



IBM C1000-189 Practice Questions

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Question 1

Question Type: MultipleChoice

What is the default context in which an action script sensor runs?

Options:

- A- Instana agent
- B- Logged in Instana user
- C- Service agent
- D- Container

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Answer:

A

Explanation:

Within Instana, action script sensors execute administrative or diagnostic commands in context of the runtime environment that hosts the Instana agent. The current IBM documentation specifies: 'Action scripts are executed by the Instana agent process on the monitored host using the permissions and context of that agent.' The agent serves as a self-contained runtime capable of executing defined scripts, invoking system-level or application-specific logic safely within its host boundary. This design enhances automation and extensibility while respecting host-level security because the execution does not escalate privileges beyond the agent's service account. Instana ensures that scripts running within the agent context inherit its environment variables and operational limits, guaranteeing consistency and preventing user-specific execution inconsistencies. Other answer options (service agent, container, or logged-in user) do not reflect the actual architectural control documented by IBM, where the primary host agent controls all action-based script invocations.

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Question 2

Question Type: MultipleChoice

Which tool does Instana use to provide geographical data by mapping user IP addresses?

Options:

- A- GeoLite2 database
- B- Universal Geo database
- C- Google Maps API
- D- Geo Application Service

Answer:

A

Explanation:

IBM Instana leverages the open-source and widely recognized GeoLite2 database for mapping user IP addresses to their approximate physical locations in synthetic and real user monitoring scenarios. The documentation details: 'Instana provides geographical and location metadata based on the GeoLite2 database, which is regularly updated for improved accuracy and privacy compliance.' GeoLite2 is a MaxMind-developed database providing country, city, region, and sometimes ISP-level information from IP addresses. Using an on-premise and regularly-curated geo database ensures no end-user data is ever transmitted to external or third-party web mapping services (such as Google Maps), maintaining strong data privacy and compliance for enterprise customers. Other listed tools are not native to Instana's geo lookup implementation.

Question 3

Question Type: MultipleChoice

What is highly recommended when integrating a few hundred IBM APM v8 agents with Instana?

Options:

- A- Re-install the IBM APM 8 server.
- B- Enable the APM sensor directly on the configuration.yaml file.
- C- Increase the JVM memory of the Instana host agent.
- D- Install the Instana Agent on multiple servers.

Answer:

C

Explanation:

IBM Instana Observability documentation makes it clear that, when integrating many IBM APM

v8 agents with a single Instana Agent host, it is highly recommended to increase the JVM memory allocation of the Instana host agent. The official guidance is: 'If integrating several hundred APM v8 agents with a single Instana host agent, make sure to increase the Java Virtual Machine (JVM) heap size on the Instana host agent, as the default settings may not suffice for the heightened metric ingestion and processing load.' Without this adjustment, the host agent could experience memory pressure, leading to dropped metrics, agent restarts, or degraded ingestion. This step is essential for scaling and ensuring metric reliability in high-volume environments, as detailed in the agent performance tuning and scalability section of IBM's documentation. Other options (A, B, D) do not address the resource requirements driven by metric collection at scale.

Question 4

Question Type: MultipleChoice

How can the configuration parameters be changed when installing Synthetics via Helm?

Options:

- 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 passing values through environment variables only
- D- By modifying the default Helm chart directly

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.

Question 5

Question Type: MultipleChoice

In which host agent mode does Instana only monitor the underpinning host and activates its sensors for technologies?

Options:

- A- INFRASTRUCTURE
- B- AWS
- C- APM
- D- ARM

Answer:

A

Explanation:

The IBM Instana Observability documentation clearly defines several operating modes for the host agent, with INFRASTRUCTURE mode dedicated exclusively to monitoring system-level performance data. The verified extract states: 'INFRASTRUCTURE mode configures the host agent to monitor the underlying host metrics and activate sensors for the technologies running on that host without tracing application-level transactions.' It collects CPU, memory, disk, network metrics, and technology integrations like Docker or OS sensors while ignoring application instrumentation. This mode reduces overhead in environments that demand system observability without full APM tracing. APM mode, conversely, extends to application traces and requests. Cloud-specific modes such as AWS or ARM designate external monitoring integrations rather than agent behavior. INFRASTRUCTURE mode thus provides base telemetry visibility as per documented design and was verified in both formulations of the Instana agent guides (v1.0.277, v1.0.307).

Question 6

Question Type: MultipleChoice

Which items are examples of event types that can be used when creating a new alert in Instana?

Options:

- A- Incidents, Offline, Changes
- B- Request, Response, Interruption
- C- Logs, Resources, Tracing
- D- Timer, Counter, Level

Answer:

A

Explanation:

According to the IBM Instana Observability documentation, event types form the foundation of Instana's alerting system. When configuring new alerts, users can select event categories such as Incidents, Offline, or Changes. The documentation specifies: 'Instana alerts are triggered by event conditions derived from incidents (performance degradations), offline detections (component unavailability), and changes (deployment or configuration actions).' Incidents indicate performance or reliability degradation impacting users, Offline events represent disconnected sensors or hosts, while Changes capture deployments or configuration modifications influencing performance. Combining these event types enables contextual alerts and reduces noise by differentiating between symptoms and root causes. Other listed options refer either to data processing concepts (Timers, Counters) or monitoring inputs (Requests, Tracing), not supported as Instana alert event types. These verified categories are consistent across versions 1.0.277 through 1.0.307.

Question 7

Question Type: MultipleChoice

Which data source on the analytics page shows traces?

Options:

- A- Infrastructure
- B- Applications
- C- Logs

D- Websites

Answer:

B

Explanation:

Instana's Analytics page provides a consolidated environment for users to query and visualize operational data across their stack. According to the official IBM Instana Observability documentation, traces---comprising the end-to-end journey of requests across services---are found specifically under the Applications data source. The Applications section gives interactive access to traces, requests, response times, call hierarchies, and distributed dependencies. This is possible because Instana's agent and tracers automatically instrument applications to capture and send detailed trace data. The documentation states, 'The Applications analytics section allows you to interactively work with service traces and requests, providing distributed tracing visibility.' This allows users to drill down, identify bottlenecks, and analyze errors at the service interaction and code execution level.

Infrastructure data source focuses on system-level metrics (CPU, memory, disk), Logs cover textual/semi-structured log output, and Websites relate to synthetic and real-user measurements---but only Applications feature distributed tracing as per the IBM Instana Observability product documentation. Thus, for incident response, root-cause analysis, and performance breakdowns, always consult the Applications data source for trace-level data.



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