

### Step 1: Google Dorking

- Using Google, can you identify who the Chief Executive Officer of Altoro Mutual is:

The CEO of Altoro Mutual is Karl Fitzgerald

- How can this information be helpful to an attacker:

This information is useful to an attacker when used as part of a spear phishing email.  
This kind of attack directly to a CEO is known as whaling.

### Step 2: DNS and Domain Discovery

Enter the IP address for `demo.testfire.net` into Domain Dossier and answer the following questions based on the results:

1. Where is the company located:

Sunnyvale California

2. What is the NetRange IP address:

65.61.137.64 – 65.61.137.127

3. What is the company they use to store their infrastructure:

Rackspace

4. What is the IP address of the DNS server:

65.61.137.117

### Step 3: Shodan

- What open ports and running services did Shodan find:

Shodan found Port 80 – Apache HTTP, Port 443 – Apache HTTPS, and Port 8080  
Apache HTTP

### Step 4: Recon-ng

- Install the Recon module `xssed`.
- Set the source to `demo.testfire.net`.
- Run the module.

Is Altoro Mutual vulnerable to XSS: Yes

### Step 5: Zenmap

Your client has asked that you help identify any vulnerabilities with their file-sharing server. Using the Metasploitable machine to act as your client's server, complete the following:

- Command for Zenmap to run a service scan against the Metasploitable machine:

```
nmap -sV 192.168.0.10
```

- Bonus command to output results into a new text file named `zenmapscan.txt`:

```
nmap -sV -oN zenmapscan.txt 192.168.0.10
```

- Zenmap vulnerability script command:

```
nmap --script smb-vuln* -p 139,445 192.168.0.10
```

- Once you have identified this vulnerability, answer the following questions for your client:

1. What is the vulnerability: The vulnerability is a weakness in smb, which allows unauthorized access
2. Why is it dangerous: It is dangerous because it allows for data to be extracted
3. What mitigation strategies can you recommend for the client to protect their server: Recommended mitigation would be updating or patching Samba as soon as possible.