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練習問題

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1年間無料アップデート

Exam : AIOps Foundation

Title : PeopleCert DevOps
Institute AIOps Foundation
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1. The effectiveness of an AIOps implementation is dependent on what performances?

- A. Machine Learning Model Performance
- B. Number of data sources
- C. System complexity
- D. In-house AI skills

Answer: A

Explanation:

The effectiveness of an AIOps implementation is significantly influenced by the performance of its machine learning (ML) models. These models are central to analyzing vast amounts of data, identifying patterns, and making predictions that enhance IT operations.

Key factors include:

Accuracy: The precision of the ML model in identifying and predicting issues directly impacts the reliability of the AIOps system.

Training Data Quality: High-quality, relevant data is essential for training effective ML models.

Model Adaptability: The ability of the model to adapt to new data and evolving system behaviors ensures sustained effectiveness.

Therefore, optimizing machine learning model performance is crucial for a successful AIOps deployment.

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

- A. Increasingly demanding user expectations
- B. Risk to reductions in force
- C. Constantly changing IT Landscape
- 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.

3.What is Step 1 in the AIOps Capability Scale?

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

Answer: D

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.

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

- A. Event correlation
- B. Anomaly detection

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- C. Root cause analysis
 - D. Alert noise reduction

Answer: D

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.

5. Which of the 5Vs is concerned with data quality, missing data or false positive alerts?

- A. Volume
- B. Velocity
- C. Value
- D. Veracity

Answer: D

Explanation:

Veracity refers to the quality and trustworthiness of data, addressing issues such as data accuracy, consistency, and the presence of noise or false positives. In the context of AIOps, ensuring high data veracity is essential for effective machine learning and analytics, as poor-quality data can lead to incorrect insights and suboptimal decision-making.

The AIOps Foundation course highlights the significance of data veracity in building reliable AI-driven IT operations.