

Échelle d'évaluation standard : <b>B (% de réussite compris entre 50 et 75%)</b>	Échelle d'évaluation pondérée : <b>B (% de réussite compris entre 50 et 75%)</b>
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EN - Système d'informations et sécurité - CCTL - I

Échelle d'évaluation standard : <b>B (% de réussite compris entre 50 et 75%)</b>
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Question 1	Question à réponse unique
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What is the main function of a router in an information system?

Réponses correctes

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input type="checkbox"/>	<input type="checkbox"/>	Non	Filtering data packets
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Linking different networks
C	<input type="checkbox"/>	<input type="checkbox"/>	Non	Managing file access permissions
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	Monitoring network traffic
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Hosting DNS servers

Question 2	Question à réponse unique
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What are the three main layers of an information system?

Réponses correctes

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Hardware layer, software layer, network layer
B	<input type="checkbox"/>	<input type="checkbox"/>	Non	Application layer, network layer, physical layer
C	<input type="checkbox"/>	<input type="checkbox"/>	Non	User layer, transport layer, data layer
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	Hardware layer, software layer, management layer
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Security layer, logic layer, hardware layer

Question 3	Question à réponse unique
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In a corporate network, what is used to segment the network into distinct subnetworks?

Réponses correctes

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input type="checkbox"/>	<input type="checkbox"/>	Non	A router
B	<input type="checkbox"/>	<input type="checkbox"/>	Non	A switch
C	<input type="checkbox"/>	<input type="checkbox"/>	Non	A firewall
D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	A VLAN
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	A Wi-Fi antenna

Question 4

Question à réponses multiples

What are the main characteristics of a VLAN in an information system?

Réponses partiellement correctes

1 discordance

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	It creates virtual sub-networks within a single physical network
B	<input type="checkbox"/>	<input type="checkbox"/>	Non	It speeds up Internet connections
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	It secures access to shared resources
D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	It reduces traffic by isolating departments
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	It automatically doubles the available bandwidth

Question 5

Question à réponses multiples

What can a firewall do to secure a corporate network?

Réponses partiellement correctes

1 discordance

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	Block DDoS attacks
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Filter incoming and outgoing traffic
C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Analyze data packets according to security rules
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	Create VPN connections
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Replicate sensitive data in a secure cloud

Question 6

Question à réponse unique

What technology is used to guarantee the confidentiality of remote communications in an information system?

Réponses correctes

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input type="checkbox"/>	<input type="checkbox"/>	Non	VLAN
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	VPN
C	<input type="checkbox"/>	<input type="checkbox"/>	Non	Firewall
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	Cloud
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Protocol FTP

Question 7

Question à réponse unique

What is the main function of Active Directory in an information system?

Réponses correctes

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input type="checkbox"/>	<input type="checkbox"/>	Non	Save data
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Manage user access rights
C	<input type="checkbox"/>	<input type="checkbox"/>	Non	Control Internet access
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	Securing VPN connections
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Optimize network bandwidth

Question 8

Question à réponse unique

In a cloud computing context, what is the main difference between a public cloud and a private cloud?

Réponses correctes

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Private clouds are used exclusively by a single company
B	<input type="checkbox"/>	<input type="checkbox"/>	Non	Public clouds are less secure than private clouds
C	<input type="checkbox"/>	<input type="checkbox"/>	Non	The public cloud is more expensive
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	Private clouds offer less flexibility than public clouds
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	The public cloud does not allow data backup

Question 9

Question à réponses multiples

How should an enterprise file server be protected?

Réponses partiellement correctes1 discordance

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input type="checkbox"/>	<input type="checkbox"/>	Non	By connecting it directly to the Internet
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	By applying GPOs to limit access
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	By activating a VPN for remote access
D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	By placing it in a dedicated VLAN
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	By configuring it in public network mode

Question 10

Question à réponse unique

What is the main role of a cloud backup?

Réponses correctes

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input type="checkbox"/>	<input type="checkbox"/>	Non	Improve data processing speed
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Guarantee rapid recovery in the event of a disaster
C	<input type="checkbox"/>	<input type="checkbox"/>	Non	Facilitate remote data access
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	Reduce physical server costs
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Automatically delete old file versions

Question 11

Question à réponses multiples

What measures are essential to protect sensitive company data?

Réponses partiellement correctes1 discordance

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Use complex passwords
B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	Install antivirus software
C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Apply access control policies via GPO
D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Set up VLANs to separate departments
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Disable Windows firewalls

Question 12

Question à réponses multiples

How does network segmentation via VLAN contribute to the security of an information system?

Réponses partiellement correctes1 discordance

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	It prevents unauthorized users from accessing other departments' resources
B	<input type="checkbox"/>	<input type="checkbox"/>	Non	It improves data processing speed
C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	It reduces internal threats by limiting unnecessary data movement
D	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	It enables secure communications between users
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	It completely eliminates the risk of external intrusion

Question 13

Question à réponses multiples

What tools are needed to administer a Linux server in a network environment?

Réponses incorrectes

4 discordances

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Oui (+1)	SSH
B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	GPO
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	DNS
D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Oui (+1)	IPTables
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Gnome

Question 14

Question à réponses multiples

What is the main function of GPOs in a network infrastructure?

Réponses partiellement correctes

1 discordance

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	Automatic software updates
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Defining access permissions to network resources
C	<input type="checkbox"/>	<input type="checkbox"/>	Non	Managing Internet connections
D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Applying security policies to workstations

Question 15

Question à réponses multiples

Which of these defenses can enhance network security against cyber attacks?

Réponses partiellement correctes

1 discordance

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	IDS
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Antivirus
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	VLAN
D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Firewall
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Use of default passwords

Question 16

Question à réponse unique

What is a "phishing" attack?

Réponses correctes

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input type="checkbox"/>	<input type="checkbox"/>	Non	An attack that overloads a server with requests
B	<input type="checkbox"/>	<input type="checkbox"/>	Non	An attack to spy on network communications
C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	An attack aimed at stealing sensitive information via fake emails
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	An attack exploiting a security flaw in software
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	An attack that blocks the network

Question 17

Question à réponses multiples

What security measures are recommended for remote IS access by employees?

Réponses partiellement correctes2 discordances

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	Use VLANs
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Set up a VPN
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	Install an antivirus
D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Configure two-factor authentication (2FA)
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Disable internal firewalls

Question 18

Question à réponses multiples

What procedures need to be put in place to limit the risks associated with installing unauthorized software on workstations?

Réponses partiellement correctes1 discordance

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Apply GPOs to prevent installation of unapproved software
B	<input type="checkbox"/>	<input type="checkbox"/>	Non	Set up a single sign-on (SSO) system
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	Disable UAC
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	Activate VLANs to isolate users
E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Limit administrator privileges to users

Question 19

Question à réponse unique

Why is it important to keep IS software up to date?

Réponses correctes

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input type="checkbox"/>	<input type="checkbox"/>	Non	To automatically delete obsolete data
B	<input type="checkbox"/>	<input type="checkbox"/>	Non	To ensure compatibility with new equipment
C	<input type="checkbox"/>	<input type="checkbox"/>	Non	To prevent users from circumventing security rules
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	To improve server performance
E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	To avoid security loopholes exploited by cyber attackers

Question 20

Question à réponses multiples

What are the most common vulnerabilities in a computer network?

Réponses correctes0 discordance

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Use of weak passwords
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	No network segmentation
C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Incorrect firewall configuration
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	Regular backups in the cloud
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Wi-Fi networks disabled

Question 21

Question à réponses multiples

What measures can be put in place to prevent internal IS attacks?

Réponses partiellement correctes1 discordance

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Segmenting networks with VLANs
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Limiting access rights via GPO
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	Enabling a VPN for teleworking employees
D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Setting up regular safety audits
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Default administrator access for all users

Which security concept is essential for managing access rights to systems and files in a company?

Réponses incorrectes				
	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Oui (+1)	Least Privilege
B	<input type="checkbox"/>	<input type="checkbox"/>	Non	Full Access
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	Zero Trust
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	Multi-Factor Authentication
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Universal Trust

What are the steps involved in setting up a secure server in a cloud environment?

Réponses partiellement correctes			1 discordance	
	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Configure a firewall for the server
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Apply regular security updates
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	Activate a VPN for remote management
D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Back up data regularly
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Disable communication encryption

How can a network administrator ensure the confidentiality of data transmitted between two remote sites?

Réponses partiellement correctes			2 discordances	
	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	By using a VPN
B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	By encrypting data in transit
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	By segmenting the network with VLANs
D	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oui (+1)	By configuring complex passwords for users
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	By using open network shares



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Question 25

Question à réponses multiples

What's the best way to guarantee data security in the cloud?

Réponses correctes

0 discordance

	Réponse attendue	Réponse saisie	Réponse discordante	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Using data encryption services
B	<input type="checkbox"/>	<input type="checkbox"/>	Non	Hosting critical applications in the public cloud
C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Non	Setting up rigorous access permissions
D	<input type="checkbox"/>	<input type="checkbox"/>	Non	Saving data on local servers only
E	<input type="checkbox"/>	<input type="checkbox"/>	Non	Sharing access keys with all users