Exercise Week 4: Industrial Control System Security (Individual)

Due Feb 13 at 11:59pmPoints 10Questions 10Available until Feb 13 at 11:59pmTime Limit None

Instructions

Answer the following questions applying concepts from NIST 800-82 Guide to Industrial Control Systems (ICS) Security.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	32 minutes	10 out of 10

Score for this quiz: **10** out of 10 Submitted Jan 21 at 2:38pm This attempt took 32 minutes.

Is the following statement true of false? A Programmable Logic Controller (PLC) that is implemented as a field device is a Remote Terminal Unit (RTU).	
True False	
	grammable Logic Controller (PLC) that is impleme e is a Remote Terminal Unit (RTU). True

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	Question 2	1 / 1 pts	
	Is the following statement true of false? An Intelligent Electronic Device (IED) is a hardware-enforced unidirectional gateway.		
Correct!	TrueFalse		
	Question 3	1 / 1 pts	
	SCADA systems have security built in for encrypted communications.		
	O True		
Correct!	False		
	Question 4	1 / 1 pts	
	When a Man-in-the-Middle attack is successful, the hosts on a are unaware that their data is taking a different route through attacker's computer.		
Correct!	True		
	O False		

	Question 5	1 pts
	What do operators and engineers use to remotely adjust and establish parameters in the controller?	
	O PLC	
Correct!	НМІ	
	O RTU	
	Opsc	

	Question 6 1/1 pts	
	When designing the ICS security architecture we establish a DMZ using a network segment inserted as a "neutral zone" between security domains. What type of SCADA security strategy is this?	
	O Data Diode	
Correct!	Boundary Protection	
	Man-in-the-Middle	
	Authentication and Authorization	

When designing the ICS security architecture we implement a multiple layer strategy that includes firewalls, DMZs, intrusion detection, effective security policies, incident response mechanisms, and physical security. What type of SCADA security strategy is this? Obefense-in-Depth Obstributed Control Systems Redundancy and Fault Tolerance Authentication

Question 8	1 / 1 pts

	When designing the ICS security architecture we organize the ICS devices into operational LANs, control LANS, and operational DMZs separate from the corporate LANs. What type of SCADA security strategy is this?
	O Unidirectional Gateway
	O Intrusion Detection
	O Fault Tolerance
Correct!	Network Segmentation

Question 9	1 / 1 pts
When designing the ICS security architecture we make connections between the control network and the corp through a firewall.	
What type of SCADA security strategy is this?	
O Incident Detection	
O Monitoring	
O Redundancy	
Network Segregation	
	When designing the ICS security architecture we make connections between the control network and the corp through a firewall. What type of SCADA security strategy is this? Incident Detection Monitoring Redundancy

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	Question 10 1 / 1	pts
	When designing the ICS security architecture we establish user access privileges based on their role and their need to access the systems and networks. What type of SCADA security strategy is this?	
	Redundancy and Fault Tolerance	
	Monitoring and Logging	
Correct!	rect!	
	Network Segmentation and Segregation	

Quiz Score: 10 out of 10