓ 200	292471	CSS		
https://www.underar...	GET	/static/js/global.min...	✓	✓ 200	920963	script		
https://www.underar...	GET	/v1/content/navigatio...		200	138511	script		

The Request tab is active, showing the raw request for the selected request. The request is a GET request to https://www.underarmour.com/en-us/.

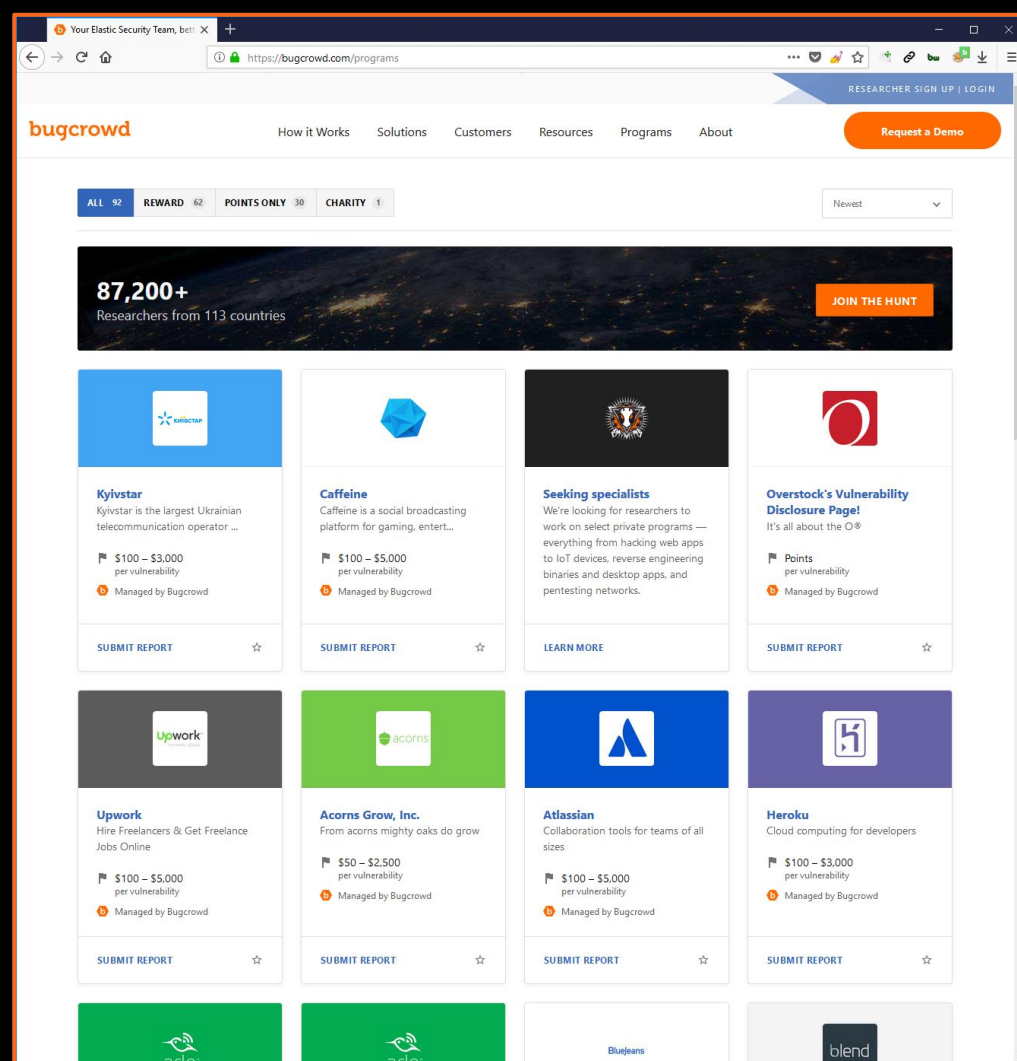
```
GET /en-us/ HTTP/1.1
Host: www.underarmour.com
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:61.0) Gecko/20100101 Firefox/61.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Cookie: XSRF-TOKEN=k9kByyFCoru3vPTy8cHQkT5dXBgO6;
mbbox=ession123bd82876f1325468eb5fd0e25bfcd61f1t231532598454t7CPCt23111532596467474-243493.17_83t231595
841394; mboxEdgeCluster=17; ua_isCheckOutRedesign=0; ua_isHygriid=0; ua_bopis=0; ua_analyticsTest=200;
ua_isStylitics=0; ua_isPDPRedesign=0;
ua.sid=s*3AJ0wtT9UciPkgUF0lv_mBtYl7e74xMe9.V3IRYfe56Z2CW5g9BDeYj2CFKPSBW7dR1Y4BtdtgUjI;
DCOrigin=OLD; uadPrevPage={"pageName":"HOME","pageType":"Content"};
cart_last_updated=1532596594518;J0wtT9UciPkgUF0lv_mBtYl7e74xMe9
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
```



# Firefox (or Chrome)

## Useful extensions:

- FoxyProxy
- BuiltWith or Wapplyzer
- Open Multiple URLs
- Copy Tab URLs
- Snap Links Plus
- Link Gopher



# Virtual machines

Several of the labs we will utilize will be virtual machines, ISOs, or require you to host a web server. To this end **Virtualbox** or **VMware** are required.

VM's you might find useful for training are a personal sandboxed **Ubuntu** install and possibly **Kali Linux**.



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nas-origin.tesla.com
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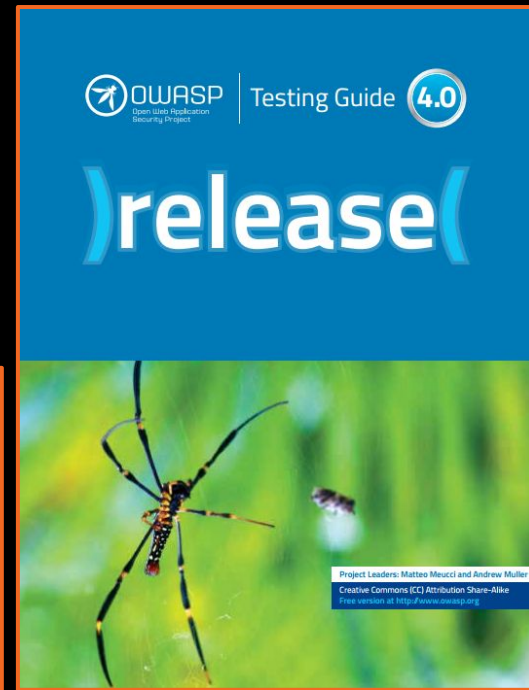
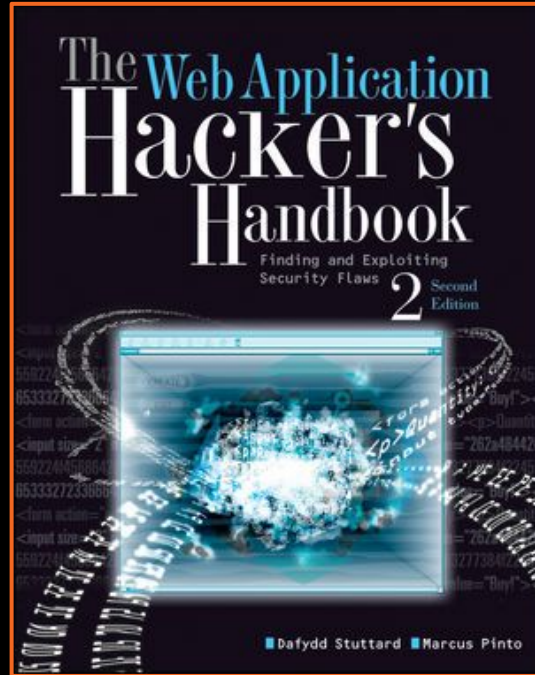
# Resources



# Related written course material


These two resources will be referenced in each module so you can read along and supplement BCU.

Many consider them to be the de facto web application hacking resources.



# OWASP Vulnerable Web Applications Directory Project

The OWASP  
VWADP keeps  
track of many  
of the  
industries  
vulnerable apps  
created for  
learning.



Page Discussion

Read View source View ht

## OWASP Vulnerable Web Applications Directory Project

Main On-Line apps **Off-Line apps** Virtual Machines or ISOs Acknowledgements Road Map and Getting Involved Project About

Vulnerable applications that have to be downloaded and used locally:

App Name / Link	Technology	Other links	Author	Notes
<a href="#">btstslab</a>	PHP			Includes flash-based xss, SSRF, and SSI
<a href="#">BadStore</a>	Perl(CGI)			
<a href="#">Bodgelt Store</a>	Java	<a href="#">download</a>		
<a href="#">Bricks</a>	PHP	<a href="#">download</a> <a href="#">docs</a>	OWASP	
<a href="#">Butterfly Security Project</a>	PHP	<a href="#">download</a>		Last updated in 2008
<a href="#">bWAPP</a>	PHP	<a href="#">download</a> <a href="#">docs</a>		
<a href="#">Cyclone Transfers</a>	Ruby on Rails			
<a href="#">Damn Vulnerable Node Application - DVNA</a>	Node.js	<a href="#">download</a>	Claudio Lacayo	
<a href="#">Damn Vulnerable Web Application - DVWA</a>	PHP	<a href="#">download</a>	RandomStorm	
<a href="#">Damn Vulnerable Web Service - DVWS</a>	PHP	<a href="#">download</a>	Secure Ideas (depreciated?)	
<a href="#">Damn Vulnerable Web Services - DVWS</a>	PHP		snoopysecurity	
<a href="#">Damn Vulnerable Thick Client App - DVTA</a>	C#.NET		secvulture	
<a href="#">Gruyere</a>	Python	<a href="#">download</a>	Google	
<a href="#">Hackademic Challenges Project</a>	PHP	<a href="#">download</a>	OWASP	
<a href="#">Hackazon</a>			Rapid7	Has some REST and new-school web components.
<a href="#">Hacme Bank - Android</a>			McAfee / Foundstone	
<a href="#">Hacme Bank</a>	.NET	<a href="#">download</a>	McAfee / Foundstone	
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<a href="#">NodeGoat</a>	Node.js	<a href="#">git repository</a>	OWASP	



# People to Follow

In order to stay cutting edge each module will contain a **Twitter list** of researchers or accounts who we consider to offer value or broadcast adverts related to the module topic.

**Mobile**  
A public list by Jason Haddix  
Mobile Hackery  
Members **33** Subscribers **15**  
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Tweets >  
List members >  
List subscribers >

**List members**

- Prateek Gianchandani** @prateekg147  
iOS Hacker. Nature Lover. [Following](#)
- Moloch** @LittleJoeTables  
I like computers [Follow](#)
- Aditya Agrawal** @exploitprotocol  
Author of PentestBox@pentestbox, Occasional Bug Bounty Participant. Raifan. Defence Enthusiast. Message me if i can be of any help. [Following](#)
- David Weinstein** @insitusec  
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- Zach Lanier** @quine  
Principal Research Consultant at @atredis | Opinions == mine. [Following](#)
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- Kendo Alex** @KendoXan  
A confusing mix Kendo, climbing, photography, music and digital forensics. There is no one group I fit in 😊 [Following](#)
- Kernel Quest** @crakun  
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