

Army ICTL Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. In a Smurf attack, ping requests are sent to the broadcast address to cause many devices to respond to the spoofed target.**
 - A. In a Smurf attack, ping requests are sent to the broadcast address to cause many devices to respond to the spoofed target.**
 - B. To directly ping the attacker.**
 - C. To update routing tables.**
 - D. To test connectivity.**

- 2. In Linux, what does the rwx notation represent?**
 - A. User ownership only, no group or others**
 - B. Directory size in bytes**
 - C. File and directory permissions for user/group/others (read, write, execute)**
 - D. Network permissions**

- 3. Session is defined as what in networking?**
 - A. A time-limited password exchange**
 - B. A virtual connection between two hosts by which network traffic is passed**
 - C. A single message sent between processes**
 - D. A physical wire between devices**

- 4. In disaster recovery planning, what do RPO and RTO specify?**
 - A. RPO is recovery time objective; RTO is recovery point objective.**
 - B. RPO is maximum acceptable data loss window; RTO is maximum acceptable downtime.**
 - C. RPO is downtime; RTO is data loss.**
 - D. RPO and RTO have no relation to backup planning.**

- 5. Which option best describes the consequence of weak authentication in IoT devices?**
 - A. Unaffected security.**
 - B. Stronger security.**
 - C. Potential security risk due to unauthorized access.**
 - D. Lower maintenance.**

- 6. What type of protocol is Routing Information Protocol (RIP)?**
- A. Link-state protocol**
 - B. Path-vector protocol**
 - C. Distance vector protocol**
 - D. Hybrid protocol**
- 7. What is MDM and why is it important for Army mobile devices?**
- A. Mobile Data Management; organizes data on devices.**
 - B. Mobile Device Management; enforces security policies, app controls, encryption, remote wipe, and inventory.**
 - C. Media Distribution Management; handles firmware.**
 - D. Machine Device Monitoring; tracks device performance.**
- 8. Which networking device broadcasts every incoming frame to all connected devices?**
- A. Router**
 - B. Switch**
 - C. Bridge**
 - D. Hub**
- 9. What is the role of a digital certificate in TLS?**
- A. Verifies identity and enables encrypted communication using public-key cryptography**
 - B. Stores user credentials for authentication**
 - C. Provides IP addressing for TLS sessions**
 - D. Encrypts data using a symmetric key only**
- 10. What is the primary purpose of training users to recognize phishing attempts?**
- A. To reduce the risk of credential theft by increasing awareness.**
 - B. To replace technical controls with training.**
 - C. To make users immune to all attacks.**
 - D. To reduce network bandwidth usage.**

Answers

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1. A
2. C
3. B
4. B
5. C
6. C
7. B
8. D
9. A
10. A

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Explanations

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1. In a Smurf attack, ping requests are sent to the broadcast address to cause many devices to respond to the spoofed target.

A. In a Smurf attack, ping requests are sent to the broadcast address to cause many devices to respond to the spoofed target.

B. To directly ping the attacker.

C. To update routing tables.

D. To test connectivity.

Smurf attacks rely on abusing ICMP Echo Requests sent to a network's broadcast address, which makes many devices respond to a spoofed target. The spoofed source IP makes all those replies go to the victim, creating a large amount of amplified traffic that can overwhelm the target's bandwidth or resources. In modern networks, directed broadcasts are often blocked or filtered to prevent this, reducing the risk of Smurf amplification. The other ideas don't fit because pinging the attacker wouldn't cause the target to be flooded, updating routing tables is about network maintenance, and testing connectivity is simply diagnostic and does not aim to overwhelm a victim.

2. In Linux, what does the rwx notation represent?

A. User ownership only, no group or others

B. Directory size in bytes

C. File and directory permissions for user/group/others (read, write, execute)

D. Network permissions

In Linux, the rwx notation represents file and directory permissions for three classes: the owner, the group, and others. Each class can have three rights: read (r), write (w), and execute (x). The presence of a letter means that permission is granted, while a dash means it's not. For example, a listing like -rwxr-xr-- shows that the owner can read, write, and execute; the group can read and execute; and others can only read. On directories, execute means you can traverse into the directory, while read lets you list its contents, and write allows creating or deleting entries if permitted. This concept is distinct from directory size, network permissions, or ownership, which are separate attributes.

3. Session is defined as what in networking?

- A. A time-limited password exchange
- B. A virtual connection between two hosts by which network traffic is passed**
- C. A single message sent between processes
- D. A physical wire between devices

A session in networking is the ongoing, stateful interaction between two endpoints that allows data to be exchanged over a logical connection. It's a virtual link established for communication, managed with control information and state so multiple messages can flow in an organized way during the encounter. That's why the best description is a virtual connection between two hosts by which network traffic is passed—because it emphasizes the established, ongoing dialogue rather than a physical medium, a single message, or an authentication step. A physical wire is just a link, not an interaction with state; a single message isn't enough to constitute a session; and a time-limited password exchange describes authentication rather than the sustained data exchange that a session enables.

4. In disaster recovery planning, what do RPO and RTO specify?

- A. RPO is recovery time objective; RTO is recovery point objective.
- B. RPO is maximum acceptable data loss window; RTO is maximum acceptable downtime.**
- C. RPO is downtime; RTO is data loss.
- D. RPO and RTO have no relation to backup planning.

In disaster recovery planning, focus on two timings: Recovery Point Objective and Recovery Time Objective. RPO, or Recovery Point Objective, is the maximum amount of data loss that's tolerable after a disruption, measured in time. This tells you how often to back up or replicate data to limit loss—if the RPO is four hours, you'd aim to have data backups or replication so you don't lose more than four hours of data. RTO, or Recovery Time Objective, is the maximum downtime you can accept before services are restored, which drives how quickly you must recover and bring systems back online, including whether you use hot, warm, or cold recovery sites. Put together, RPO describes the acceptable data loss window, and RTO describes the acceptable downtime window. These metrics guide backup frequency, replication and failover strategies, and overall DR readiness.

5. Which option best describes the consequence of weak authentication in IoT devices?

- A. Unaffected security.**
- B. Stronger security.**
- C. Potential security risk due to unauthorized access.**
- D. Lower maintenance.**

Authentication acts as the gatekeeper for IoT devices. When it's weak, attackers can impersonate legitimate users or the devices themselves, gaining unauthorized access. This opens up a real security risk: data can be exposed, devices can be manipulated, or they can be hijacked for malicious uses like forming botnets. That's why the best description is a potential security risk due to unauthorized access. The other ideas aren't accurate: security wouldn't be unaffected or stronger with weak authentication, and lower maintenance isn't the direct consequence—the risk and harm come from unauthorized access, even if fixes or hardening later increase maintenance.

6. What type of protocol is Routing Information Protocol (RIP)?

- A. Link-state protocol**
- B. Path-vector protocol**
- C. Distance vector protocol**
- D. Hybrid protocol**

RIP is a distance-vector routing protocol. In this approach, each router shares its routing table with directly connected neighbors and relies on those neighbors' information to learn about the rest of the network, rather than building a complete map of the network topology. The metric used is hop count—the number of routers a packet must pass through to reach a destination. Destinations are considered unreachable if they're more than 15 hops away, which also helps keep the routing table small and predictable. Routers send periodic updates of their entire routing table to neighbors (in classic RIP, every 30 seconds). This makes the system simple to configure and easy to understand, but it can lead to slower convergence and potential routing loops if not managed with techniques like split horizon or route poisoning. It's not a link-state protocol, which builds a full topology map and uses shortest-path algorithms like Dijkstra, nor is it a path-vector protocol (used in interdomain routing with AS-path information), and it isn't a hybrid that blends features of both approaches.

7. What is MDM and why is it important for Army mobile devices?

- A. Mobile Data Management; organizes data on devices.**
- B. Mobile Device Management; enforces security policies, app controls, encryption, remote wipe, and inventory.**
- C. Media Distribution Management; handles firmware.**
- D. Machine Device Monitoring; tracks device performance.**

Mobile Device Management stands for a centralized system that configures, secures, and monitors the mobile devices used in Army operations. It enforces security policies such as strong passwords, device encryption, and automatic locks; controls which apps can be installed; pushes required settings; and can remotely wipe or lock a device if it's lost or compromised. It also provides an up-to-date inventory of devices, OS versions, and installed applications. For Army mobile devices, this is crucial because it protects sensitive information on endpoints, ensures devices adhere to standard security baselines, enables secure access to networks and resources, and allows rapid response to incidents through remote actions. Other options describe data management, firmware distribution, or performance monitoring, which don't address the full scope of security, policy enforcement, and device oversight that MDM provides.

8. Which networking device broadcasts every incoming frame to all connected devices?

- A. Router**
- B. Switch**
- C. Bridge**
- D. Hub**

A hub broadcasts every incoming frame to all connected devices because it acts as a simple physical-layer repeater. It doesn't read or use any addressing information; when a frame arrives on one port, the hub repeats that signal out to every other port. This means every device on the same collision domain sees the frame, regardless of the destination MAC address. That behavior makes hubs simple but inefficient, since traffic is flooded to all hosts and collisions are common in shared Ethernet. In contrast, a switch (and a bridge) examines addresses and forwards frames only to the appropriate port, building a MAC address table to keep traffic localized and reduce unnecessary broadcasts. Routers operate at a higher layer and route between networks rather than simply rebroadcasting frames within a single segment. This is why the hub is the device described by the scenario.

9. What is the role of a digital certificate in TLS?

- A. Verifies identity and enables encrypted communication using public-key cryptography**
- B. Stores user credentials for authentication**
- C. Provides IP addressing for TLS sessions**
- D. Encrypts data using a symmetric key only**

Digital certificates in TLS are used to verify who you're talking to and to kick off encrypted communication through public-key cryptography. The certificate binds the server's identity (like its domain) to a public key and is signed by a trusted certificate authority. The client validates this certificate (checking the chain, expiry, and that the domain matches) to confirm it's talking to the legitimate server. Once trusted, the public key helps establish a shared session key (via the handshake, such as with an ephemeral key exchange), and that session key is then used with symmetric encryption to protect all subsequent data. The certificate itself isn't storing user credentials, it doesn't provide IP addressing, and it isn't the symmetric encryption used to protect the data—its role is to authenticate and enable the secure key exchange that makes encryption possible.

10. What is the primary purpose of training users to recognize phishing attempts?

- A. To reduce the risk of credential theft by increasing awareness.**
- B. To replace technical controls with training.**
- C. To make users immune to all attacks.**
- D. To reduce network bandwidth usage.**

Empowering users to spot phishing is aimed at reducing credential theft by increasing awareness. When people can recognize suspicious emails, messages, or links and know how to respond—avoiding clicks, not entering passwords, and reporting suspected attempts—the attacker's path to stealing usernames and passwords is blocked at the source. This training complements technical defenses like email filters and MFA, rather than replacing them. It won't make users immune to all attacks, and it doesn't affect network bandwidth. So the primary purpose is to reduce the risk of credential theft by elevating awareness.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://armyictl.examzify.com>

We wish you the very best on your exam journey. You've got this!

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