Knowledge Check Quiz Case Study Week 4 (Natanz)

Due Feb 13 at 11:59pm **Points** 15 **Questions** 15 **Available** until Feb 13 at 11:59pm **Time Limit** None

Instructions

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

Attempt History

LATEST Attempt 1 23 minute	s 15 out of 15

Score for this quiz: **15** out of 15 Submitted Jan 21 at 1:44pm This attempt took 23 minutes.

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

Question 2 1 / 1 pts

1/21/22, 1:45 PM

	Where did the attack occur?	
	O Estonia	
Correct!	Iran	
	O Australia	
	O Ukraine	
	Question 3	1 / 1 pts
	When was the attack discovered ?	
Correct!	June 2010	
	O April 2014	
	O December 2015	
	O April 2000	

	Question 4	1 / 1 pts	
	What was the duration of this attack?		
	O Months		
	O Days		
Correct!	Years		

Knowledge Check Ouiz Case Study Week 4 (Natanz): Case Studies	se Studies In	ı
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	O Weeks	
	Question 5	1 / 1 pts
	What was the impact from the attack?	
	Credit card information stolen	
Correct!	Centrifuges were damaged	
	Widespread power outages	
	Raw sewage was spilled	

	Question 6	1 / 1 pts
	What makes this case study significant ?	
	Supply chain attack on industrial control systems	
	Denial of service attack on critical infrastructure	
Correct!	Cyber physical attack	
	Insider attack on industrial control systems	

Question 7	1 / 1 pts

	How did the attack occur?
	Hackers stole credentials from HVAC vendor
	Phishing campaign to gain credentials
Correct!	Malware introduced to manipulate control systems to damage equipment
	Distributed denial of service attack on government websites

	Question 8	1 / 1 pts
	What technical concerns contributed to this incident?	
Correct!	Malware designed to impose damage	
	Adobe Flash vulnerability used to inject malicious code	
	SCADA system insecure	
	O PING flood and botnets	

	Question 9	1 / 1 pts
	What human behavior contributed to this incident?	
Correct!	Contractor USB sticks used to install malware	

Knowledge Check O	Duiz Case Study	Week 4	(Natanz)	: Case	Studies In
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Security team ignored warnings from anti-intrusion system	
Disgruntled employee sabotaged operations	
Employees open attachment on phishing email	
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	Question 10	1 / 1 pts
	What business decisions contributed to this incident?	
	Old versions of Office and Windows	
	Server did not receive two-factor authentication update	
Correct!	Contractors allowed access to networks	
	Security patch not installed	

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

	Question 12 1 / 1 pts	
	Which 2 attack routines were used to manipulate the centrifuge rotors?	
	Cascade Protection System and fieldbus	
	O SCADA and Step7	
Correct!	Over-pressure and over-speed	
	O Product and tails	

	Question 13 1 / 1 pts	
Which layer of a cyber-physical attack spreads the malware		
Correct!	Information Technology	
	O Communications	
	O Physical	
	O Industrial Control System	

Question 14	1 / 1 pts
What was the goal of the Natanz cyber attack?	

	Zero-day attack on the uranium enrichment servers
	Destroy more centrifuges than were available for replacement
Correct!	Damage that would appear as a reliability issue
	Catastrophic failure in the Cascade Protection System

	Question 15	pts
	What is a fieldbus ?	
	Computer that is used to configure the industrial controllers	
	Category of computer programs used to display and analyze process conditions	
	Signals that are passed between peripherals and program logic by attack code	
Correct!	Realtime micro-network for connecting automation peripherals	

Quiz Score: 15 out of 15