

Dynatrace Pro Cert BEST ANSWERS

2023/2024 VERIFIED ANSWER

What JMX metrics can Dynatrace monitor? - ANSWER-Dynatrace can monitor any metric in JVM that is exposed via an MBean.

What port is used for communication between OneAgent and Cluster ActiveGate? - ANSWER-9999

What port is used for communication between OneAgent and Environment ActiveGate? - ANSWER-9999

What port is used for communication between Cluster ActiveGate and Managed Cluster Node? - ANSWER-443

What port is used for communication between Environment ActiveGate and Cluster ActiveGate? - ANSWER-9999

What port is used for communication between Environment ActiveGate and Managed Cluster Node? - ANSWER-443

What port is used for communication between Environment ActiveGate and Cloud/virtualization environments? - ANSWER-443

Where does the OneAgentMon device appear? - ANSWER-Windows System during Dynatrace OneAgent installation.

What does the OneAgentMon device do? - ANSWER-Used for deep process monitoring. Works like monitoring driver and allows OneAgent to add its own library between OS and process it's monitoring

What kind of processes can you create OneAgent plugins for? - ANSWER-Detected processes by OneAgent that expose an interface (served over HTTP, databases, apps, load balancers)

How many times are superuser privileges used in Linux non-privileged mode? - ANSWER-Once to initiate installation process

What are the auto-instrumentation methods for iOS? - ANSWER-CocoaPods and Carthage

Does gradle auto-instrumentation for Android support direct boot mode? - ANSWER-No

Does gradle auto-instrumentation for Android support Android App Bundles? - ANSWER-No

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Page 9 of 36

Dynatrace Pro Cert BEST ANSWERS

2023/2024 VERIFIED ANSWER

Does gradle auto-instrumentation for Android support APK protection tools (i.e. Dexguard) - ANSWER-Not fully supported

Does iOS auto-instrumentation support automatic OneAgent startup? - ANSWER-Yes

Does iOS auto-instrumentation support automatic user action detection? - ANSWER-Yes

Is Xamarin a supported framework for Real User Monitoring? - ANSWER-Yes

How much log data transfer is available in the free-tier? - ANSWER-5 GB per year

What is the maximum amount of log data you can analyze? - ANSWER-500 MB

How many days of log data can you analyze? - ANSWER-You can analyze log files for only the past seven days.

How many log files can you analyze at a time? - ANSWER-Only one at a time in the context of your topology.

How long can you retain log data on the Dynatrace Server? - ANSWER-As little as 5 days or as much as 90 days

What is the minimum size of a log file for Dynatrace to automatically detect it? - ANSWER-0.5 KB

What is the minimum amount of time that a log file must exist for Dynatrace to automatically detect it? - ANSWER-1 minute

Is OneAgent restart required to apply AppLogAutoDetection settings in ruxiagentloganalytics.conf? - ANSWER-No

Where are log files stored for Dynatrace SaaS (log analytics)? - ANSWER-Amazon Elastic File Storage in zone where your Dynatrace environment resides

Are there additional costs for log file disk storage in Dynatrace SaaS? - ANSWER-No, disk storage costs are included in your log monitoring subscription.

How is log monitoring cost calculated? - ANSWER-It is based on the average size of your cloud-based log storage, including the amount of streamed log data and the defined retention period.

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2023/2024 VERIFIED ANSWER

How does Dynatrace receive data from VMware? - ANSWER-ActiveGate (usually Environment but can be Cluster) polls VMware platform (vCenter or standalone ESXi hosts)

What vCenter metrics are captured during VMware monitoring? - ANSWER-Clusters, ESXi hosts, VMs, VMs powered off, VMs suspended, VMs started, manual migrations, automatic migrations, daily average number of virtual machines and total migrations over last 7 days.

What can RUM conversion goals be based on? - ANSWER-Destination URL, specific user action, session duration, or number of actions per session.

What is the maximum amount of RUM conversion goals you can set per application? - ANSWER-20

What are the two access methods for AWS integration in Dynatrace Managed? - ANSWER-Key-based, Role-based

How often does Dynatrace make Amazon API requests? - ANSWER-Every 5 minutes

With Dynatrace SaaS, when you are integrating with AWS with Role-based access what Dynatrace component do you need? - ANSWER-Environment Activegate

What are the three steps for integrating Dynatrace with AWS? - ANSWER-1. Create AWS Monitoring Policy
2. Choose access method
3. Define AWS resource tagging

When connecting to AWS with role-based access with Dynatrace using an Environment ActiveGate, how many ActiveGates can have AWS_MONITORING_ENABLED set to true? - ANSWER-Just 1

How do you monitor Elastic Beanstalk with Dynatrace? - ANSWER-By creating a configuration to install OneAgent

How do you monitor AWS Fargate with Dynatrace? - ANSWER-Create a PaaS token and integrate OneAgent into the application image

How do you monitor Node.js Lambda functions with Dynatrace? - ANSWER-By using the Dynatrace NPM Module

Why would you want to use resource tagging with AWS? - ANSWER-To limit the amount of API calls being made to Amazon.

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2023/2024 VERIFIED ANSWER

Which UEM deployment will OneAgent handle automatically? - ANSWER-JS Tag insertion.

How does UEM work? - ANSWER-JS code sends data about user session to Mission Control. This data can correlate page actions to form a user session linking each action to a specific user.

What is a user session in Dynatrace? - ANSWER-A group of user actions that are performed in a web application during a limited period of time. Cookies are used to group those actions into a session.

How long are service trace and code insights retained? (SaaS / Managed) - ANSWER-10 days / Configurable

How long are service requests and attributes retained? (SaaS / Managed) - ANSWER-35 days / Configurable

How long is non Aggregated user data retained? (SaaS / Managed) - ANSWER-10 days / Configurable

How long is Aggregated user data retained? (SaaS / Managed) - ANSWER-35 days for both

How long are user sessions retained? (SaaS / Managed) - ANSWER-35 days for both

How long is Synthetic data retained? (SaaS / Managed) - ANSWER-35 days / configurable

How long are log analytics retained? (SaaS / Managed) - ANSWER-both are configurable between 5-90 days

How long are timeseries metrics kept for? - ANSWER-With some aggregation retention is unlimited.

(Windows) During Installation, OneAgent requires admin permissions for... - ANSWER-Creating the OneAgent service, modifying registry keys, installing winpcap, installing oneagentmon device, creating log analytics

How can custom user tagging be done? - ANSWER-Via the API or on page metadata.

Where is the user session tag stored? - ANSWER-In a cookie (rxVisitor).

What can you create user tags based off of? - ANSWER-CSS selector, JS variable, Meta tag, Cookie value. TODO: Also add the exact command for the RUM SDK.

Dynatrace Pro Cert BEST ANSWERS

2023/2024 VERIFIED ANSWER

What is the "--seed-ip <ip>" parameter used for? - ANSWER-Used when installing a secondary node. You specify the IP of the master node using this parameter.

What is the "--seed-auth <auth-token>" parameter use for? - ANSWER-Used when installing a secondary node. You specify a token from the master node, so that it knows that this installation is a secondary node.

(Linux) What features does Dynatrace OneAgent require root privileges for? - ANSWER-Access open sockets of each process, access list of libraries of each process, access name / executable path of each process, access command line arguments of each process, monitor network traffic, read application configuration files, parse executables for Go discover, and gather monitoring data related to Docker containers.

(Linux) What features does Log Analytics require root privileges for? - ANSWER-Accessing system logs: /var/log/syslog and /var/log/messages, accessing the list of open file handlers for each process (/proc file system), and accessing the log file for each process.

Does your Docker environment need to run in privileged mode in order to install OneAgent? - ANSWER-It requires privileged mode.

What programming languages are available to configure a Custom Service with? - ANSWER-Java, .NET, PHP, and Golang (Go).

How can you define where Custom Services are traced? - ANSWER-Can define the entry-point of a method in a class or use an implemented interface.

What attributes uniquely define web request services (e.g. what is used to detect them)? - ANSWER-Web server name, context root, and web application ID.

What attributes uniquely define database services (e.g. what is used to detect them)? - ANSWER-Database vendor and IP / port of the database.

How can you configure service detection to not consider ports? - ANSWER-An environment variable called "RUXIT_IGNOREDYNAMICPORT=true" can be set, which would replace the port value in the detection with a "".

How can you configure a custom (unique) web application ID so that processes with the same ID do not get grouped in service detection? - ANSWER-An environment variable called "RUXIT_APPLICATIONID" can be set, to define a unique application ID.

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2023/2024 VERIFIED ANSWER

What types of user actions are captured out of the box (by default)? - ANSWER-Load Actions.

What is the best way to keep an eye on the CPU usage of a host? - ANSWER-Dashboard it, in some type of fashion (e.g. Custom Chart).

What is the base end-point for making API requests on SaaS? - ANSWER-`https://{your-environment-id}.live.dynatrace.com/api` (NOTE THAT IT'S HTTPS AND NOT HTTP).

How does Dynatrace enforce an API limit on SaaS customers? - ANSWER-They limit the number of calls per second.

When filtering to a specific user tag, what types of user sessions show up along with it? (my wording is weird) - ANSWER-(PRETTY SURE): Other non-tagged user sessions on the same browser. Other user sessions with the same tag.

How can you upload a custom OneAgent plugin? - ANSWER-Can upload through the UI or use the "oneagent_upload_plugin" command line tool.

What is "Ready Time"? - ANSWER-Ready time is the percentage of time that a virtual machine is ready, but can't be scheduled to run on a physical CPU. (You want this below 10%.)

When deploying OneAgent onto OpenShift, why would the Hosts report as Kubernetes? - ANSWER-OpenShift is basically the UI for Kubernetes orchestration. In the end, it's still Kubernetes hosts.

What is the user session timeout? - ANSWER-30 minutes of inactivity.

What is the max number of user actions for a user session? - ANSWER-200

What type (not load, xhr, or custom) of user actions can cause bounces? - ANSWER-Entry actions.

Give some examples of services that we support out-of-the-box. - ANSWER-Java-based (Servlets, Jetty, etc.), Web-servers (Apache, Tomcat, NodeJs, etc.), Database-services (SQL, MongoDB, etc.).

What frameworks does Dynatrace support RUM auto-injection out-of-the-box? - ANSWER-Java, Apache HTTP Server, IIS, NGINX, and Node.js

What is the best way to keep track of error messages in logs? - ANSWER>Create an Error-type log event.