

Introduction

- Without RDS Proxy



With RDS Proxy



1 Connections to RDS

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| 2 | Key Issue | Direct connections can lead to problems |
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- ## 1 RDS Proxy as an Intermediary

- ## 1 Connection Pooling

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| | 1 | The proxy sets up a connection pool, which is a group of pre-established connections to the database |
| | 2 | Instead of opening and closing new connections for each request, it reuses these pooled connections, saving resources and improving performance |
| Handling | | If your database is in a Multi-AZ setup, RDS Proxy is configured to automatically switch to the standby database in case of failover, ensuring minimal downtime |
| Authentication and security using AWS Secrets Manager | 1 | You configure RDS Proxy to use AWS Secrets Manager to securely manage database credentials |
| | 2 | The proxy handles authentication, so your application doesn't need direct access to sensitive credentials |