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IBM C1000-189 Exam Syllabus Topics:

Topic	Details
Topic 1	• Planning: This section of the exam measures the skills of Cloud Monitoring Engineers and covers the foundational planning tasks required for successful Instana deployment. Candidates must understand the installation prerequisites, the architectural design of Instana for on-premises environments, and the platform core capabilities and use cases. It also assesses knowledge of different agent modes, supported sensors and tracers, and the distinctions between cloud service agents and serverless agents essential for scalable implementation.
Topic 2	• 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 3	• 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 4	• 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.
Topic 5	• 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 6	• 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.

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IBM Instana Observability v1.0.277 Administrator - Professional Sample Questions (Q54-Q59):

NEW QUESTION # 54
For which event type does Instana create an alert because end users are impacted?

- A. Issues
- B. Changes
- C. Incident
- D. Monitoring issues

Answer: C

Explanation:
Based on IBM Instana documentation review, Incidents are the event type that triggers alerts when end users are impacted. The official IBM documentation states: "An incident helps you to understand situations impacting your edge services and critical infrastructure... Incidents are created as soon as Instana detects either a key performance indication (KPI) is breached on an edge service, or a critical infrastructure issue." However, the documentation also clarifies: "An issue is an event that is triggered if

something out of the ordinary happens... An issue by itself does not trigger an alert, Instana simply notes that it happened. Should the service to where this system is connected behave badly, this issue is part of the incident." Critical issues can trigger alerts and may impact end users, but Incidents are specifically designed to represent situations where end-user-facing services (edge services) are impacted. The answer is B. Incident as the primary event type for end-user impact alerts.

NEW QUESTION # 55
Which two filters can be used in scheduling maintenance windows to mute affected entities?

- A. Dynamic Focus
- B. Scope based
- C. Custom Entity
- D. Application Perspective
- E. Smart Alerts

Answer: B,D

Explanation:
Scheduling maintenance windows in IBM Instana Observability allows teams to define planned downtimes or service windows without triggering false alerts. The official documentation specifies two filter types usable during maintenance scheduling: Scope Based and Application Perspective filters. The text explains: "Maintenance windows can be specified using Scope definitions or Application Perspectives, limiting alert muting to entities directly involved." Scope filters allow inclusion or exclusion based on infrastructure boundaries like hosts, clusters, or datacenters. Application Perspective filters focus on topological groupings of services representing business or application domains. By combining these filters, teams can ensure precision-muting only relevant sensors, metrics, or dependencies during upgrades or patching periods-while preserving alert integrity elsewhere. This capability avoids alert fatigue and maintains service accountability. Dynamic focus and Smart Alerts are response layers on active alerts rather than maintenance control objects, while Custom Entity filtering is not defined in Instana's scheduled maintenance configuration model.

NEW QUESTION # 56
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 # 57
Which two thresholds can be chosen in Advanced Mode when setting up a Smart Alert?

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

Answer: A,E

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 # 58
What does the stanctl cluster backup do?

- A. Create an archive file in the current directory
- B. Backup data of a remote Instana host
- C. Prepare the current directory for the backup procedure
- D. Create a snapshot of the disks

Answer: A

Explanation:
According to IBM Instana Observability (v1.0.307 and earlier), stanctl cluster backup is a built-in utility and command-line tool to back up system state and operational data from an Instana cluster. The verified procedure reads: "stanctl cluster backup saves configuration, operational state, and selected monitoring data into an archive file located in the current working directory." This archive is designed for disaster recovery and migration, containing all crucial files needed for restoring Instana to a consistent state. Disk snapshots (A) are separate and handled by storage appliances. Option B describes pre-backup preparation rather than the actual result. Remote backup (C) operations require remote execution configuration and are not part of the default cluster backup. Thus, D is correct as per documentation, which emphasizes bringing together all cluster backup data in a portable .tar or .zip archive for safe storage or transfer.

NEW QUESTION # 59
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