DTA - Database tuning advisor

Last updated by | Lisa Liu | Nov 6, 2020 at 10:35 AM PST

DTA- Database tuning advisor

Monday, October 22, 2018
5:15 PM

DTA stands for database tuning advisor. It's a new feature in Orcas (PostgreSQL). Similar to the existing feature in SQL DB, DTA analyzes the Orcas database and make recommendations (e.g. creating/dropping index). It is a process which is kicked off as a child process of Orcas Instance Agent (IA) when the user requests to do so. IA exposes REST APIs to kick off DTA and retrieve recommendations.

We'll expose new APIs in Management Service for DTA. The new APIs will let users kick off DTA (long running operation) and retrieve the recommendations (polling). In SQL DB, there is a concept called advisors. Different advisors make different types of recommendations. Currently there is only one advisor (Create Index) for Orcas. We'll expose another API for advisors like SQL DB does.

This feature allows users to trigger creation of new recommendations for a selected DB on the Azure portal. Resulting recommendations are then presented on the portal. The component containing the index recommendation algorithm is Database Engine Tuning Advisor (DTA), a standalone application designed to create recommendations for SQL Server. We plan to augment DTA in order to be able to create recommendations for PostgreSQL, too. Instance Agent invokes DTA in order to create new index recommendations.

Created with Microsoft OneNote 2016.

How good have you found this content?