

Final Exam

- Due Apr 24, 2024 at 11:59pm
- Points 100
- Questions 18
- Available Apr 24, 2024 at 12am - Apr 24, 2024 at 11:59pm 23 hours and 59 minutes
- Time Limit 120 Minutes

Instructions

The final exam is available online at **12:00am Wed April 24th until 11:59pm same day**.

You will be given **120 minutes** and **one attempt** to complete it once you start the exam. It will include the topics we have covered after the midterm. There will be three types of questions: true/false, multiple-choice, and fill-in-the-blank.

The exam consists of **18 questions**.

Best of luck,

Mesut

This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	113 minutes	100 out of 100

Score for this quiz: 100 out of 100

Submitted Apr 24, 2024 at 11:44pm

This attempt took 113 minutes.



Question 1

5 / 5 pts

The DLL view of the ProcessExplorer tool (v.17.02 or later) from sysinternals.com can be used to monitor Registry keys being accessed by active processes.



Con.

☒ False



Question 2

5 / 5 pts

The event log files of Windows 10 systems are located by default in the folder C:\Windows\System32\Config, assuming C: is the system drive.

☐ True

Correct!

☒ False

Question 3

5 / 5 pts

In a Windows 10 system's event log the event of ID 4720 indicates a user account was created.

Correct!

☒ True☐ False

Question 4

5 / 5 pts

In text representation of IPv6 addresses, using the "::" notation the IPv6 address 2620:12A:0:0:1234:0:0:1 may be represented (compressed) as 2620:12A::1234::1.

☐ True

Correct!

☒ False

Question 5

5 / 5 pts

RFC 2460 (IPv6 Specification) elevated IPv6 in 2017 to an Internet Standard within the IETF protocols.

☐ True

Correct!

☒ False

Question 6

5 / 5 pts

There are no broadcast addresses in IPv6.

Correct!

- ☒ True
☐ False



Question 7

5 / 5 pts

The SMTP protocol uses port 25 for transporting emails.

Correct!

- ☒ True
☐ False



Question 8

5 / 5 pts

The open-source tool Snort can best be described as a network port scanner.

- ☐ True

Correct!

- ☒ False



Question 9

6 / 6 pts

Which of the following IPv6 address types has been deprecated?

- ☐ Link-Local unicast
☐ Global Unicast

Correct!

- ☒ Site-local unicast



Question 10

6 / 6 pts

The second frame in the 3-way handshake of a TCP session between two hosts has which of the following flag (or flags) set?

- ☐ SYN only

Correct!

- ☒ both SYN and ACK
☐ SYN only



Question 11

6 / 6 pts

When two hosts are engaged in a TCP connection in which the client makes the initial request to the server in frame 1, this frame's raw sequence number starts at

Correct!

- ☒ a random 32-bit value
- ☐ 0 (zero)
- ☐ a value pre-determined between the two hosts



Question 12

6 / 6 pts

Which of the following IP addresses belong to the subnet 192.168.240.1/20?

- ☐ 192.168.238.101

Correct!

- ☒ 192.168.250.15
- ☐ Neither one of the two choices



Question 13

6 / 6 pts

Consider the following email header (with the email body removed):

```
Received: from SJ0PR11MB5166.namprd11.prod.outlook.com (::1) by
  BN6PR11MB1283.namprd11.prod.outlook.com with HTTPS; Sun, 26 Mar 2023 01:56:59
  +0000
```

```
Received: from BN0PR04CA0091.namprd04.prod.outlook.com (2603:10b6:408:ec::6)
  by SJ0PR11MB5166.namprd11.prod.outlook.com (2603:10b6:a03:2d8::5) with
  Microsoft SMTP Server (version=TLS1_2,
  cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.6178.41; Sun, 26 Mar
  2023 01:56:56 +0000
```

```
Received: from BN1NAM02FT057.eop-nam02.prod.protection.outlook.com
  (2603:10b6:408:ec:cafe::f7) by BN0PR04CA0091.outlook.office365.com
  (2603:10b6:408:ec::6) with Microsoft SMTP Server (version=TLS1_2,
  cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.6178.41 via Frontend
  Transport; Sun, 26 Mar 2023 01:56:56 +0000
```

```
Authentication-Results: spf=softfail (sender IP is 103.168.135.199)
```



```
smtp.helo=strobo.id; dkim=none (message not signed) header.d=none;dmARC=none
action=none header.from=;
Received-SPF: SoftFail (protection.outlook.com: domain of transitioning
strobo.id discourages use of 103.168.135.199 as permitted sender)
Received: from strobo.id (103.168.135.199) by
BN1NAM02FT057.mail.protection.outlook.com (10.13.2.165) with Microsoft SMTP
Server (version=TLS1_2, cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id
15.20.6254.9 via Frontend Transport; Sun, 26 Mar 2023 01:56:54 +0000
Received: from User (unknown [194.55.224.96])
by strobo.id (Postfix) with SMTP id BC5092DDAA;
Sat, 25 Mar 2023 17:22:21 +0700 (WIB)
Reply-To: <andrewtwdiel@aliyun.com>
From: "From Antony J. Blinken"<<>>
Subject: Regarding Your Pending Fund Worth the sum of US$10,000,000.00
Date: Sat, 25 Mar 2023 03:22:31 -0700
MIME-Version: 1.0
Content-Type: text/html;
charset="Windows-1251"
Content-Transfer-Encoding: 7bit
```

Which of the following would be the non-local IP address closest to the source (sender) of this email?

- ☐ 103.168.135.199
- Correct!**
- ☒ 194.55.224.96
- ☐ 2603:10b6:408:ec::6



Question 14

6 / 6 pts

Which of the following tcpdump option flags is used to specify the maximum length for each of the captured packets ?

Correct!

- ☒ -s



Question 15

6 / 6 pts

Which option in Wireshark under View>Statistics will show connections between hosts; displays the packet time, direction, ports and comments for each captured connection?

- ☐ Endpoints
- ☐ Conversations

Correct!

- ☒ Flow Graph



Question 16

6 / 6 pts

The size/length of an IPv6 fixed header is [] bytes (in decimal value)

Correct!

40

Correct Answers

40



Question 17

6 / 6 pts

The size/length of an ARP (Address Resolution Protocol) packet in a TCP/IP network is [] bytes (in decimal value).

Correct!

28

Correct Answers

28



Question 18

6 / 6 pts

Consider a pcap file of 8 frames displayed in Wireshark's packet list pane (with 6 columns showing: frame number, seconds since the first captured packet, source, destination, protocol, and frame length). See below:

Frame Number	Time	Source	Destination	Protocol	Length
--------------	------	--------	-------------	----------	--------



1	0.000000	10.10.1.4	10.10.1.1	
DNS	76			
2	0.034025	10.10.1.1	10.10.1.4	
DNS	142			
3	0.036986	10.10.1.4	74.53.140.153	TCP
62				
4	0.383936	74.53.140.153	10.10.1.4	TCP
62				
5	0.383968	10.10.1.4	74.53.140.153	TCP
54				
6	0.727603	74.53.140.153	10.10.1.4	SMTP
235				
7	0.732749	10.10.1.4	74.53.140.153	SMTP
63				
8	1.073326	74.53.140.153	10.10.1.4	TCP
60				

If Wireshark's display filter is set to "ip.addr == 10.10.1.4" (without quotes), then [] frames (in decimal value) will be displayed after filtering.

Correct!

8

Correct Answers

8

Quiz Score: 100 out of 100

