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IBM C1000-189 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.

Topic 3	<ul style="list-style-type: none"> • 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 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.

>> Key C1000-189 Concepts <<

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IBM Instana Observability v1.0.277 Administrator - Professional Sample Questions (Q18-Q23):

NEW QUESTION # 18

What is mandatory to use Instana REST APIs?

- A. Cookie
- B. Python
- C. CURL
- **D. Token**

Answer: D

Explanation:

Access to Instana's REST API is secured using authorization tokens—an industry-standard best practice for API authentication and traceability. IBM documentation says: "A personal or team API token is required to authenticate REST API calls." Tokens serve as credentials embedded in HTTP headers on each request, providing both identity and access control for the API consumer. Tokens are mandatory; without a valid token, any API requests are denied with a 401 Unauthorized error, regardless of whether a tool (such as CURL) is used. Tokens can be scoped for individual users (personal tokens) or teams (team tokens), enabling granular tracking and revocation as part of enterprise security policies. API tokens are generated from the Instana UI under the profile or team section. Cookies and raw client libraries (e.g., Python) are not authentication methods for Instana APIs.

NEW QUESTION # 19

Which two methods can Instana administrators use to create an API token?

- **A. Team API token**
- B. JSON Web tokens
- **C. Personal API tokens**
- D. Sensor-specific API token
- E. Unit-specific API tokens

Answer: A,C

Explanation:

IBM Instana supports two primary methods for creating API tokens necessary for secure automation and integration: Team API tokens and Personal API tokens. The official documentation states: "API tokens for REST API access can be generated either on a per-user (personal) basis, or at the team level for shared automation use." Personal tokens are created from the user profile menu and scoped to an individual's permissions, supporting traceability and revocation. Team tokens are created under team or group settings and represent organizational integrations or CI/CD pipeline automation. JSON Web Tokens (A) are an industry token standard but not a creation flow in Instana. Unit- or Sensor-specific tokens are not supported (C, D); all automation integrations must use Personal or Team tokens, which are easily managed and rotated via the web UI for improved security hygiene.

NEW QUESTION # 20

Which two steps are performed in preparation for migrating from a self-hosted single-node deployment to a multi-node deployment of Instana?

- A. Delete the disks from old host and move them to new host.
- B. Start the self-hosted Standard Edition on the current host.
- C. On all the three nodes, configure Docker.
- **D. On the two new hosts, make sure to check the Kernel parameters.**
- **E. On all the three hosts, configure private IP addresses.**

Answer: D,E

Explanation:

IBM's migration process for Instana specifies steps requisite for a successful transition from single-node to multi-node deployment. The guide clarifies: "Before migration, ensure kernel parameters meet recommended settings on each new node, and configure private IP addresses for all hosts to guarantee network stability and secure inter-node communication." Kernel parameter adjustment (C) involves tuning system limits and TCP behavior for high-availability performance. Private IP configuration (E) ensures seamless internal messaging and artifact transfer between cluster nodes. Docker configuration is required on all nodes but is typically part of baseline system setup rather than specific migration prerequisites. Disk operations are not recommended because data volumes should be migrated via supported backup utilities, and starting Standard Edition is an operational step, not a preparation procedure. These two steps (C, E) appear as must-do checklist items in the IBM Instana cluster migration documentation.

NEW QUESTION # 21

When are issues or incidents triggered in Instana while using .Net sensor?

- A. During regular maintenance
- **B. Based on failing health signatures or custom metric thresholds**
- C. When a user logs in
- D. When a sensor goes offline

Answer: B

Explanation:

Instana triggers Issues and Incidents based on dynamic health signatures and custom metric thresholds established for .NET applications. The official documentation clarifies: "Issues are generated automatically when health signatures fail or when custom metric thresholds are breached for .NET sensors, indicating performance or reliability degradation." This includes transaction latency, error rates, resource exhaustion, or process failure detection. Health signatures are built-in, algorithmic checks using expected baselines and historical data. Custom thresholds may be established by users for business-specific metrics (e.g., request time or throughput), further enriching early warning detection. Offline sensors or regular maintenance only lead to downtime or muted alerts, not issues/incidents. User logins reflect authentication flow monitoring and do not prompt system-wide issues in Instana's event model unless login failure ties to health impacts.

NEW QUESTION # 22

What is the default log level set to collect Log4j syslog for Instana agent configuration?

- **A. Info**
- B. Debug

- Answer: A**

As outlined in the Instana agent deployment documentation, the default log level for gathering Log4j syslog information is Info. The documentation reads: "The default log level for syslog collection in Instana agents with Log4j integration is Info, enabling monitoring of operational and sensor activity without excessive diagnostic output." Info level is chosen as a best-practice default to log key events like agent startup, sensor activations, and health check results. Debug, Warning, and Error thresholds are for troubleshooting or failure analyses and may be set manually for deep inspection but are not preselected at install. Optimal Info-level logging ensures administrators receive actionable messages without burdening disk or log forwarding pipelines. Configuration files can be adjusted for verbose output; however, initial deployments and automated frameworks always rely on Info as the default value.

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