



# CCZT<sup>Q&As</sup>

Certificate of Competence in Zero Trust (CCZT)

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**QUESTION 1**

Of the following, which option is a prerequisite action to understand the organization's protect surface clearly?

- A. Data and asset classification
- B. Threat intelligence capability and monitoring
- C. Gap analysis of the organization's threat landscape
- D. To have the latest risk register for controls implementation

Correct Answer: A

Data and asset classification is a prerequisite action to understand the organization's protect surface clearly because it helps to identify the most critical and sensitive data and assets that need to be protected by Zero Trust principles. Data and asset classification also helps to define the appropriate policies and controls for different levels of data and asset sensitivity. References: Certificate of Competence in Zero Trust (CCZT) - Cloud Security Alliance, Zero Trust Training (ZTT) - Module 2: Data and Asset Classification

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**QUESTION 2**

How can device impersonation attacks be effectively prevented in a ZTA?

- A. Strict access control
- B. Micro-segmentation
- C. Organizational asset management
- D. Single packet authorization (SPA)

Correct Answer: D

SPA is a security protocol that prevents device impersonation attacks in a ZTA by hiding the network infrastructure from unauthorized and unauthenticated users. SPA uses a single encrypted packet to convey the user's identity and request access to a resource. The SPA packet must be digitally signed and authenticated by the SPA server before granting access. This ensures that only authorized devices can send valid SPA packets and prevents spoofing, replay, or brute-force attacks<sup>12</sup>.

References:

Zero Trust: Single Packet Authorization | Passive authorization Single Packet Authorization | Linux Journal

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**QUESTION 3**

ZT project implementation requires prioritization as part of the overall ZT project planning activities. One area to consider is \_\_\_\_\_. Select the best answer.

- A. prioritization based on risks



- B. prioritization based on budget
- C. prioritization based on management support
- D. prioritization based on milestones

Correct Answer: A

ZT project implementation requires prioritization as part of the overall ZT project planning activities. One area to consider is prioritization based on risks, which means that the organization should identify and assess the potential threats,

vulnerabilities, and impacts that could affect its assets, operations, and reputation, and prioritize the ZT initiatives that address the most critical and urgent risks. Prioritization based on risks helps to align the ZT project with the business objectives and needs, and optimize the use of resources and time.

References:

Zero Trust Planning - Cloud Security Alliance, section "Scope, Priority, and Business Case"

The Zero Trust Journey: 4 Phases of Implementation - SEI Blog, section "Second Phase: Assess"

Planning for a Zero Trust Architecture: A Planning Guide for Federal ..., section "Gap Analysis"

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#### QUESTION 4

To ensure an acceptable user experience when implementing SDP, a security architect should collaborate with IT to do what?

- A. Plan to release SDP as part of a single major change or a "big-bang" implementation.
- B. Model and plan the user experience, client software distribution, and device onboarding processes.
- C. Build the business case for SDP, based on cost modeling and business value.
- D. Advise IT stakeholders that the security team will fully manage all aspects of the SDP rollout.

Correct Answer: B

To ensure an acceptable user experience when implementing SDP, a security architect should collaborate with IT to model and plan the user experience, client software distribution, and device onboarding processes. This is because SDP requires users to install and use client software to access the protected resources, and the user experience may vary depending on the device type, operating system, network conditions, and security policies. By modeling and planning the user experience, the security architect and IT can ensure that the SDP implementation is user-friendly, consistent, and secure. References: Certificate of Competence in Zero Trust (CCZT) - Cloud Security Alliance, Zero Trust Training (ZTT)

-Module 7: Network Infrastructure and SDP

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#### QUESTION 5

What is one benefit of the protect surface in a ZTA for an organization implementing controls?



- A. Controls can be implemented at all ingress and egress points of the network and minimize risk.
- B. Controls can be implemented at the perimeter of the network and minimize risk.
- C. Controls can be moved away from the asset and minimize risk.
- D. Controls can be moved closer to the asset and minimize risk.

Correct Answer: D

The protect surface in a ZTA is the collection of sensitive data, assets, applications, and services (DAAS) that require protection from threats<sup>1</sup>. One benefit of the protect surface in a ZTA for an organization implementing controls is that it allows the controls to be moved closer to the asset and minimize risk. This means that instead of relying on a single perimeter or boundary to protect the entire network, ZTA enables granular and dynamic controls that are applied at or near the DAAS components, based on the principle of least privilege<sup>2</sup>. This reduces the attack surface and the potential impact of a breach, as well as improves the visibility and agility of the security posture<sup>3</sup>. References: Zero Trust Architecture | NIST Zero Trust Architecture Explained: A Step-by-Step Approach - Comparitech What is Zero Trust Architecture (ZTA)? - CrowdStrike

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