



## Druva Phoenix: MySQL Server Backup

Druva Phoenix is an enterprise-class, disk-based backup solution, optimized for remote and branch office servers. It features a robust MySQL Agent for high-performance disk-based backup of MySQL Server enabling 24/7 protection for SQL databases.

With enterprises requiring uninterrupted protection of their data, MySQL Server databases require special back-up procedures. The Phoenix MySQL agent creates backups of entire MySQL data repository including all the databases, tables and configurations served by a given MySQL server instance. Multiple instances of MySQL server are supported through different backup sets.



## Features

### Quick Configuration

The Phoenix MySQL agent makes it easy to quickly configure MySQL instances for backup. It allows the administrator to setup a backup schedule, notifications and retention policies which can be customized for each MySQL instance. The user-friendly GUI and comprehensive reporting allow the administrator to centrally manage backups.

### Hot Backup

The Phoenix MySQL agent performs hot backups of supported database repositories and tables. MySQL backup is performed by taking a VSS (for Windows) and LVM (for Linux) snapshot of the MySQL data directory while Phoenix creates a backup from the snapshot volume. This facilitates hot backups without having to stop the MySQL server.

### Ever-Incremental Backups

The Phoenix MySQL agent considers only those files which have changed since the last backup. From within these files, only the changed blocks are synced with the server, ensuring that backups are forever incremental.

### Instant Restores

The Phoenix MySQL agent creates file-level backups of databases. The MySQL Configuration and Data components are restored exclusively, allowing a restored instance to go online without any interruption or intervention. This makes restores a quick, one-step process.

### Flexible Retention Policy

Data retentions policies are flexible and easily configurable using the Phoenix MySQL agent. The administrator can use the same retention policy for all MySQL instances or, configure exclusive policies for each instance.

### Notifications

The Phoenix MySQL agent enables the administrator to receive email notifications which provide summary as well as detailed logs of all backups. This facilitates administration of the MySQL backups.

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Details Parameters Notifications

MySQL user name:

MySQL user password:

MySQL host address:

MySQL port number:

LVM snapshot size percentage:

Backup MySQL config:

Backup MySQL binary logs:

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Details Parameters Notifications

Backup set name:

Backup description:

Storage quota:

Keep all backups for  days

Keep weekly backups for  weeks

Keep monthly backups for  days

Tip: Set all three to 0 to keep all backups.

## Security

The Phoenix MySQL agent uses backup agent initiated network connections. Entire network communication between the client and the server is encrypted using 256 bit SSL encryption. Backup storage is encrypted using advanced 256 bit AES encryption, ensuring end-to-end protection of the MySQL instances.

## Advantages

### Advanced Data Deduplication

The MySQL agent leverages Phoenix's global source-based data deduplication technology to save a single copy of data duplicated across applications, servers and locations. This guarantees 100% duplicate elimination; saving over 90% backup time, and lowering storage costs by 90%.

### Continuous Data Protection

Using near-CDP, the Phoenix server maintains point-in-time copies of data with hierarchical restore points accessible by the MySQL agent. During restore, a timeline view of the database instances in the form of multiple restore points is displayed. Each restore point facilitates restoration of an instance from any point in time.

### WAN Optimization

The Phoenix MySQL agent provides a flexible backup schedule to run hot backups at the most convenient times without requiring the backup window associated with traditional backup agents.

The Phoenix server provides smart bandwidth throttling based on percentage limits set for different available networks. It automatically calculates optimal packet size and makes the best use of available bandwidth, optimizing use of the backup window and saving over 90% bandwidth and backup time.

### Supported Platforms

The Phoenix MySQL agent supports the MySQL 5.x on Windows and Linux platforms. For a Windows client, the MySQL backup is created using the Volume Shadow Copy Service (VSS), while a Linux client uses Logical Volume Manager (LVM) to create MySQL backup.

### The Bottom Line

Enterprises are increasingly dependent on databases for critical transactions. Considering exponential growth in data, they need to identify a database backup solution that fulfils their database protection needs while minimizing the backup and recovery downtime. The Phoenix MySQL Agent is designed keeping mission critical databases in mind. It ensures backups are simple, secure and non-intrusive while uniquely leveraging data deduplication and near-CDP to define new standards of database server backup.

**Druva Phoenix** features simple setup and configuration, non-intrusive and high-performing backups, point-in-time restores coupled with patent-pending deduplication technology to offer unmatched backup performance and storage savings.

It's scalable up to 16TB of dedupe data and supports nearly 100 agents on a single backup server. With Phoenix, remote office backups are simple, secure, and completely non-intrusive.

#### Advantages:

- ✓ **Industry-first Application-Aware deduplication** offers 90% storage and bandwidth savings
- ✓ **Cost Reduction** with elimination of tape infrastructure and low storage growth
- ✓ **Multi-platform support** with database specific agents
- ✓ **High performance** with hypercache technology
- ✓ **Deployment Flexibility**
- ✓ **Ease of use** with quick installs and zero manual intervention
- ✓ **Centralized Administration**

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