

Data Sheet

Tesora Database as a Service Platform

An enterprise-ready and hardened version of Trove, the native database offering for OpenStack clouds



Why Tesora Database as a Service Platform?

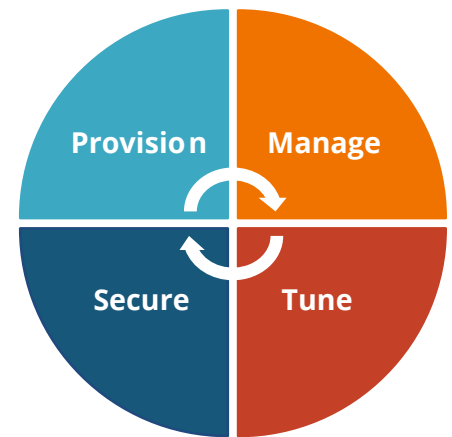
- Reduces time to market
- Increases IT productivity
- Offers best DB for the job
- Ensures compliance
- Maximizes resource usage

Tesora Database as a Service (DBaaS) Platform is highly scalable, open and secure software that offers support for the databases your users are looking for along with the agility they demand today. It includes features that enterprises depend on for self-service provisioning and management of 16 popular open source and commercial databases in production environments including Oracle, MySQL Enterprise, EnterpriseDB, and DataStax Enterprise.

Tesora is the top contributor to the OpenStack Trove Project and the only company focused on productizing Trove, making it easy for enterprises, systems integrators, and cloud service providers. Tesora aims to be your trusted advisor for everything your company needs succeed with Database as a Service on OpenStack.

Complete Database Lifecycle

Offering self-service databases requires more than just automated provisioning. Tesora's complete solution manages a database from its initial provisioning, performance tuning, security hardening, schema management, and backup creation/restoration. In addition, with Tesora's Guest Image Lifecycle Management offering you can access up-to-date database images and update them in live environments, ensuring your users are working with the latest and most secure versions.



Database Lifecycle Management

The Latest Trove Features

Today's OpenStack users are not always on the latest version. For this reason Tesora delivers the latest Trove functionality on all OpenStack versions back to the Juno release. And unlike OpenStack community code which is released twice a year, Tesora updates its DBaaS Platform four times a year so you get access to early upstream features along with immediate bug fixes and patches.

Tested and Certified

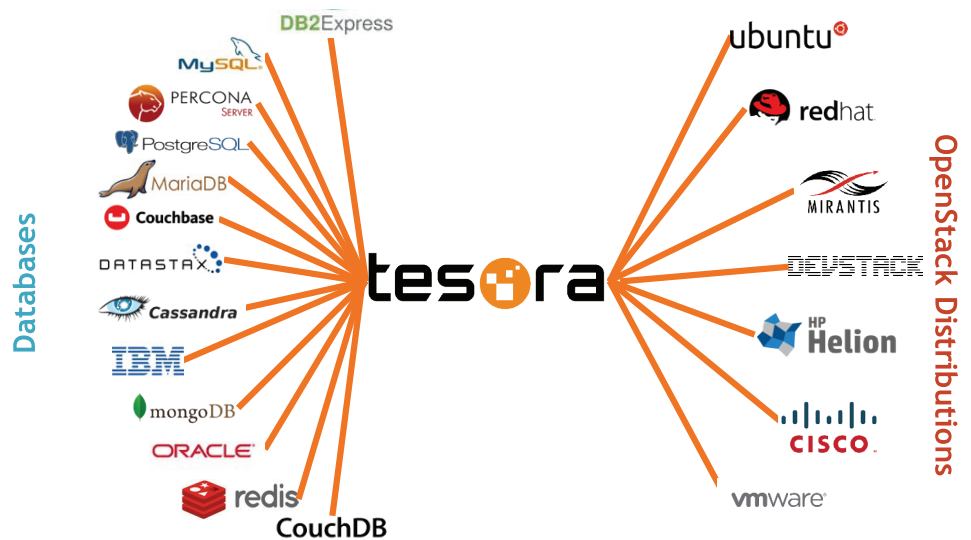
Trove's guest images are stored in OpenStack Glance and provisioned using Nova when a user requests a database. The Trove community, however, does not provide these guest images. As a result, creating and maintaining them is left to the end user. To make your life easier, Tesora builds, tests, hardens, patches and certifies guest images for all supported databases.

Enterprises also want to know that their Trove solution will work with their preferred OpenStack distribution and databases. Tesora extensively tests every supported database with the most popular OpenStack distributions and has the most extensive Continuous Integration test suite. Tesora has also tested and certified the DBaaS Platform with most major OpenStack distributions including RedHat Enterprise OpenStack, Canonical, Mirantis, HP Helion, and VMWare VIO.

When testing uncovers a problem Tesora promptly submits the fix to the Trove community (upstream). Tesora also constantly integrates these bug fixes along with others from Trove contributors into our own distribution. As a result, you can be confident that the Tesora DBaaS Platform is more reliable than other versions of the Trove code.

Enterprise Services and Support

Tesora DBaaS Platform is backed by services tailored to the enterprise. These include training, deployment assistance, architecture consultation, and enterprise support. Enterprise Edition customers can choose from support service levels including 5x11 for non-critical issues or 7x24 for critical production outages along with accelerated bug fixes, patches and point releases.



OpenStack Distribution and Database Testing

Platform Highlights:

OpenStack DBaaS, Now

Add DBaaS to your OpenStack cloud in hours with no custom coding required.

On-Demand Provisioning

Up to 16 databases including Oracle, Cassandra, MongoDB, MySQL, and PostgreSQL.

Automated Backup and Restore, Replicas

Everything you need to manage and maintain on-demand databases.

Enterprise-Grade Security

Additional policy-driven features to keep your databases private.

Clustering

Meet high-availability requirements with clustering support.

Learn more about how the Tesora Database as a Service Platform can change the way you provision and manage databases:

www.tesora.com
info@tesora.com
 1-978-707-8010

Download a free trial at:
www.tesora.com/free

Tesora Database as a Service Platform

Technical Specifications

Capabilities by Database Type

	MySQL	Oracle	MongoDB	PostgreSQL	Cassandra	Redis	Couchbase
Basic Provisioning	✓	✓	✓	✓	✓	✓	✓
Resize Storage/Compute	✓	✓	✓	✓	✓	✓	✓
Schema Management	✓	Partial	✓	✓	✓	N/A	N/A
User Management	✓	Partial	Partial	✓	✓	N/A	Partial
Backup/Restore	✓	✓	Partial	✓	Partial	✓	Partial
Database Configuration	✓	✓	✓	✓	✓	✓	
Cluster Provisioning	Partial	Partial	✓		✓	✓	✓
Replication	✓	✓	With Clusters	✓	With Clusters	✓	With Clusters
Log Retrieval	✓	✓		✓	✓		
Event Notification	✓	✓	✓	✓	✓	✓	✓
Guest Upgrades	✓		✓	✓	✓		✓
Datastore Management	✓	✓	✓	✓	✓	✓	✓
Resource Management	✓	✓	✓	✓	✓	✓	✓
Security Management	✓	✓	✓	✓	✓	✓	✓

Supported Capabilities

Basic Provisioning: Create, list, delete, update and restart instances

Resize Storage/Compute: Resize instances and volumes

Schema Management: Create, list and delete databases

User Management: Create, list, delete and update users; set read/write permissions

Backup/Restore: Create full or incremental backups, also restore from a backup

Database Configuration: Create, delete, attach, detach and update databases

Cluster Provisioning: Create, delete, grow and shrink clusters

Replication: Create and manage replicas along with placement

Log Retrieval: Retrieve, list, publish, display and download logs

Event Notification: Begin/end/error events for all state changes

Guest Upgrades: Upgrade a running instance to a new DB or DBaaS version

Datastore Management: List available datastores and related details

Resource Management: Define minimum storage and CPU configurations

Security Management: Show, create and delete security settings

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Compatibility

Certified Datastores

- Cassandra 2.2, 3.0
- Couchbase 3.0, 4.0
- Couchbase Enterprise 4.1
- CouchDB 1.6.1
- DataStax Enterprise 4.8
- DB2 Express 10.5
- EDB PostgreSQL Enterprise 9.4
- MariaDB 10.1
- MongoDB 3.2
- MongoDB Enterprise Edition 3.2
- MySQL 5.6, 5.7
- MySQL Enterprise 5.6, 5.7
- Oracle 11g and 12c
- Percona 5.6, 5.7
- Percona XtraDB Cluster 5.6
- PostgreSQL 9.4
- Redis 3.0

Certified OpenStack Distributions

Canonical: Juno, Kilo, Liberty, Mitaka
RHOSP: Juno, Kilo, Liberty
RDO: Juno, Kilo, Liberty, Mitaka
Mirantis: Juno, Kilo, Liberty

Linux Versions

Centos 7.x
Red Hat Enterprise Linux 7.x
Ubuntu 14.04

Specifications subject to change. Please contact Tesora for more information.