Knowledge Check Quiz Case Study Week 11 (Ukraine Power Grid)

Due Apr 3 at 11:59pmPoints 17Questions 17Available until Apr 3 at 11:59pmTime Limit None

Instructions

Answer the following questions on the case study material this week.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	10 minutes	17 out of 17

Score for this quiz: **17** out of 17 Submitted Feb 14 at 11:21am This attempt took 10 minutes.

	Question 1	1 / 1 pts
	What was the target of the attack?	
	○ Bank	
	Water Services	
Correct!	Power Grid	
	Fuel Enrichment Plant	

Question 2 1 / 1 pts

	Where did the attack occur?	
Correct!	Ukraine	
	Europe and US	
	○ Iran	
	 Australia 	

	Question 3	1 / 1 pts
	When did the first attack occur?	
	O April 2014	
	O April 2000	
	O December 2016	
Correct!	December 2015	

	Question 4	1 / 1 pts
	When did the second attack occur?	
	O April 2000	
Correct!	December 2016	

- April 2014
- December 2015

What was the impact from these attacks?

Raw sewage was spilled
Personally Identifiable Information stolen

Credit card information stolen

Power outages

What makes this case study significant? Malware introduced to critical infrastructure Wide spread attack on credit card terminals Exposed personally identifiable information Attack on security service for targeted victims

Question 7 1 / 1 pts

Correct!

How did these attacks occur? Phishing campaign to introduce malware PING flood and botnets attacked websites Radio signals to SCADA devices causing pumps to fail Malware introduced by contractors carrying USB sticks

Question 8	1 / 1 pts
What technical concerns contributed to this incident?	
Adobe Flash vulnerability used to inject malicious code	
Malware targeted industrial control systems	
Radio signals to SCADA devices causing pumps to fail	
RAM scraping malware installed on Point of Sale terminals	
	What technical concerns contributed to this incident? Adobe Flash vulnerability used to inject malicious code Malware targeted industrial control systems Radio signals to SCADA devices causing pumps to fail

	Question 9	1 / 1 pts
	What human behavior contributed to this incident?	
	Misinterpreted attacks as normal failures	
Correct!	Employee opens attachment on phishing email	
	Disgruntled employee sabotaged operations	

Ontractor USB sticks used to install malware

Question 10	1 / 1 pts
What business decisions contributed to this incident?	
Business networks connected to ICS network	
Announced security patch not installed	
Workarounds to address problem equipment masked attack	
Old versions of Office and Windows	
	What business decisions contributed to this incident? Business networks connected to ICS network Announced security patch not installed Workarounds to address problem equipment masked attack

	Question 11	1 / 1 pts
	Which malware was used in the first attack?	
Correct!	Black Energy	
	Stuxnet	
	O Poison Ivy	
	Crash Override	

Question 12	1 / 1 pts

Which malware was used in the second attack?
Black Energy
Crash Override
O Poison Ivy
Stuxnet

Which recommendation for improving ICS security relates to Architecture? Perform network security monitoring Properly segment networks from each other Use backup and recovery tools to take digital images of selected systems DMZs and properly tuned firewalls between network segments

Which recommendation for improving ICS security relates to Passive Defense? Plan and train to incident response plans

Which recommendation for improving ICS security relates to Active Defense? Ensure logging is enabled on devices Train defenders to hunt for odd communications Limit remote connections only to personnel that need them Establish a central logging and data aggregation point

	Question 16	1 / 1 pts	
	Which of the following characteristics is true for the first attack ?		
	O Portion of capital region impacted		
Correct!	Telephone Denial of Service		
	Outage lasted 1 hour		

	Question 17	1 / 1 pts
	Which of the following characteristics is true for the second attack ?	
	225,000 customers impacted	
	50+ substations attacked	
	Outage lasted several hours	
Correct!	Denial of Service attack on protective relays	

Quiz Score: 17 out of 17