Process Group Settings

Dynatrace Training Module



Agenda

- Process Group Monitoring
- Process Group Detection

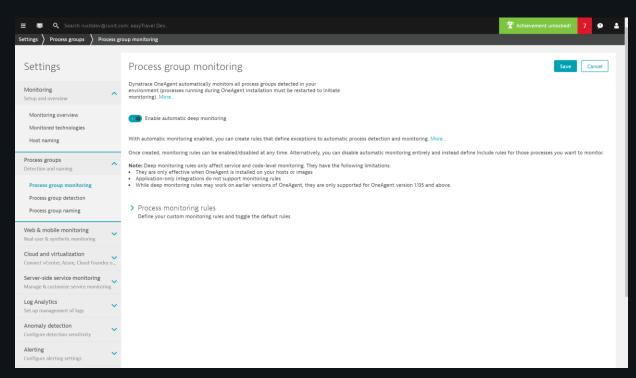
Process Group Monitoring

Process Group Monitoring

- Create rules to instruct the OneAgent which processes to target for Deep Monitoring
- Although the OneAgent automatically detects and monitors supported processes for service insights (purepath level), we recognize not all processes are of equal importance to your monitoring needs.
 - You may have a number of unimportant, or short-lived processes that you do not want to monitor at a code level.
 - You may not be able to run deep monitoring on applications that belong to your customers and are outside of your control.
 - Allow strict control over which processes are monitored
 - Dynatrace doesn't automatically perform deep monitoring of .NET and Go processes, as there are many arbitrary processes that rely on these processes.
- Process group monitoring rules can help

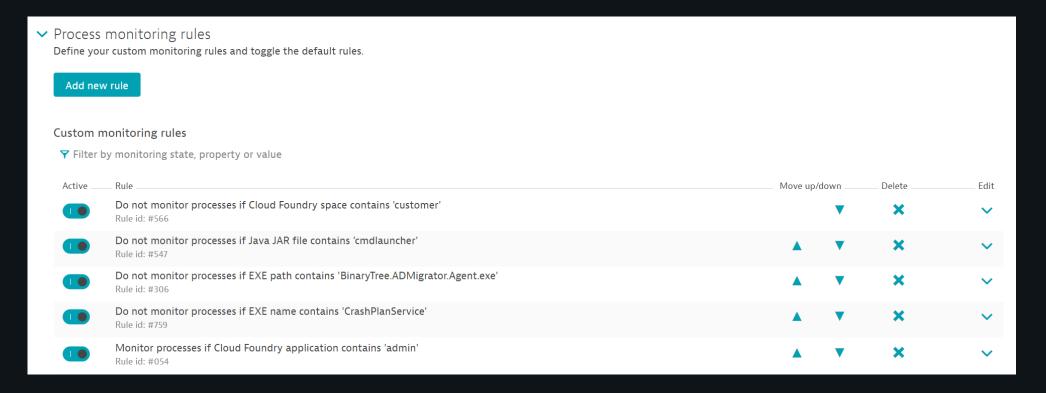
Set up process group monitoring

- The enable deep monitoring switch determines whether Dynatrace One Agent automatically runs deep monitoring of detected processes
 - When ON (the default setting), OneAgent runs deep monitoring for all processes it can monitor unless you specify exceptions for a specific process or by creating rules that define exceptions
 - When OFF Dynatrace OneAgent only runs deep monitoring on processes that match defined rules

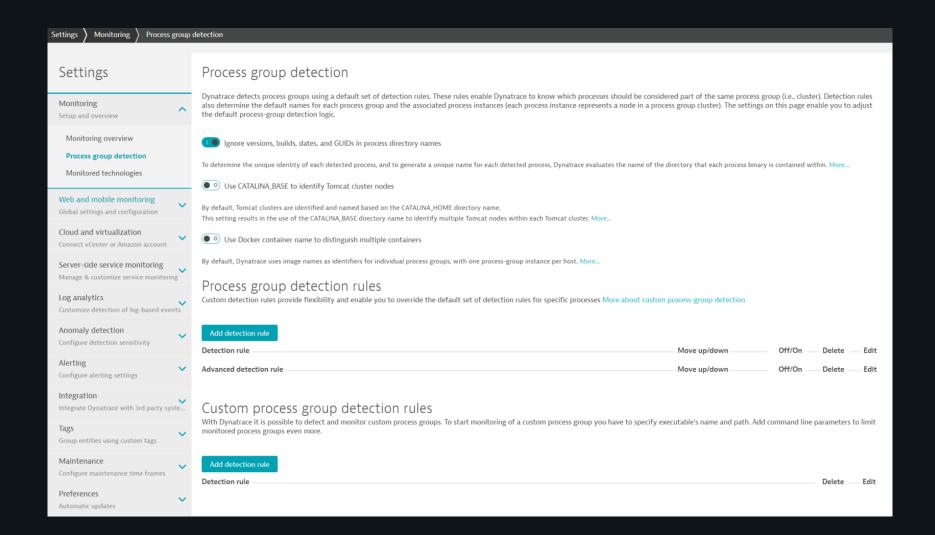


How Process Monitoring rules are applied

- Monitoring rules are split into two categories, custom rules and built-in rules.
- Custom monitoring rules are used to suit your needs for specific process monitoring



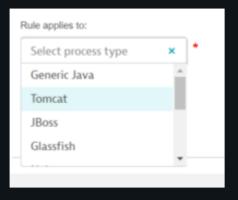
- Dynatrace automatically detects process
- Dynatrace also recognizes when multiple processes should be included in the same process group
- This approach to process detection works fine in most cases, but isn't perfect
- This is why we've enabled you to customize how Dynatrace detects and identifies host processes in your environment



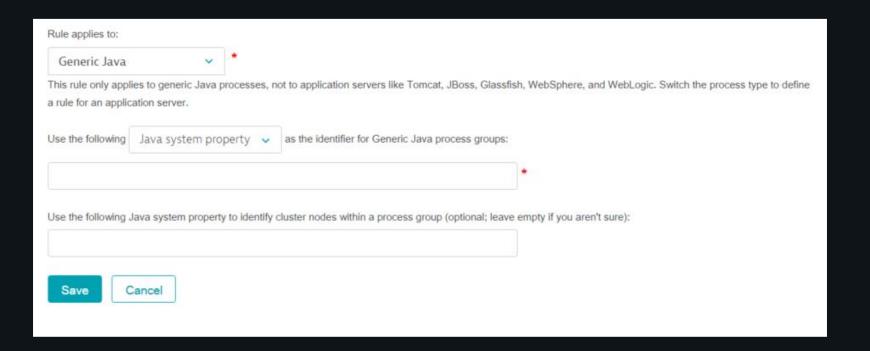
- Ignore versions, builds, dates, and GUIDs in process directory names
 - To determine the unique identity of each detected process, and to generate a unique name for each detected process, Dynatrace evaluates the name of the directory that each process binary is contained within
- Use CATALINA_BASE to identify Tomcat cluster nodes
 - By default, Tomcat clusters are identified and named based on the CATALINA_HOME directory name
- Use Docker container name to distinguish multiple containers
 - By default, Dynatrace uses image names as identifiers for individual process groups

Create manual rules on how you want to detect and group together certain processes

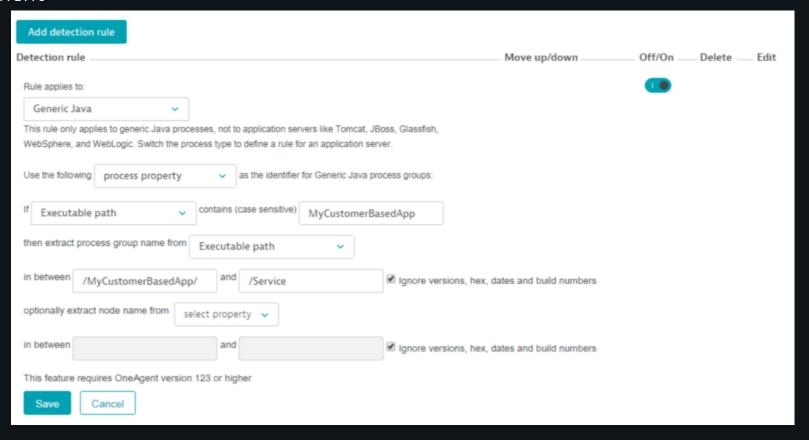
Process group detection rules Dynatrace detects process groups using a default set of detection rules. These rules enable Dynatrace to know which processes should be considered part of the same process group (i.e., cluster) and they specify how each process group should be named. By setting up custom detection rules on this page, you can override the default set of detection rules for specific processes. More about customizing process-group detection Add detection rule Detection rule Move up/down Off/On Delete Edit



- While system properties remain the preferred method for setting up process-group detection for Java processes, we've extended the new functionality to Java process-group detection as well
- So, now when you set up process-group detection for Java processes, you have the option of using either Java system properties or environment variables to identify your process groups.



- Dynatrace gathers a lot of domain knowledge about the processes it monitors
- This domain knowledge can now be leveraged for enhanced process-group detection in your environment

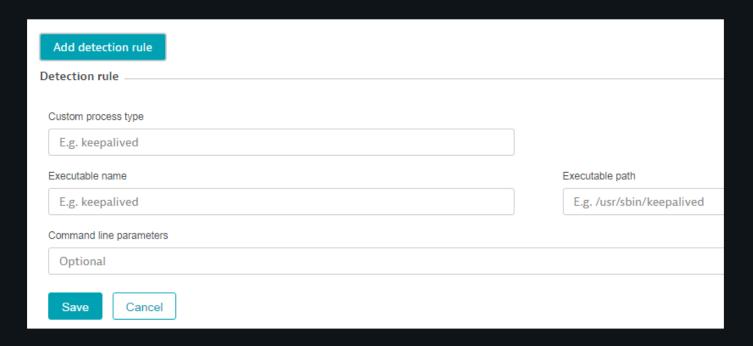


Custom process group detection

- Dynatrace only monitors process group types that are considered to be important
- Valuable process group types that Dynatrace reports on by default include:
 - Java application server (for example, Tomcat, WebSphere, WebLogic, Glassfish, and JBoss)
 - All other Java applications
 - All .NET applications
 - Databases (for example, MS SQL, Oracle, MySQL, and Cassandra)
 - Additional technologies (for example, Node.js and PHP)
 - Web servers (for example, Apache and IIS)
 - Processes that have an open TCP listening port or for which CPU/memory usage or network traffic exceeds 5% within 3 samples taken within 5 minutes

Custom process group detection

- Click the Add detection rule button
- Type in the information that OneAgent needs to identify the custom process group (Custom process type, Executable name, and Executable path)
- (Optional) Type in any Command line parameters to filter the monitored process groups further



Questions?



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