



Nutanix Era: Elegant and Efficient One-Click Database Operations

KEY BENEFITS OF ERA

- › **Increases business agility and innovation rate:** Replace time-consuming and complex database operations with automated services, allowing resources to focus on business initiatives.
- › **One-click database operations:** Consumer-grade database management for all different database engines.
- › **API-first architecture with full operational visibility:** Easily integrate with your preferred self-service tools.

THE CHALLENGE OF LEGACY DATABASE ENVIRONMENTS

Many organizations are moving to a database as a service (DBaaS) model for managing and operating their databases, because DBaaS or cloud data-base models are efficient, agile, cost effective, and scalable. What if copying a database were as easy as the copy and paste operations on your computer? Who wouldn't want to introduce a level of standardization to their database estate, when traditional methods for database provisioning, patching, and life cycle management are complex and inefficient?

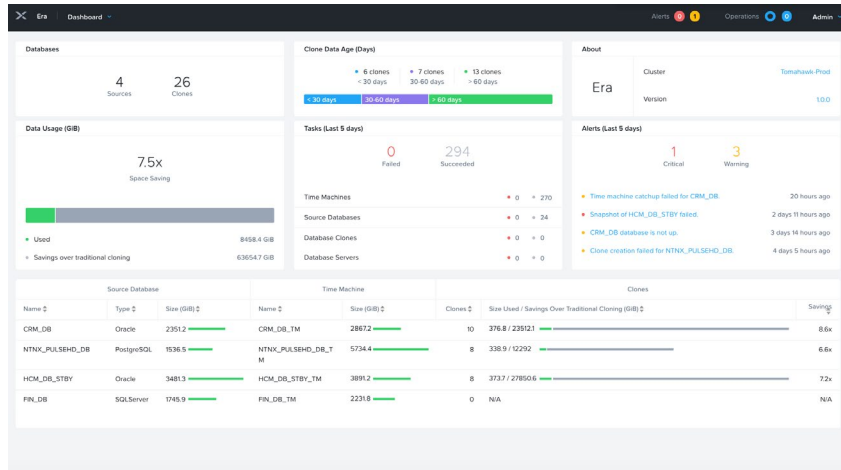
To provision each database, database administrators (DBAs) must decide whether to configure compute as a single VM or as multiple VMs in a cluster. Storage provisioning often requires setting up multiple disk groups to handle the different kinds of database data, including data files, software, online logs, log files, and local backups. Once you establish the compute and storage and have an environment ready, you can start setting up the database server by installing the database software. If you're working with a clustered system, this setup process also requires you to install, configure, and test additional components. You also have to define backup policies to protect the new database, and these policies require integration with different backup software and hardware technologies.

Once a database is up and running, the cloning and data refresh processes associated with it can be complex as well. To create clones, you must first identify the right backup set, along with any necessary log files. After locating the backups (tapes or secondary sources), cloning is a complex recovery process that includes setting up the database server, connecting to the database, restoring database backups, and finally replaying the database logs to a specific time. Then you must regularly refresh all these database copies and clones with the source data for them to continue to be useful. Now imagine scaling this effort to hundreds of databases supporting different groups (test/dev, BI, QA, and so on) within your organization.

The 2016 IDC report on copy data management (CDM) showed that 77% of the organizations surveyed have more than 200 database instances, while 82% have at least 10 copies of each instance. Based on these figures, we can estimate that the typical DBA must provision, manage, refresh, and perform other database operations for over 2,000 database instances. Managing all these instances is complex and time-consuming, a situation that is further exacerbated when the databases run on a wide variety of legacy software and hardware technologies.

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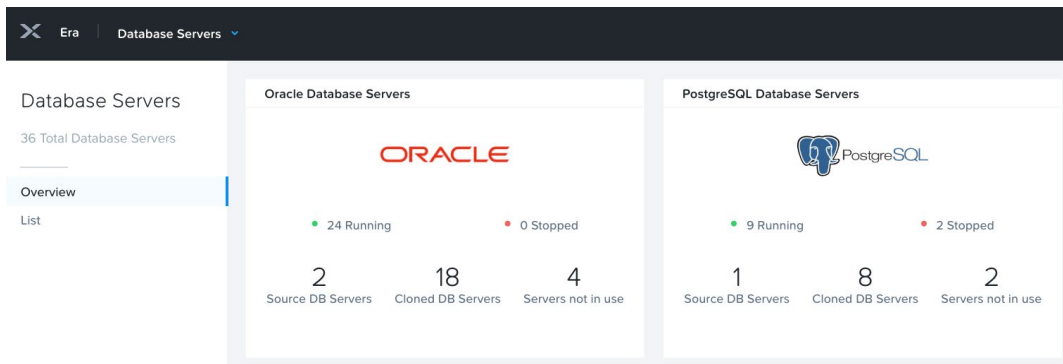
Nutanix Era makes Nutanix Enterprise Cloud the ideal platform for running databases. Nutanix Era is a software suite that automates and simplifies database administration, bringing one-click simplicity and invisible operations to database provisioning and life cycle management (LCM). With one-click database provisioning and CDM as its first services, Nutanix Era enables DBAs to provision, clone, and refresh their databases to any point in time. The API-first Nutanix Era architecture can easily integrate with your preferred self-service tools, and every operation has a unique ID and is fully visible for auditing.



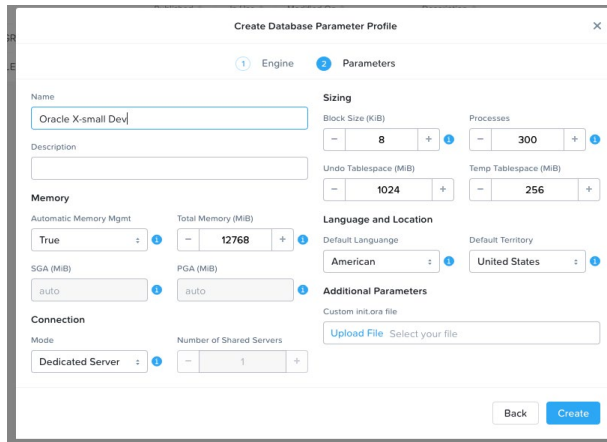
NUTANIX ERA ONE-CLICK PROVISIONING

Nutanix Era hides the complexity of database operations and provides a set of common APIs, a CLI, and a GUI that simply work across multiple database engines. Nutanix Era allows DBAs to define standards for their database provisioning needs with end-state driven functionality that includes HA database deployments for mission-critical clusters. The Era provisioning service includes:

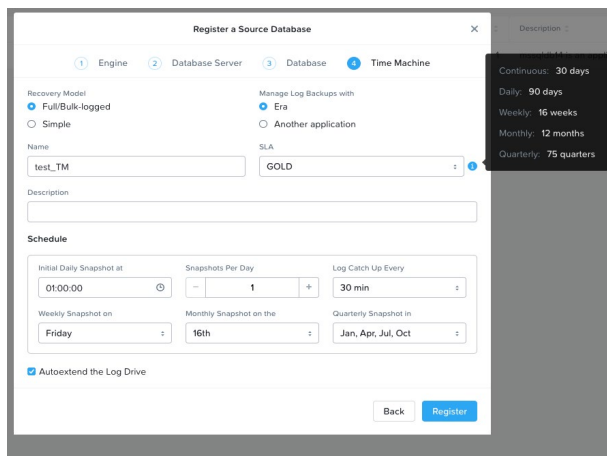
- Database engines: Custom software images tailor-made to enterprise needs (including support for PSUs and one-off patches).



- Database catalog: Customizable database profiles for software, compute, networking, and database parameters.



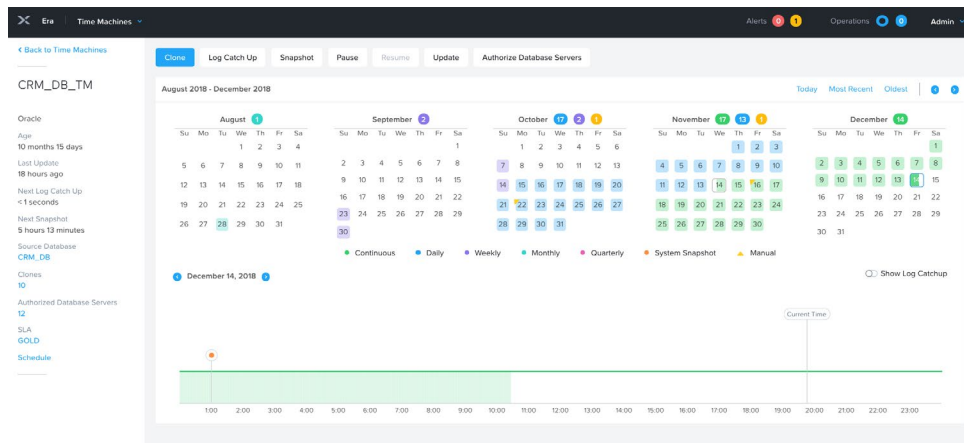
- Database recovery SLAs: Sophisticated and customizable recovery SLAs for continuous, daily, and monthly RPOs.



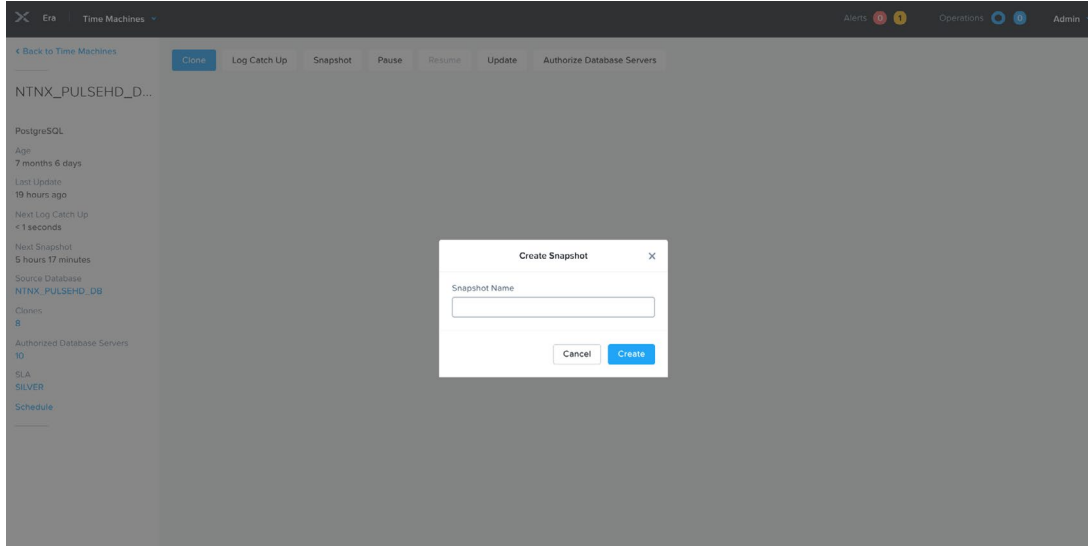
NUTANIX ERA COPY DATA MANAGEMENT

We believe that management operations for databases that are terabytes in size should be just as easy as the copy and paste operations on your personal computer. Nutanix Era copy data management services include:

- Time Machine enforcement for DB retention SLAs: Powers one-click database copy and paste operations from any point in time while maintaining QoS for specific SLAs.



- One-click cloning and refresh: Zero-byte database clones to any point in time with the option of inserting pre- or post-masking scripts.
- One-click backup: Consumer-grade database operations for backing up any size database in a full database consistent manner within a matter of minutes



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Nutanix makes infrastructure invisible, elevating IT to focus on the applications and services that power their business. The Nutanix enterprise cloud platform leverages web-scale engineering and consumer-grade design to natively converge compute, virtualization and storage into a resilient, software-defined solution with rich machine intelligence. The result is predictable performance, cloud-like infrastructure consumption, robust security, and seamless application mobility for a broad range of enterprise applications. Learn more at www.nutanix.com or follow us on [Twitter @nutanix](https://twitter.com/nutanix).

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