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IBM C1000-189 Exam Syllabus Topics:

| Topic | Details |
|---------|---|
| Topic 1 | <ul style="list-style-type: none">• Troubleshooting: This section of the exam measures the skills of System Support Engineers and focuses on resolving technical and operational issues in Instana. It includes configuring log levels, collecting logs for debugging, and identifying connectivity issues between agents and the backend. Candidates will troubleshoot installation failures, diagnose communication problems, and apply corrective measures to ensure consistent Instana performance and stability across environments. |
| Topic 2 | <ul style="list-style-type: none">• Configuration: This section of the exam measures the skills of DevOps Administrators and evaluates their ability to configure and optimize Instana operational settings. It involves setting up business process monitoring, configuring both cloud and serverless agents, and defining agent proxy parameters. Candidates will learn to implement various technologies and sensors, manage OpenTelemetry integrations, set up smart alerts, create service naming rules, and define custom SLIs and payloads for alert channels. Managing licenses and ensuring proper configuration of alerts and notifications are also key components of this domain. |

| | |
|---------|---|
| Topic 3 | <ul style="list-style-type: none"> Security and Compliance: This section of the exam measures the skills of IT Security Analysts and focuses on the data protection and compliance aspects of Instana deployment. Candidates must describe and implement data retention policies, plan for regulatory compliance, secure APIs, manage user access, and interpret audit logs. The goal is to ensure secure system configurations that align with organizational and regulatory standards. |
| Topic 4 | <ul style="list-style-type: none"> Operations: This section of the exam measures the skills of Application Monitoring Specialists and covers daily operational tasks for managing Instana environments. It includes configuring website and application monitoring, handling synthetic monitoring, and creating incidents, issues, and alerts. Candidates will analyze infrastructure performance, set maintenance windows, and design custom dashboards. They are also expected to interpret golden signals, evaluate alerts, use analytics, and perform backup or restore operations to maintain optimal system performance. |
| Topic 5 | <ul style="list-style-type: none"> Integration: This section of the exam measures the skills of Integration Engineers and assesses their proficiency in connecting Instana with external monitoring and automation tools. Candidates must demonstrate knowledge of integrating agent-based systems such as Omegamon, ITM, and ITCAM, as well as external platforms like Prometheus and Grafana. The section also includes configuring alert channels, automation actions, and utilizing the Instana REST API to support customized workflows and data visibility. |
| Topic 6 | <ul style="list-style-type: none"> Installation: This section of the exam measures the skills of System Implementation Specialists and focuses on installing and deploying Instana across different environments. It includes installing the Instana backend, deploying and configuring agents, and migrating existing Instana setups. Candidates will also demonstrate their ability to implement Synthetic Monitoring and manage Points of Presence (PoPs) effectively for end-to-end performance validation. |

IBM Instana Observability v1.0.277 Administrator - Professional Sample Questions (Q41-Q46):

NEW QUESTION # 41

What is Instana's custom built software that is designed to monitor a specified technology?

- A. Service
- B. Tracer
- C. Sensor**
- D. Profiling

Answer: C

Explanation:

Instana uses Sensors as specialized software components embedded within its agents to monitor and extract telemetry from various supported technologies. The verified documentation states: "Sensors are built-in modules that detect, identify, and monitor specific technologies such as databases, servers, run-times, and messaging systems." These components ensure that the agent collects targeted metrics, events, and traces optimized for individual stacks like MySQL, Kafka, or Java. When deployed, the Instana agent automatically discovers technologies running in the environment and loads corresponding Sensors dynamically, requiring minimal user configuration. Tracers handle transaction propagation, Profiling covers code-level performance, and Service is a higher abstraction in application topology-not individual monitoring logic. The Sensor concept remains core to Instana's automatic discovery and observability architecture as validated in IBM's architectural reference sections.

NEW QUESTION # 42

Which statement best describes Beelnstana?

- A. A Kubernetes operator that requires high-performing data stores and a distributed data store cluster.**
- B. It is a metric database used to perform complex metric queries
- C. An operator that can be used only on self-hosted deployments that have data stores installed
- D. An operator that can be used to install Instana on Kubernetes

Answer: A

Explanation:

BeeInstana is identified in Instana's documentation as the core Kubernetes operator driving distributed installation and management of Instana components. The documentation defines: "BeeInstana is a Kubernetes operator that requires robust, high-performing distributed data stores and manages Instana deployment complexity, resource allocation, and scaling within large clusters." By leveraging Kubernetes-native constructs, BeeInstana orchestrates Instana backend, UI, sensors, and streaming components-ensuring reliable, scalable deployments for enterprise settings. The operator orchestrates failover, recovery, and persistent storage management, supporting self-hosted and hybrid installations. While it is associated with metric data handling, its main role is orchestration and operational management based on distributed database infrastructures. Simple operator installation (A, D) does not capture its full role, and describing BeeInstana as only a metric database (B) misrepresents its architectural function in Instana's platform lifecycle.

NEW QUESTION # 43

Which HTTP header is automatically collected?

- A. Instana-probe
- B. x-client-id
- C. Instana-id
- D. **X-Instana-Service**

Answer: D

Explanation:

Instana traces and analyzes every request. Services and endpoints are automatically discovered, and relationships between services, endpoints, and your infrastructure are autocorrelated and stored in our Dynamic Graph.

Based on the data that is collected from tracers and sensors, KPIs are calculated for calls, latency, and erroneous calls. KPIs help you discover the health of every individual service and then the health of your entire infrastructure.

Services are a part of application monitoring and provide a logical view of your system. Services are derived from infrastructure entities such as hosts, containers, and processes. Incoming calls are correlated to infrastructure entities and enriched with infrastructure data; for example, the Kubernetes pod label or SpringBoot application name. After this infrastructure-linking processing step, a service mapping step maps the enriched calls to generate a service name per call based on a set of rules. Instana comes with an extensive set of predefined rules to generate the best possible service name for you automatically. To fine-tune the service mapping, you can create your own custom rules, see customize service mapping.

NEW QUESTION # 44

What happens when multiple agent configuration files are created and put alongside the main configuration.yaml?

- A. Only the first file is processed while other files are silently ignored.
- **B. The configuration file is read in alphabetical order.**
- C. An error is thrown since only one configuration file is allowed at any time.
- D. All configuration files are merged in alphabetical order.

Answer: B

Explanation:

IBM Instana Observability's agent supports modularized configuration through multiple YAML configuration fragments within its configuration directory. As described in the documentation: "When multiple configuration files exist alongside the main configuration.yaml, the agent reads each in alphabetical order and applies configurations sequentially." This mechanism supports composable and layered configuration management, allowing base settings in configuration.yaml to be overridden or extended by secondary fragments. The key design principle is deterministic merge order-guaranteeing predictable configuration hierarchies across deployments. This method improves maintainability in large environments by facilitating separation of sensitive and technology-specific settings while maintaining a consistent merge process. IBM warns not to name multiple files with overlapping keys unless intentional overrides are desired. The merge is additive and case-sensitive, processed lexicographically, providing administrators both flexibility and traceability for troubleshooting and auditing. There is no error generated when multiple files are present; rather, Instana agent gracefully integrates them during initialization, a behavior that promotes advanced configuration modularity for complex deployments.

NEW QUESTION # 45

Which two thresholds can be chosen in Advanced Mode when setting up a Smart Alert?

- A. Static
- B. Progressive
- C. Single
- D. Adaptive
- E. Neutral

Answer: A,D

Explanation:

Instana Smart Alerts provide intelligent, context-aware alerting capabilities. In Advanced Mode, administrators can choose between two distinct threshold types: Static and Adaptive. The IBM Instana documentation details: "Advanced Mode supports both static and adaptive thresholds, letting users define explicit limit values or rely on adaptive baselines derived from historical data." Static thresholds are fixed, user-defined values best suited for predictable workloads or regulatory uptime scenarios. Adaptive thresholds use machine learning on time-series historical behavior to automatically adjust boundaries when traffic patterns or operating baselines change. This significantly reduces false positives and ensures that alerts reflect true anomalies rather than normal variance. Both threshold types can trigger multi-level alerts and integrate with escalation policies. Static measures remain critical for SLIs requiring consistent control, while adaptive techniques optimize monitoring of microservices under fluctuating loads. IBM emphasizes combining these in practice to balance detected sensitivity across mixed systems, leveraging AI-driven dynamic configurations in adaptive mode as a key differentiator in its observability platform.

NEW QUESTION # 46

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