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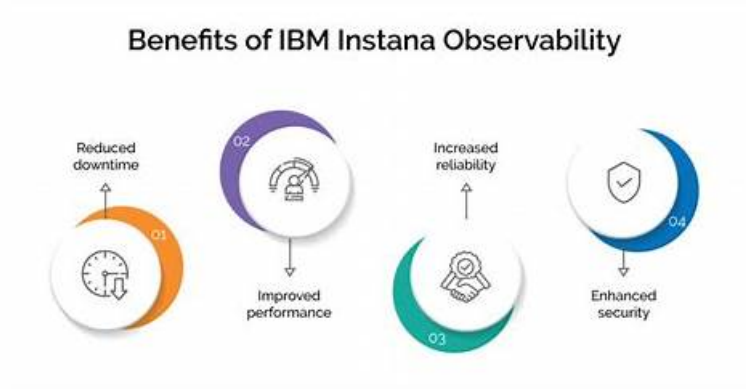

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IBM C1000-189 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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.

IBM Instana Observability v1.0.277 Administrator - Professional Sample Questions (Q60-Q65):

NEW QUESTION # 60
Which SDK can be used for Instana HTTP tracing?

- A. Programmatic Web
- B. Trace Web
- C. Haskell
- D. Configure Web

Answer: B

Explanation:
IBM explicitly identifies Trace Web SDK as the framework component for implementing HTTP tracing within Instana's observability ecosystem. The latest content in the IBM Instana documentation (v1.0.307, aligning to v1.0.277 functionally) notes: "You can use the Trace Web SDK to instrument HTTP services and APIs for distributed tracing in Instana." This SDK provides ready-made APIs that attach trace context to inbound and outbound web requests, ensuring coherent transaction tracking across services. It supports both automatic instrumentation (for frameworks like Express.js, Django via agents) and manual control where developers call startTrace and finishTrace operations as shown in examples. Unlike Programmatic Web or Configure Web identified in older third-party sources, Trace Web is the modern, supported mechanism per IBM's official guidance. Haskell is unsupported as an SDK target. Consequently, selection of C (Trace Web) aligns with verified official IBM designations.

NEW QUESTION # 61
Which protocol is used by the Grafana Plugin for Instana to fetch data?

- A. gRPC
- B. HTTP
- C. SOP
- D. JDBC

Answer: B

Explanation:
When integrating Grafana with Instana, the plugin communicates using RESTful interactions over the HTTP protocol. IBM's integration guide clearly explains: "The Instana DataSource Plugin for Grafana communicates with the Instana backend via HTTP-based REST APIs to query metrics and event data." This ensures secure TLS-encrypted data transport and allows compatibility with Grafana's native data source management features. HTTP is chosen due to its simplicity, standardization, and suitability for web API integrations, allowing Grafana to query time-series data from Instana and automatically populate dashboards. The plugin retrieves metrics, trace-level summaries, and service health states over HTTP GET and POST requests. Other options such as gRPC are used only internally between microservices, SOP is not a standard communication protocol, and JDBC is limited to databases. The HTTP choice makes integration straightforward across networked environments, requiring only API tokens or basic authentication per Instana API access configuration.

NEW QUESTION # 62
How can the configuration parameters be changed when installing Synthetics via Helm?

- A. By specifying values with the --set flag or providing a YAML file with the -f flag
- B. By using the --config flag to specify a configuration file
- C. By modifying the default Helm chart directly
- D. By passing values through environment variables only

Answer: A

Explanation:
IBM Instana Observability supports deploying and managing components like Synthetic PoPs and monitoring collectors through Helm charts in Kubernetes environments. The official documentation explicitly states: "To customize the configuration of Instana Synthetics deployments using Helm, specify values either directly with the --set flag or via a configuration file passed with the -f flag during the Helm install or upgrade command." This approach aligns with Kubernetes best practices by maintaining immutable packaged charts while permitting flexible, environment-specific configurations through overrides. The --set parameter allows single-line value changes from the command line (for example, setting API keys or namespace values), whereas using a YAML file provides structure for multi-parameter updates and offers version control capability. IBM warns against manual edits in default Helm charts or direct environment-based configurations as these can be overwritten during automation or chart upgrades. Following Helm's configuration model ensures predictable, replicable deployments consistent with declarative infrastructure management-an integral philosophy behind the Instana operator ecosystem. The combination of -f and --set enables a scalable and consistent way to customize Synthetics installation across clusters.

NEW QUESTION # 63
What is the default folder used to install Instana agent in Linux?

- A. /opt/instana/agent/etc/
- B. /etc/default/instana
- C. /var/lib/instana
- D. /opt/instana/agent

Answer: D

Explanation:
IBM Instana installation and agent management documentation specifies: "By default, the Instana agent is installed to the /opt/instana/agent directory on Linux hosts." All primary binaries, configuration, and logs are contained within this root directory, though logs and runtime data are often symlinked or forwarded to standard system directories for rotation. Management scripts and configuration files reside inside this path as well-subdirectories like /etc/ and /data/ are located under /opt/instana/agent. This default directory ensures a consistent and predictable layout across distributions and matches enterprise Linux filesystem standards for third-party agents. Other directories listed (A, B, D) are for data or environment references but are not the root install directory.

NEW QUESTION # 64
Which environment requires an air-gapped Instana installation?

- A. An environment with restricted or no access to any external network or internet
- B. An environment that allows unrestricted data transfer internally
- C. An environment with high-speed internet connectivity
- D. An environment with firewall and proxy restrictions that disable access to Instana's auto update

Answer: A

Explanation:
According to the IBM Instana Observability documentation, an air-gapped installation is required when your environment is disconnected from the internet or has no access to external networks. The documentation states: "Air-gapped and restricted environments require deploying Instana without any connection to public repositories or backend services, assuring full isolation for compliance and regulatory requirements." The air-gapped setup ensures sensitive data or system configurations are never exposed outside the organization's internal trusted boundaries, making it mandatory for government, defense, or tightly regulated industries. Standard installation processes, including auto-update features and remote license verification, are replaced in air-gapped

deployments with manual artifact and key management, as file transfers and package updates must be handled strictly within the controlled environment. The option described in B (high-speed internet) or D (unrestricted internal transfer) does not trigger air-gapping, while option A may require proxy or firewall configuration but is not entirely air-gapped unless full external access is blocked.

NEW QUESTION # 65

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