

Database Automation & DevOps Support

- Customized automation of your entire day-to-day database tasks with several Automation languages & DevOps tools.
- Sophisticated tools for Infrastructure as Code (IaC) such as Puppet, Chef, Ansible, SaltStack, and Terraform help DBAs complete all their tasks efficiently.
- Automate end-to-end monitoring of database-related services, Jobs, files, tasks & activities.

Why Database Automation? (Few benefits)

- Easy to Track: Automate run of database scripts with log output
- Time Savings: Allow management of databases with single click
- Money Savings: Operational Cost Optimization by reducing Manpower & Infrastructure costs
- Error Free: Minimize human error in operations
- Process Oriented: Standardized deployment
- Quick solution for ad-hoc requests

Why Database Containerization? (Few benefits)

- Integrate database implementation with the CICD pipeline.
- HELM Chart: Rebuild the entire environment in minutes.
- Can set additional security in Container & Pod level
- Best suit for microservices deployment

Database Automation: -

We can almost automate any of your Database tasks to your needs, either by using the right-fit tools available in the market or customizing your needs in depth by using programming like Ansible, Terraform, Shell, PowerShell, and Python with the combination of database languages like SQL, PL-SQL, TSQL, PSQL & JSON, etc. This includes:

NOTE: **RED** Colored content, we already implemented to other customers.

1. Database Administration Activities: Any day-to-day database administration tasks such as:

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- Database Backup execution
 - Database Hardening
 - Database Compliance Check
 - Database Daily Health Check
 - Database Restart
 - Attach Database Stop & Start along with OS script
 - Database logs housekeeping
 - Database Reporting
 - Database Refresh
 - Automatic users killing

2. Database Development Activities, such as:

- Database Creation
- Database Upgrade
- Database Migration
- Create new PDB via OEM
- Database Provisioning using IaC

3. Database Deployment Activities: Smooth, fast & error free deployments, such as

- Data Deployment in the database
- DDL Deployment

4. Database Disaster Recovery

- Automate container databases DR procedures using Kubernetes: HELM chart
- Automate (ANY) cloud & on-perm database DR procurement using Terraform

5. Database Monitoring Automation (with threshold alert to email/slack etc.)

- Database Backup monitoring
- OS Storage drive space monitoring
- Database Space growth monitoring
- Database incident logs monitoring
- Performance Tunning bottle neck threshold monitoring (Locks, Blocks etc.)

DevOps Support

Database as Container Service: Design & implementation of databases (Standalone, master, and slave setup) with docker images as Container

Container Orchestration: We manage containers using Kubernetes to implement high-featured options.

Maintenance support for existing database containerization & Orchestration setup.

Setup Ansible and Jenkins to drive automation on routine tasks

Technologies we use

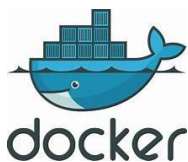
For configuration Management



For Infrastrure as a Code (IaaC)



For containerization



For Container Orchestration



For Containerizing image storage



For Database Technologies we cover:



Cloud Technologies we cover:

