

Red Hat Certified Architect (RHCA) Certification Practice Exam (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

- 1. Which directory serves as the home directory for the administrative superuser?**
 - A. /tmp**
 - B. /bin**
 - C. /root**
 - D. /admin**
- 2. What aspect of Red Hat architecture is primarily addressed by high availability clusters?**
 - A. Data encryption**
 - B. Continuity of services during outages**
 - C. Implementation of security policies**
 - D. Scalability of applications**
- 3. What is the role of system logs in system administration?**
 - A. To enhance system performance**
 - B. To provide troubleshooting information by recording system events and errors**
 - C. To manage user permissions**
 - D. To automate system updates**
- 4. Which command is used to enable a service to start automatically during system boot?**
 - A. systemctl start servicename.service**
 - B. systemctl enable servicename.service**
 - C. systemctl restart servicename.service**
 - D. systemctl disable servicename.service**
- 5. What describes one of multiple logical consoles that can each support an independent login session?**
 - A. Physical Console**
 - B. Terminal**
 - C. Virtual Console**
 - D. Shell**

- 6. What common feature do OpenShift security practices aim to improve?**
- A. Cost efficiency**
 - B. Environmental sustainability**
 - C. User authentication and authorization**
 - D. Data storage capacity**
- 7. When configuring an IP address in NetworkManager, which format is used to specify the subnet mask?**
- A. Slash notation**
 - B. Dot-decimal notation**
 - C. Hexadecimal notation**
 - D. Binary notation**
- 8. What is the preferred command to manage MBR and GPT partitions in RHEL 8?**
- A. parted**
 - B. fdisk**
 - C. gparted**
 - D. pvcreate**
- 9. Which SELinux mode requires a reboot to transition into?**
- A. Permissive Mode**
 - B. Enforcing Mode**
 - C. Disabled Mode**
 - D. Active Mode**
- 10. Which function does Red Hat OpenShift provide that bolsters application deployment security?**
- A. Auto-scaling of virtual machines**
 - B. Automated backup of application data**
 - C. Centralized management of application policies**
 - D. No security features**

Answers

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

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Explanations

1. Which directory serves as the home directory for the administrative superuser?

- A. /tmp
- B. /bin
- C. /root**
- D. /admin

The home directory for the administrative superuser, also known as the root user in Linux systems, is located at /root. This directory is distinct from regular user home directories and is typically only accessible by the root user. The root user has elevated privileges that allow it to perform system-level tasks and manage configurations across the system. Using /root as the home directory ensures that critical system files and configurations are separately managed, reinforcing security and organization within the filesystem structure. In contrast, options like /tmp and /bin serve specific purposes; for example, /tmp is used for temporary files and /bin contains essential binary executables. The /admin option does not correspond to a standard directory in Linux systems for root access, further solidifying that /root is the only viable answer for this question. This structure highlights the importance of maintaining a secure environment for system administration tasks.

2. What aspect of Red Hat architecture is primarily addressed by high availability clusters?

- A. Data encryption
- B. Continuity of services during outages**
- C. Implementation of security policies
- D. Scalability of applications

High availability clusters are specifically designed to ensure the continuity of services during outages. This is achieved through the configuration of multiple servers that work together to provide redundancy. In the event that one server fails, another can take over its tasks, thereby minimizing downtime and ensuring that critical services remain operational. The focus of high availability clusters is on maintaining service availability and fault tolerance, which is essential in environments where uptime is crucial. This setup provides a robust solution for preventing disruptions in service, whether due to hardware failure, software issues, or planned maintenance, enabling seamless transitions between cluster nodes. While there are aspects like data encryption, security policies, and scalability that are important in system architecture, they do not directly relate to the primary function of high availability clusters. These clusters are inherently about ensuring that applications and services remain available, which makes the continuity of services during outages the correct choice in this context.

3. What is the role of system logs in system administration?

- A. To enhance system performance
- B. To provide troubleshooting information by recording system events and errors**
- C. To manage user permissions
- D. To automate system updates

The role of system logs in system administration is primarily to provide troubleshooting information by recording system events and errors. System logs capture a wide variety of information about the operational state of the system, including any issues that arise. This record helps administrators diagnose problems, monitor system behavior, and understand how the system is being used over time. Logs can contain information about hardware failures, software crashes, security incidents, and general system activities. When troubleshooting a specific issue, an administrator can examine the relevant logs to see what events coincided with the failure, which is crucial for effective problem resolution. Additionally, logs can be used for security audits, compliance monitoring, and performance tuning, but their most significant value lies in the insights they provide during the troubleshooting process.

4. Which command is used to enable a service to start automatically during system boot?

- A. `systemctl start servicename.service`
- B. `systemctl enable servicename.service`**
- C. `systemctl restart servicename.service`
- D. `systemctl disable servicename.service`

The command to enable a service to start automatically during system boot is "`systemctl enable servicename.service`." This command creates the necessary symbolic links in the system's initialization directories, ensuring that the specified service is started when the system boots up. When you execute this command, it essentially informs the system's initialization process of the desired behavior regarding the service's state during startup. This is crucial for services that need to be running from the moment the system is operational, such as database services, web servers, or any other essential component of the system. In contrast, starting a service with "`systemctl start servicename.service`" only initiates the service for the current session; it does not affect its state during the next boot. Restarting a service using "`systemctl restart servicename.service`" temporarily stops and then starts the service again but does not alter the service's enabled or disabled status at boot. Finally, disabling a service with "`systemctl disable servicename.service`" prevents it from starting automatically during boot, which is the opposite of what is required for enabling a service.

5. What describes one of multiple logical consoles that can each support an independent login session?

- A. Physical Console**
- B. Terminal**
- C. Virtual Console**
- D. Shell**

The concept of a virtual console is foundational in Linux and Unix-like operating systems. A virtual console allows users to interact with the system independently of the graphical user interface. Each virtual console can support its own unique login session, allowing multiple users or multiple sessions of the same user to operate concurrently without interference. This capability enhances multitasking and can be particularly useful in server environments where administrators manage multiple processes simultaneously. When you switch between virtual consoles, you can run different commands, execute scripts, or run applications without any overlap. This is different from a physical console, which typically refers to a hardware interface directly attached to the computer, and a shell, which is the command line interface itself that users interact with after logging in. A terminal is more general and can refer to either a physical or virtual interface but does not specifically denote the capability of having independent sessions as virtual consoles do. Thus, a virtual console accurately encapsulates the definition of an independent logical console supporting separate login sessions.

6. What common feature do OpenShift security practices aim to improve?

- A. Cost efficiency**
- B. Environmental sustainability**
- C. User authentication and authorization**
- D. Data storage capacity**

OpenShift security practices primarily focus on enhancing user authentication and authorization. This is crucial for ensuring that only authorized users have access to specific applications and data within the OpenShift environment. By implementing robust authentication mechanisms, OpenShift can confirm user identities and secure interaction with the platform. Additionally, fine-tuned authorization controls determine what authenticated users can do, thereby protecting sensitive resources and maintaining compliance with security standards. Security practices in OpenShift, such as Role-Based Access Control (RBAC) and security context constraints, are integral in creating a secure environment where applications can thrive without being vulnerable to unauthorized access. Strengthening user authentication and authorization is essential for safeguarding applications from breaches and ensuring that sensitive information remains secure, fostering trust and compliance in cloud-native environments.

7. When configuring an IP address in NetworkManager, which format is used to specify the subnet mask?

- A. Slash notation**
- B. Dot-decimal notation**
- C. Hexadecimal notation**
- D. Binary notation**

When configuring an IP address in NetworkManager, the correct format to specify the subnet mask is indeed slash notation. This format is typically represented as a number following the IP address that indicates the number of bits used for the subnet mask. For example, an IP address like 192.168.1.10/24 signifies that the first 24 bits of the address are used for the network part, allowing for a network mask of 255.255.255.0. Slash notation is concise and widely used in modern networking contexts, particularly in environments involving CIDR (Classless Inter-Domain Routing). Its advantage lies in its simplicity and ease of use when defining subnets, making it the preferred method in various network configuration tools, including NetworkManager. Other formats such as dot-decimal notation, while useful for specifying traditional subnet masks, do not align with the simplicity and clarity offered by slash notation in more current configurations. Methods like hexadecimal and binary notation are largely impractical for subnetting in standard administrative tasks, as they complicate the understanding and representation of IP addressing schemes. Therefore, slash notation is the standard format for defining subnet masks in NetworkManager configurations.

8. What is the preferred command to manage MBR and GPT partitions in RHEL 8?

- A. parted**
- B. fdisk**
- C. gparted**
- D. pvcreate**

The preferred command to manage MBR (Master Boot Record) and GPT (GUID Partition Table) partitions in RHEL 8 is "parted." This command-line utility is versatile and allows for advanced partitioning tasks, including the ability to create, delete, and resize partitions. It supports both MBR and GPT partitioning schemes, making it a robust choice for managing disk layouts on modern systems. Parted also includes a user-friendly interface through its interactive mode, which can simplify the management of partitions for users who may not be as comfortable with command-line syntax. Additionally, it handles larger disks effectively, since the GPT scheme allows for more partitions than MBR and can accommodate larger storage devices. While other tools like "fdisk" and "gparted" are also available, they have limitations compared to parted. Fdisk is primarily focused on MBR management and does not work with GPT partitions. Gparted, while providing a graphical interface that can be appealing, is not a command-line tool and can require additional dependencies, making parted more suitable for a wide range of system administration tasks. "pvcreate" is specifically for initializing physical volumes for use with LVM (Logical Volume Management), which is a separate function from basic partitioning.

9. Which SELinux mode requires a reboot to transition into?

- A. Permissive Mode**
- B. Enforcing Mode**
- C. Disabled Mode**
- D. Active Mode**

Transitioning to Disabled Mode in SELinux does indeed necessitate a reboot. When SELinux is set to Disabled, it entirely ceases to operate; the security policies that SELinux implements are not enforced in any capacity. This mode is configured in the system's boot parameters, meaning that the change can only take effect on system startup, thus requiring a reboot. In contrast, both Permissive and Enforcing modes can be switched at runtime without restarting the system. Permissive mode allows SELinux to log policy violations but does not enforce the rules, while Enforcing mode actively enforces the rules and denies access when policies are violated. Therefore, altering settings related to these modes can be done on-the-fly, making a reboot unnecessary. Additionally, there is no standard SELinux mode called "Active Mode." Therefore, the requirement for a reboot is specific to entering Disabled Mode, as changes must be executed at boot time to reflect the system's operating state.

10. Which function does Red Hat OpenShift provide that bolsters application deployment security?

- A. Auto-scaling of virtual machines**
- B. Automated backup of application data**
- C. Centralized management of application policies**
- D. No security features**

Centralized management of application policies in Red Hat OpenShift plays a critical role in enhancing application deployment security. This feature allows administrators and DevOps teams to define, enforce, and manage security policies consistently across applications and environments. By having a centralized approach to security policies, organizations can ensure that security best practices are uniformly applied, minimizing the risk of misconfigurations that could lead to vulnerabilities. Centralized policy management also facilitates compliance with regulatory requirements and industry standards, as policies can be easily updated and audited. This capability allows for fine-grained access controls, network policies, and other security measures to be defined and enforced, enhancing the overall security posture of applications deployed within the OpenShift platform. By contrast, while auto-scaling of virtual machines and automated backup of application data are important features for performance and data integrity, they do not specifically focus on security. The option suggesting a lack of security features contradicts the fundamental design of OpenShift, which incorporates various security mechanisms to protect applications and data.

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://redhatcertifiedarchitect.examzify.com>

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