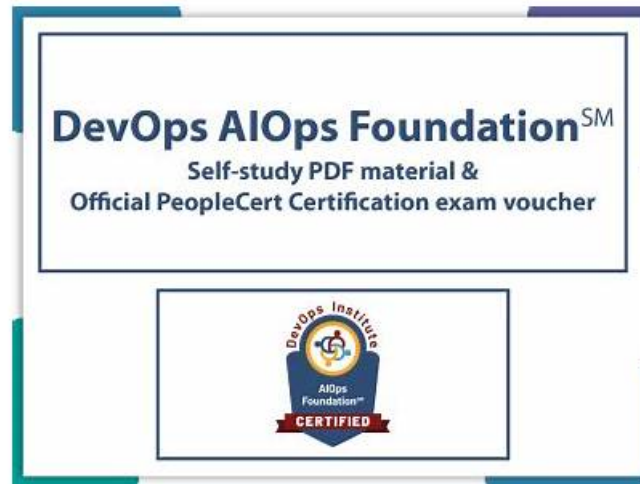


# AIOps-Foundation Exam Questions - DevOps Institute

## AIOps Foundation V1.0 Study Question & AIOps-Foundation Test Guide



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### Peoplecert AIops-Foundation Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>AIops Fundamentals: This section of the exam measures the skills of IT operations professionals and covers the evolution of AIops, differentiating it from IT Operations Analytics. It also explores the current stages of an AIops system and its significance in modern IT environments. A key skill assessed is understanding the foundational concepts that drive AIops adoption.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Implementing AIops: This section of the exam measures the skills of project managers and covers challenges, trends, and ethical considerations organizations may face when deploying an AIops initiative. It emphasizes strategic planning for successful implementation while addressing potential risks.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Core Technologies: Big Data: This section of the exam measures the skills of data engineers and covers an introduction to Big Data, including its definition, characteristics, and the Five V's (Volume, Velocity, Variety, Veracity, and Value). It also addresses various data sources and types relevant to AIops. A key skill assessed is identifying different types of data utilized in AIops environments.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>AIops Use Cases and Organisational Mindset: This section of the exam measures the skills of the target audience and covers the challenges and opportunities associated with applying AIops within organizations. It focuses on fostering an organizational mindset that embraces innovation through AIops.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>Evaluating AIops Impact: This section of the exam measures the skills of professionals and covers methods for measuring the effectiveness of AIops deployments. It discusses how to assess potential benefits such as improved efficiency and reduced operational costs.</li></ul>

Topic 6	<ul style="list-style-type: none"> <li>• <b>AIOps and Operations Metrics:</b> This section of the exam measures the skills of performance analysts and covers industry-standard metrics used to quantify the outcomes of implementing AIOps solutions.</li> </ul>
Topic 7	<ul style="list-style-type: none"> <li>• <b>Core Technologies: Machine Learning (ML):</b> This section of the exam measures the skills of machine learning practitioners and covers the role of AI and machine learning in AIOps. It includes discussions on supervised versus unsupervised learning, differences between ML and analytics, and training models for practical applications. A vital skill evaluated is understanding how to apply machine learning techniques to enhance operational efficiency.</li> </ul>

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### Peoplecert DevOps Institute AIOps Foundation V1.0 Sample Questions (Q14-Q19):

#### NEW QUESTION # 14

Surfacing relevant notifications and alerts from among large volumes of alerts is satisfied by this use case:

- A. Event correlation
- **B. Alert noise reduction**
- C. Anomaly detection
- D. Root cause analysis

**Answer: B**

Explanation:

Alert noise reduction is the use case focused on identifying and prioritizing relevant alerts from a large volume of notifications, which helps prevent alert fatigue for IT teams.

By reducing noise, AIOps enables teams to focus on significant issues that require immediate attention, improving operational efficiency.

The DevOps Institute's AIOps Foundation course highlights this capability as a core advantage of AIOps systems.

#### NEW QUESTION # 15

Discovering unexpected changes in system behavior or performance is satisfied by this use case:

- A. Event correlation
- B. Root cause analysis
- C. Alert noise reduction
- **D. Anomaly detection**

**Answer: D**

Explanation:

Anomaly detection refers to identifying unexpected changes or deviations in system behavior or performance.

This use case is essential for proactively detecting issues that may not have predefined patterns or signatures, enabling faster incident resolution.

The DevOps Institute's AIOps Foundation materials describe anomaly detection as a key feature of AIOps platforms to enhance monitoring capabilities.

### NEW QUESTION # 16

What is Step 1 in the AIOps Capability Scale?

- A. Add automation for self-healing
- **B. Reduce MTTR through noise reduction**
- C. Automate toils using AI Insights
- D. Use chaos engineering for antifragility

**Answer: B**

Explanation:

In the AIOps Capability Scale, Step 1 focuses on reducing Mean Time to Repair (MTTR) by minimizing alert noise. This initial phase involves implementing AIOps solutions to filter and correlate alerts, thereby decreasing the volume of irrelevant notifications. By reducing noise, IT teams can concentrate on critical issues, leading to faster incident resolution and improved system reliability. This foundational step sets the stage for more advanced AIOps capabilities.

### NEW QUESTION # 17

Which is the MOST pressing reason IT professionals look to become effective in operating systems?

- **A. Increasingly demanding user expectations**
- B. Constantly changing IT Landscape
- C. Risk to reductions in force
- D. Mergers and Acquisitions

**Answer: A**

Explanation:

IT professionals strive to become more effective in operating systems primarily due to increasingly demanding user expectations. Users today expect seamless, high-performing, and reliable digital experiences.

To meet these expectations, IT operations must adopt advanced tools and methodologies, such as AIOps, to enhance system performance, ensure uptime, and quickly resolve issues. By implementing AIOps, organizations can proactively manage IT operations, anticipate user needs, and deliver superior service quality, thereby meeting the high expectations of modern users. In today's rapidly evolving digital landscape, IT professionals face numerous challenges that necessitate proficiency in operating systems. Among these challenges, the most pressing reason is the increasingly demanding user expectations.

Understanding User Expectations:

Users today expect seamless, efficient, and uninterrupted digital experiences. This expectation spans across various platforms and services, including web applications, mobile apps, and enterprise software. Any downtime, lag, or inefficiency can lead to user dissatisfaction, potentially resulting in loss of business and reputation.

Impact on IT Operations:

To meet these high expectations, IT professionals must:

- \* Ensure System Reliability: Maintain consistent uptime and quickly address any system failures.
- \* Optimize Performance: Continuously monitor and enhance system performance to provide fast and responsive user experiences.
- \* Implement Robust Security Measures: Protect user data and ensure privacy to build and maintain trust.

Role of AIOps in Addressing User Expectations:

Artificial Intelligence for IT Operations (AIOps) plays a pivotal role in enabling IT professionals to meet and exceed user expectations. By leveraging AIOps, organizations can:

- \* Automate Monitoring and Incident Response: Utilize machine learning algorithms to detect anomalies and address issues proactively, minimizing downtime and enhancing user satisfaction.
- \* Predict and Prevent Potential Issues: Analyze historical data to forecast potential system failures and implement preventive measures.
- \* Optimize Resource Allocation: Ensure that system resources are efficiently utilized to handle varying user loads without compromising performance.

Supporting References from DevOps Institute AIOps Foundation:

The DevOps Institute's AIOps Foundation course emphasizes the importance of meeting user expectations in modern IT operations. It highlights how AIOps enables organizations to manage complex IT infrastructures by leveraging AI and machine learning for better business outcomes. This includes improving operations performance, providing real-time insights, and enabling proactive monitoring and predictive analytics.

Furthermore, the course discusses how digital transformation and the evolution of machine learning have brought about the rise of AIOps as an indispensable tool in today's IT operational landscape. By understanding and implementing AIOps, IT professionals can effectively address the challenges posed by increasingly demanding user expectations.

In conclusion, while factors like a constantly changing IT landscape, risk of reductions in force, and mergers and acquisitions are significant, the most pressing reason for IT professionals to become effective in operating systems is to meet the increasingly demanding user expectations. Proficiency in operating systems, enhanced by AIOps, equips IT professionals to deliver the reliability, performance, and security that users demand.

#### NEW QUESTION # 18

Reactive Operations rely on:

- A. Big Data
- **B. Lagging indicators**
- C. Leading indicators
- D. Prediction and inference

**Answer: B**

Explanation:

Reactive operations focus on responding to incidents after they have occurred, relying on lagging indicators- metrics that reflect past events or performance. These indicators, such as system downtime reports or post- incident analyses, provide insights into issues that have already impacted the system. While useful for understanding and addressing past problems, reliance solely on lagging indicators can lead to delayed responses and prolonged downtime. AIOps aims to shift operations from reactive to proactive by utilizing leading indicators and predictive analytics to anticipate and prevent issues before they occur.

#### NEW QUESTION # 19

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