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Introduction

- 1 The Maintenance Window in Amazon RDS is a set time for AWS to perform maintenance on your database.
- 2 During this time, AWS may apply security patches, software updates, and minor version upgrades.
- 3 This keeps your RDS instance secure and running smoothly

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Key Points

- 1 Why It's Important Maintenance helps fix security issues, improve performance, and ensure the database is up-to-date
- 2 Choosing a Maintenance Window
 - 1 You can pick a day, time, and duration (up to 8 hours) for maintenance.
 - 2 It's best to select low-traffic hours to avoid disruptions
- 3 Automatic Minor Upgrades
 - 1 AWS can automatically apply minor updates during the window, keeping your database safe and stable.
 - 1 5.6.1 to 5.6.2 is a minor update within the 5.6 series
 - 2 Moving from 5.6 to 5.7 is a major version change
 - 2 Major upgrades are only done manually
 - 1 These are larger updates (e.g., going from MySQL 5.6 to 5.7), which might include changes to features or configurations.
 - 2 You must initiate these upgrades manually because they might require testing or adjustments on your part to ensure compatibility with your applications
- 4 Tasks Done in Maintenance
 - 1 Security Patches
 - 2 Software Updates
 - 3 Hardware Maintenance
- 5 Adjusting the Window Later If needed, you can change the maintenance window at any time in the RDS settings.
- 6 Notifications AWS sends alerts about upcoming maintenance so you can prepare

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Maintenance Considerations

- 1 Single-AZ
 - 1 Maintenance causes downtime, so it's best for non-critical workloads
 - 2 Choosing a low-traffic maintenance window is essential
- 2 Multi-AZ
 - 1 During maintenance, AWS applies updates first to the standby instance.
 - 2 Once the standby is updated, RDS performs a quick failover, promoting the updated standby to primary.
 - 3 This process keeps downtime short because the main instance is only offline for a little while during the switch
- 3 Multi-AZ DB Cluster
 - 1 Maintenance in a Multi-AZ cluster is handled in a way that doesn't impact the primary instance.
 - 2 Updates can be applied in stages across instances, allowing for maintenance with no downtime or service interruption

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Deletion Protection

- 1 in Amazon RDS is a feature that prevents accidental deletion of your database instance
- 2 When enabled, it blocks any deletion attempts, adding an extra layer of protection, especially for production databases or critical environments
- 3 To delete a protected instance, you must first disable Deletion Protection, adding an extra step to the process