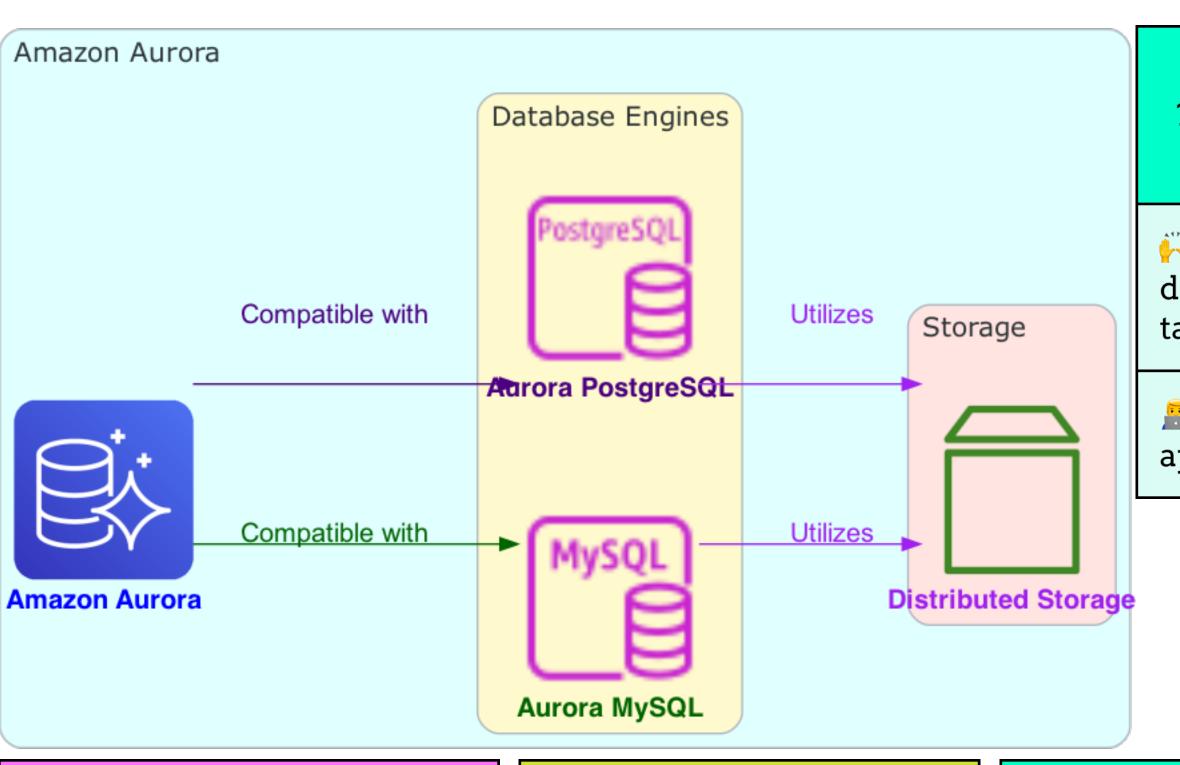


# Amazon Aurora

#### What is Amazon Aurora?



- Fully managedrelational database engine
- AWS handles database management tasks
- Users focus on applications

- 2. Compatible with MySQL and PostgreSQL
- MySQL compatibility
- PostgreSQL compatibility
- Speed and reliability of open-source
- Cost-effectiveness of open-source

- Migh throughput
- 3. compared to MySQL, PostgreSQL
- Up to 5x throughput of MySQL
- Up to 3x throughput of PostgreSQL

- 4. Utilizes existing code, tools, and applications
- Leverage existing MySQL and PostgreSQL assets
- Minimizes need for extensive modifications

- 5. High-performance storage subsystem
- Optimized for fast distributed storage

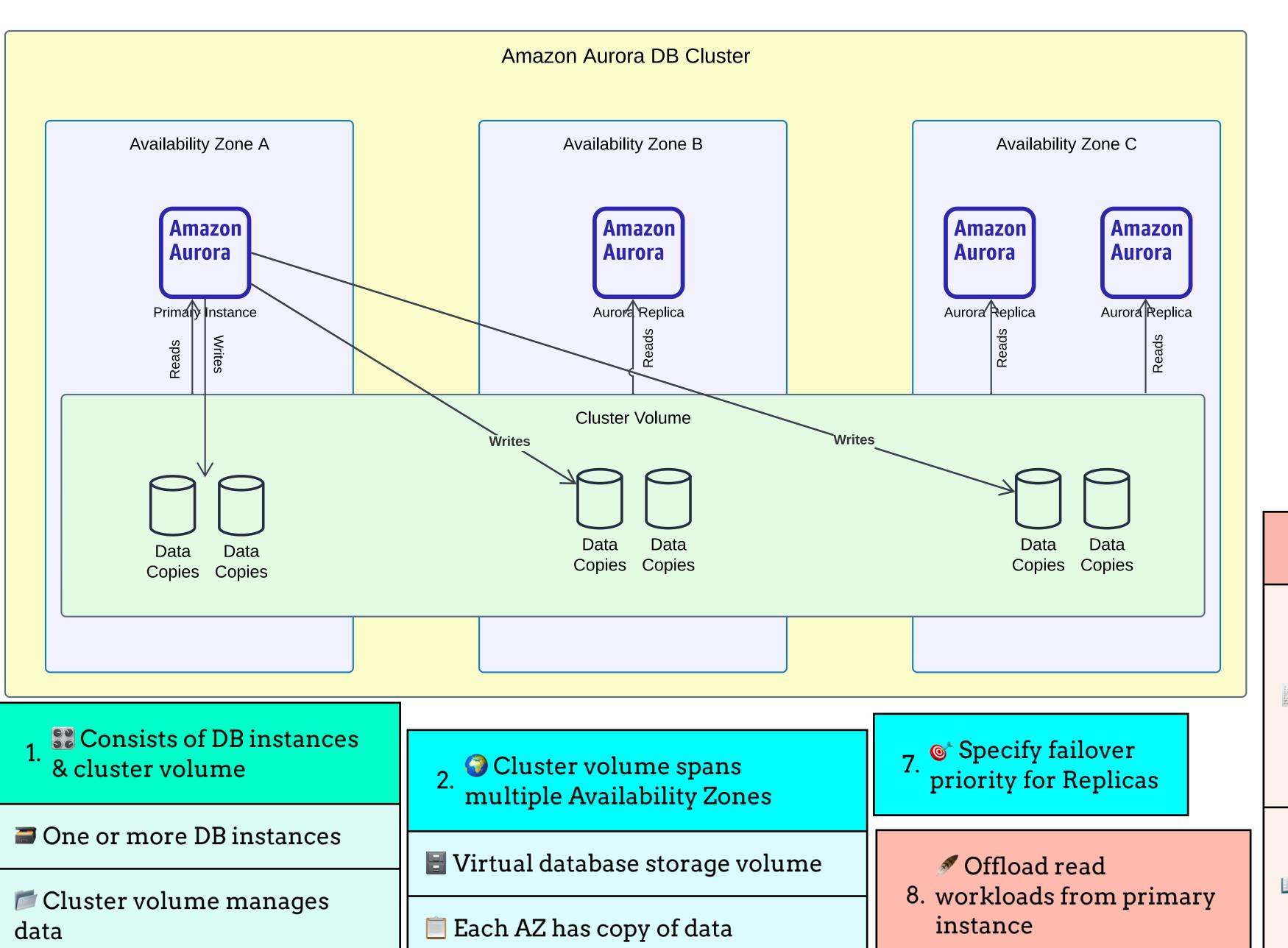
- 6. Automatic storage growth up to 128 TiB
- ✓ Storage automatically grows as needed
- Maximum capacity of 128 tebibytes (TiB)

- # Automated database7. clustering and
- Simplifies complex configuration tasks

replication

Automates and standardizes processes

#### Amazon Aurora DB Clusters

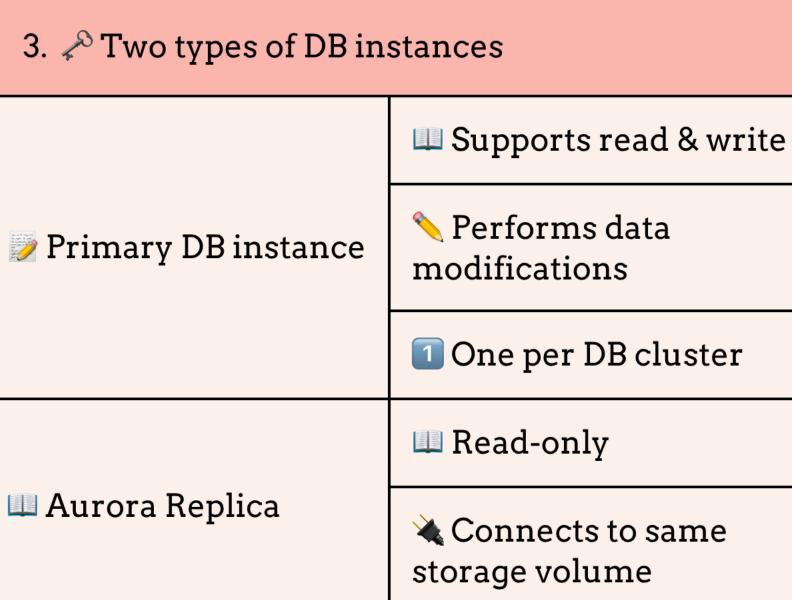


4. ○ Up to 15 Aurora Replicas per cluster

5. High availability with Replicas in separate AZs

6. Automatic failover to Aurora Replica

※ If primary becomes unavailable



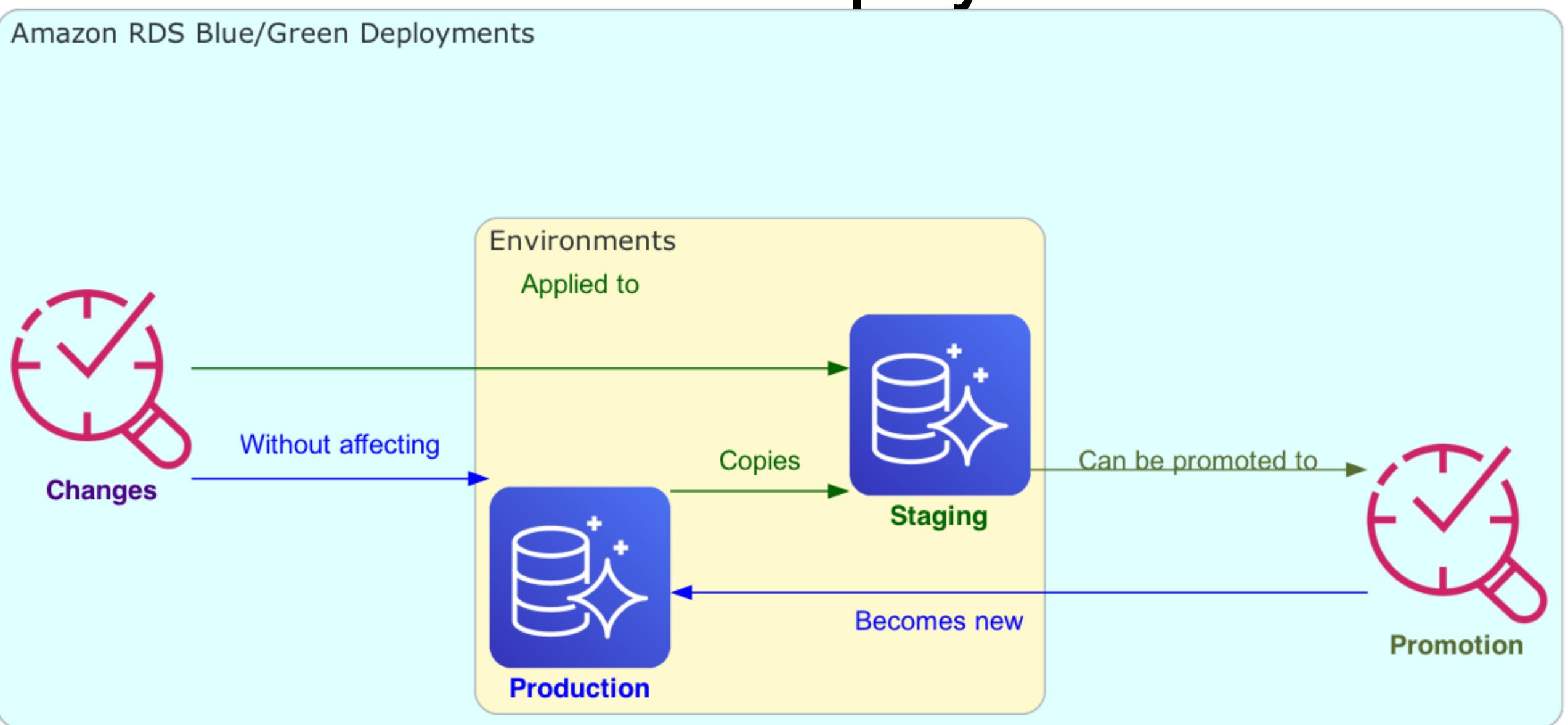
#### Aurora Features

11. Zero-ETL integrations with Amazon Redshift 1. Blue/Green Deployments 2. Aurora cluster storage configurations 12. Amazon RDS Proxy 3. Database activity streams in Aurora 13. Secrets Manager integration 14. Aurora Serverless v2 4. Exporting cluster data to Amazon S3 5. Exporting snapshot data to Amazon S3 15. RDS Data API 16. Zero-downtime patching (ZDP) 6. Aurora global databases 7. IAM database authentication in Aurora 17. Engine-native features 8. Kerberos authentication with Aurora

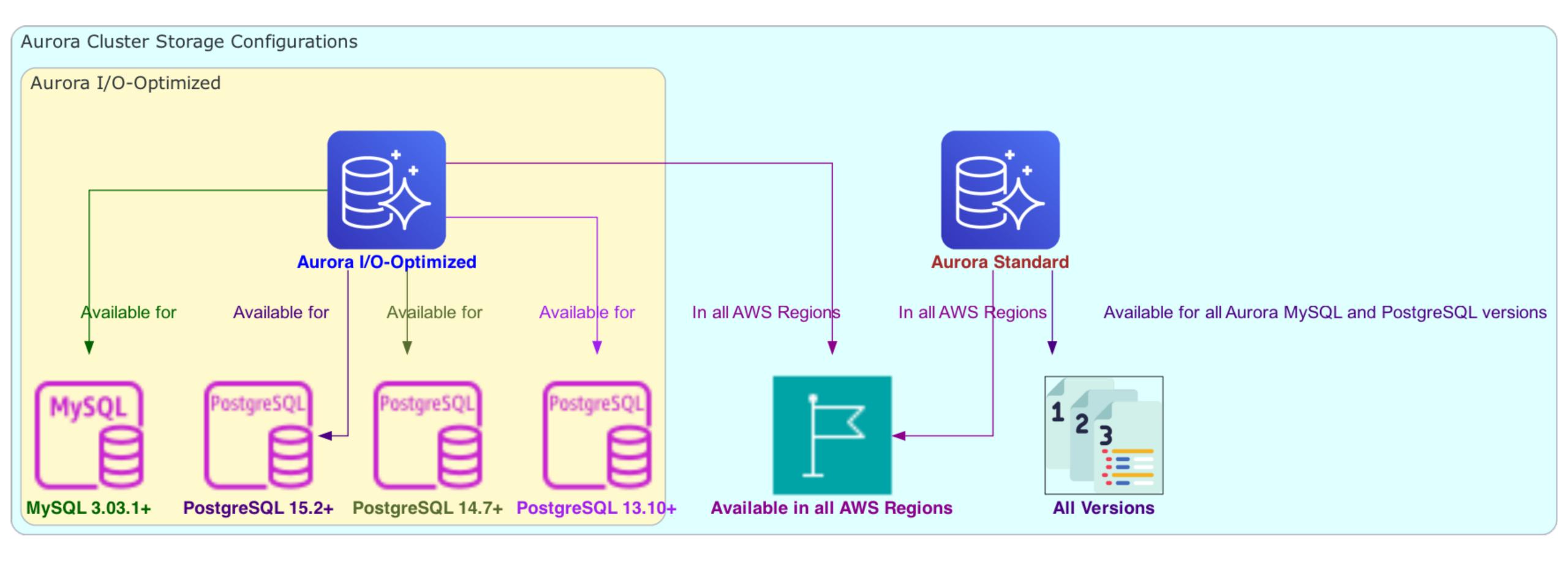
9. Aurora machine learning

10. Performance Insights with Aurora

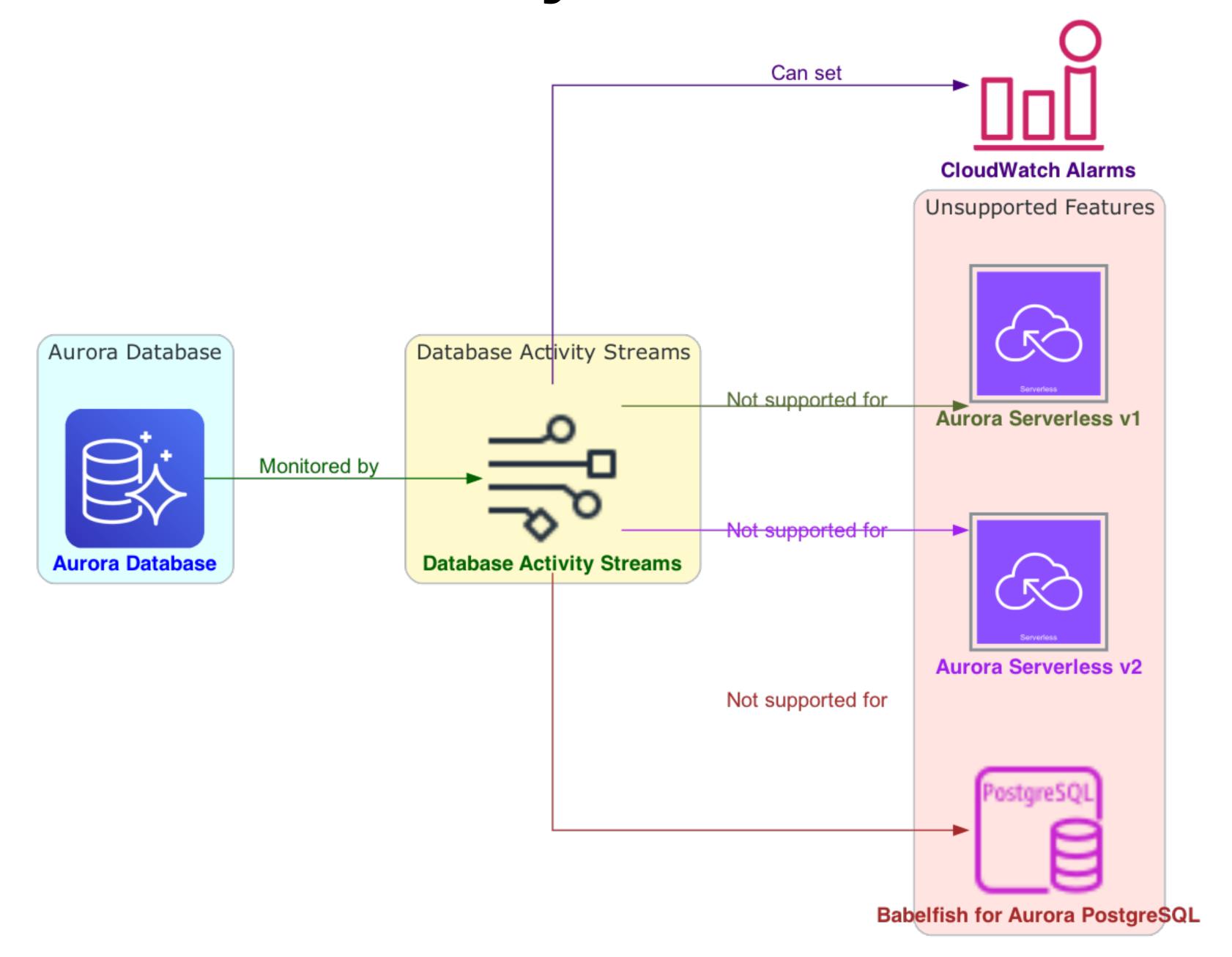
# Blue/Green Deployments



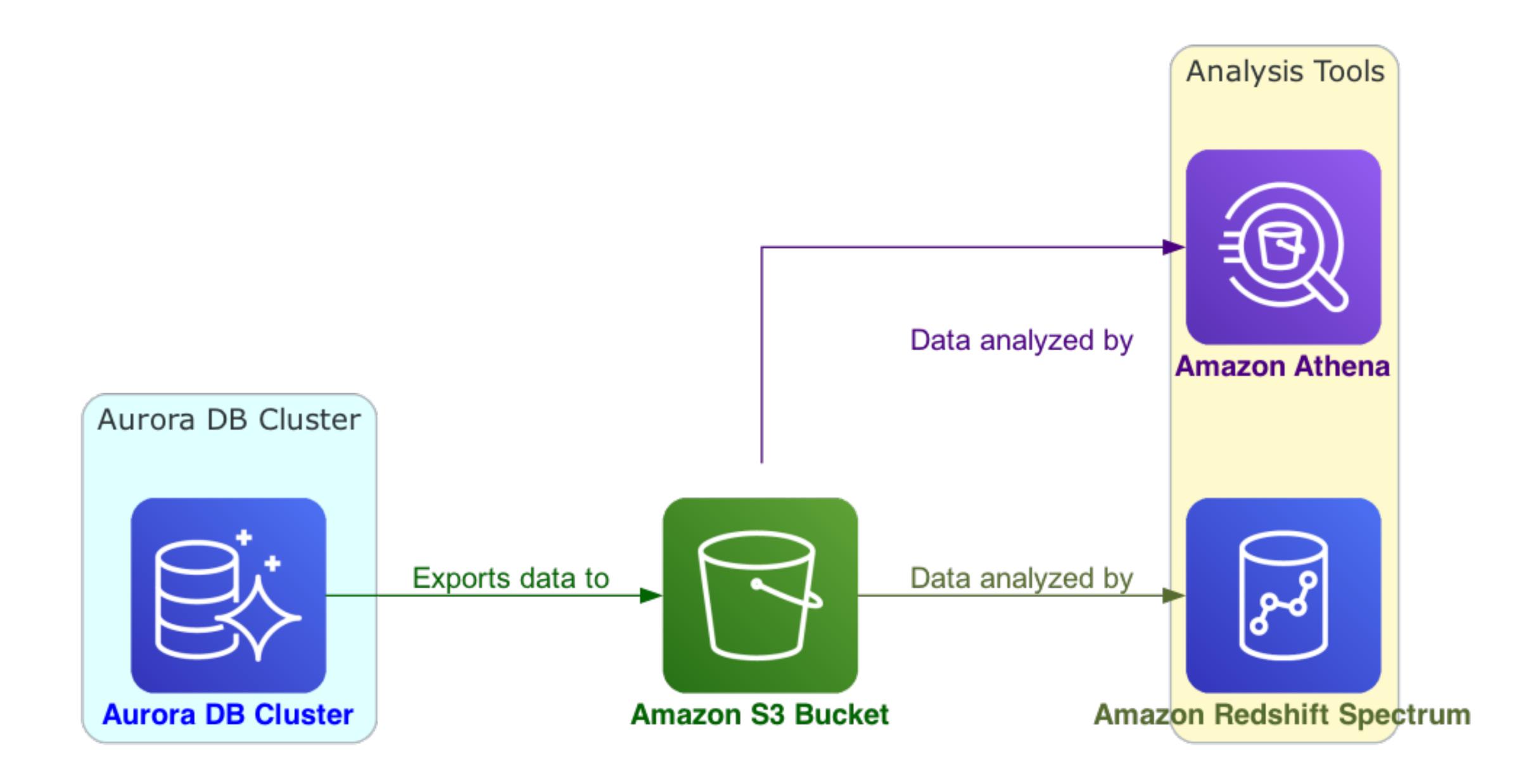
### Aurora cluster storage configurations



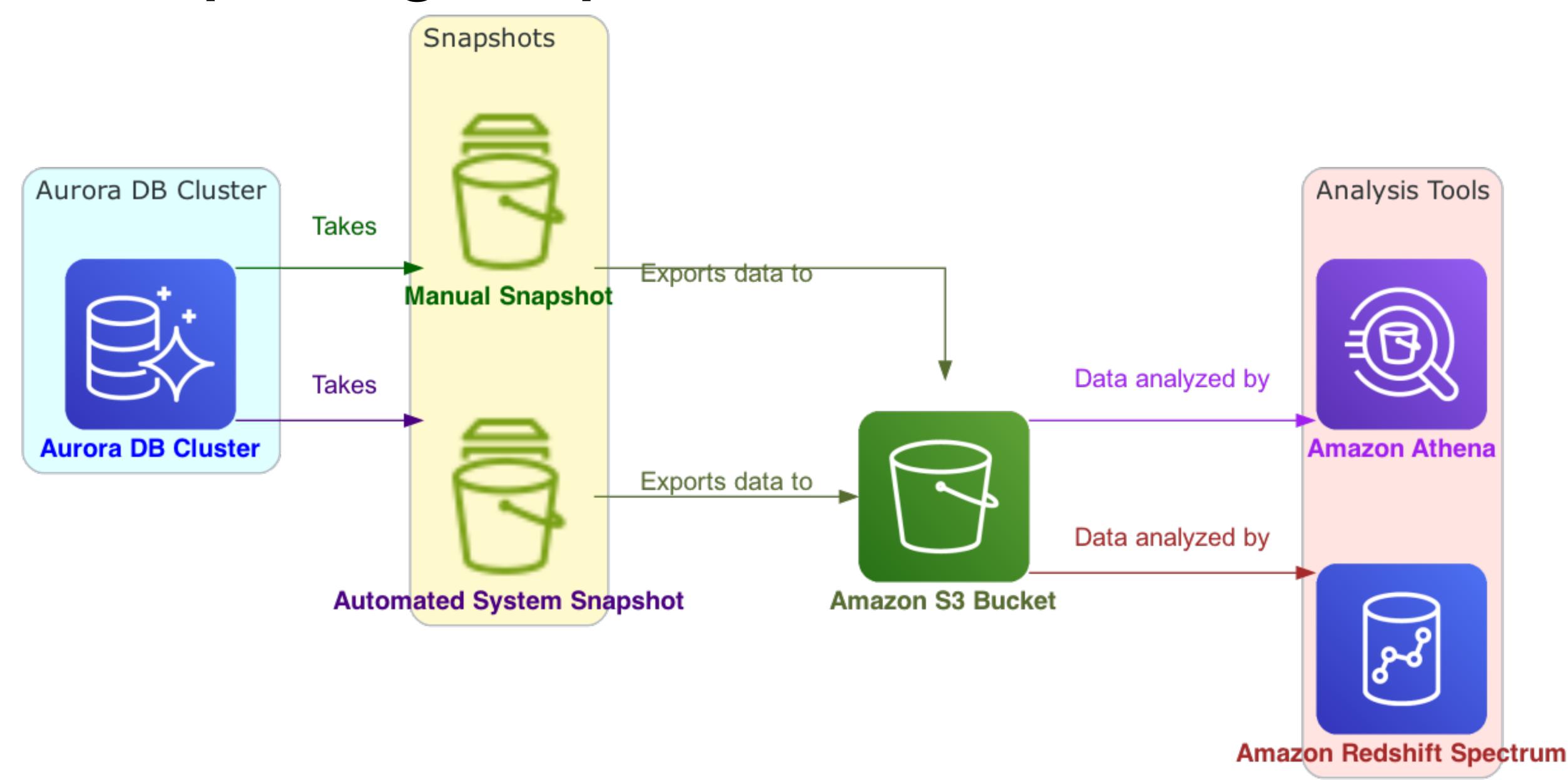
### Database activity streams in Aurora



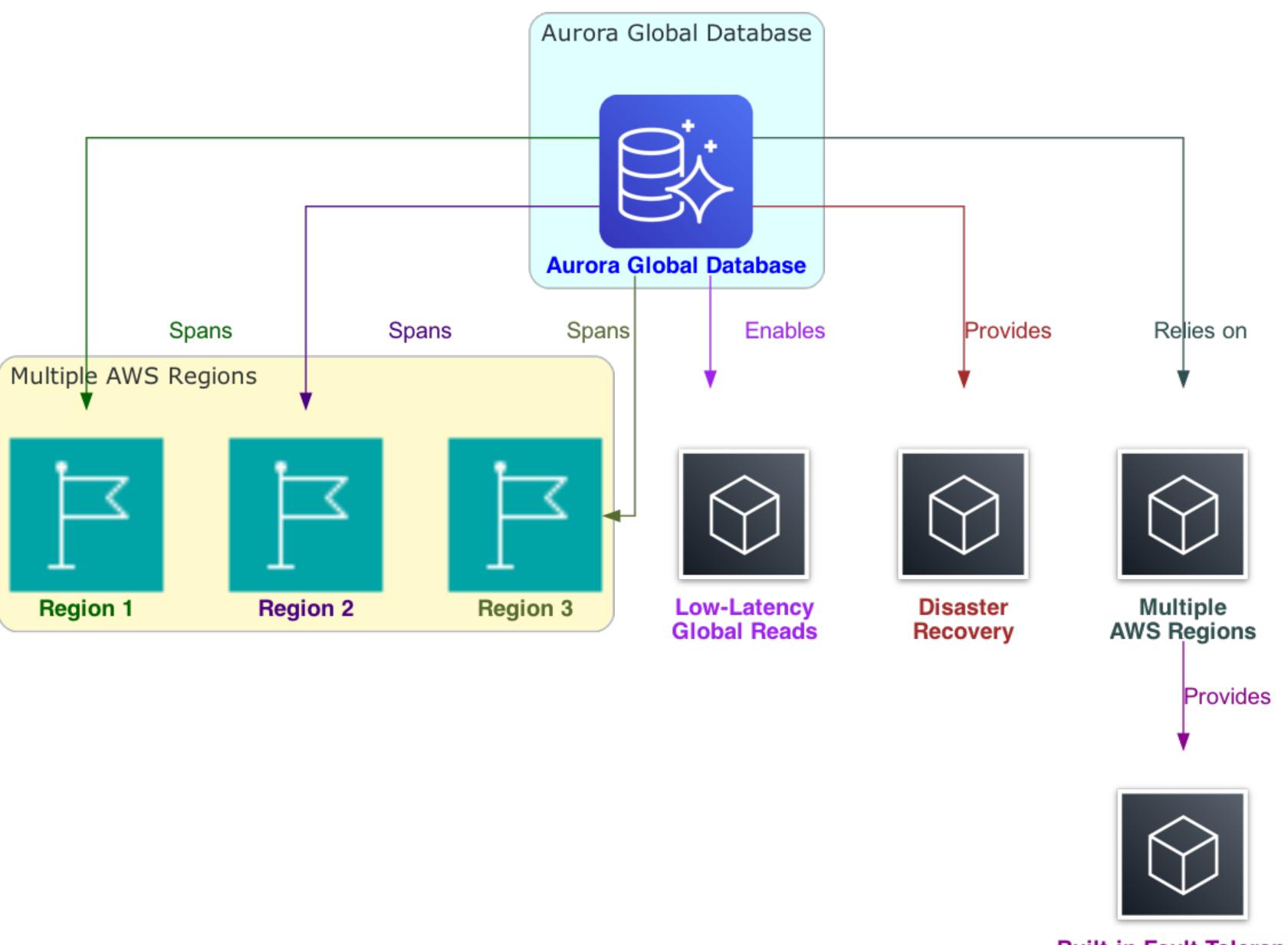
### Exporting cluster data to Amazon S3



### Exporting snapshot data to Amazon S3

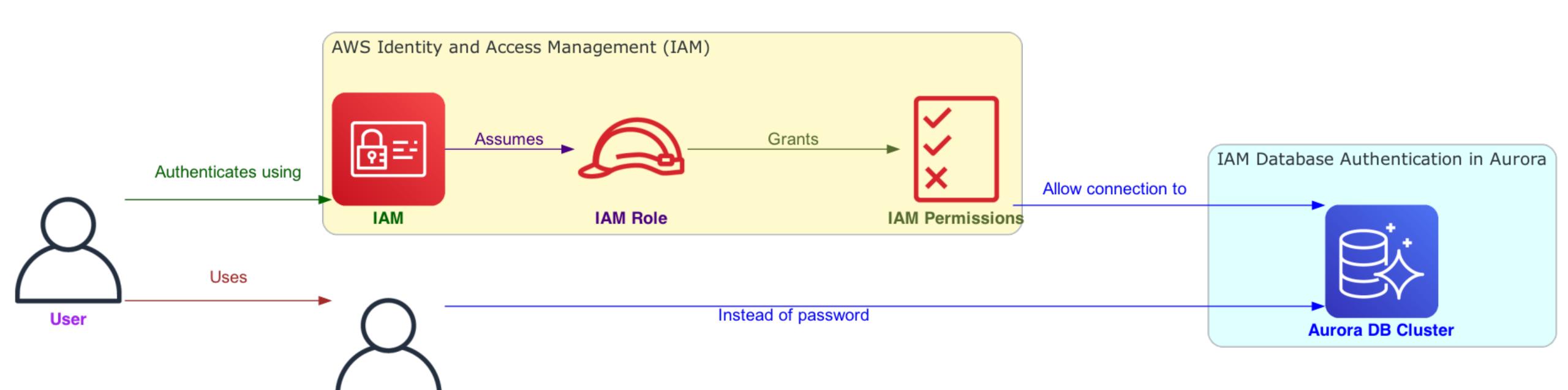


# Aurora global databases



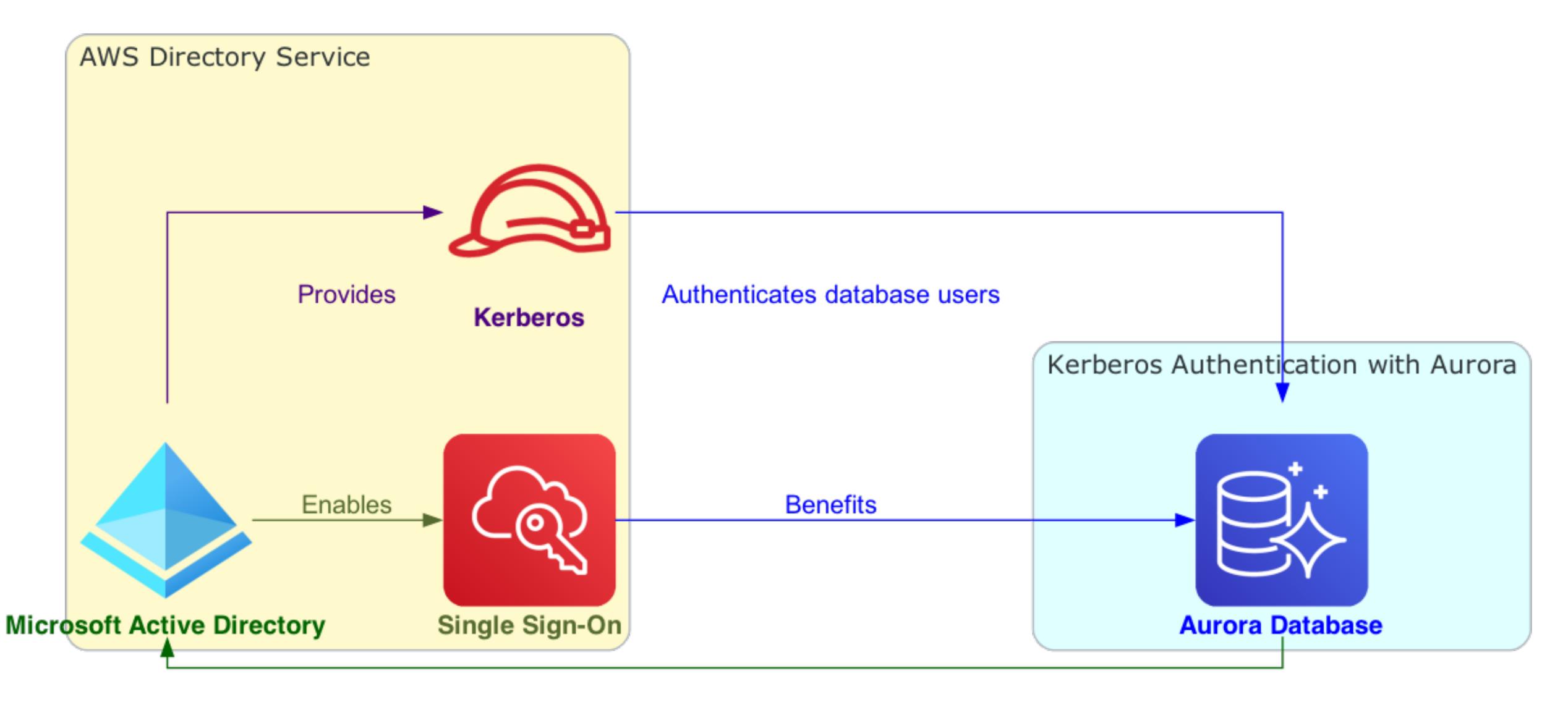
**Built-in Fault Tolerance** 

#### IAM database authentication in Aurora

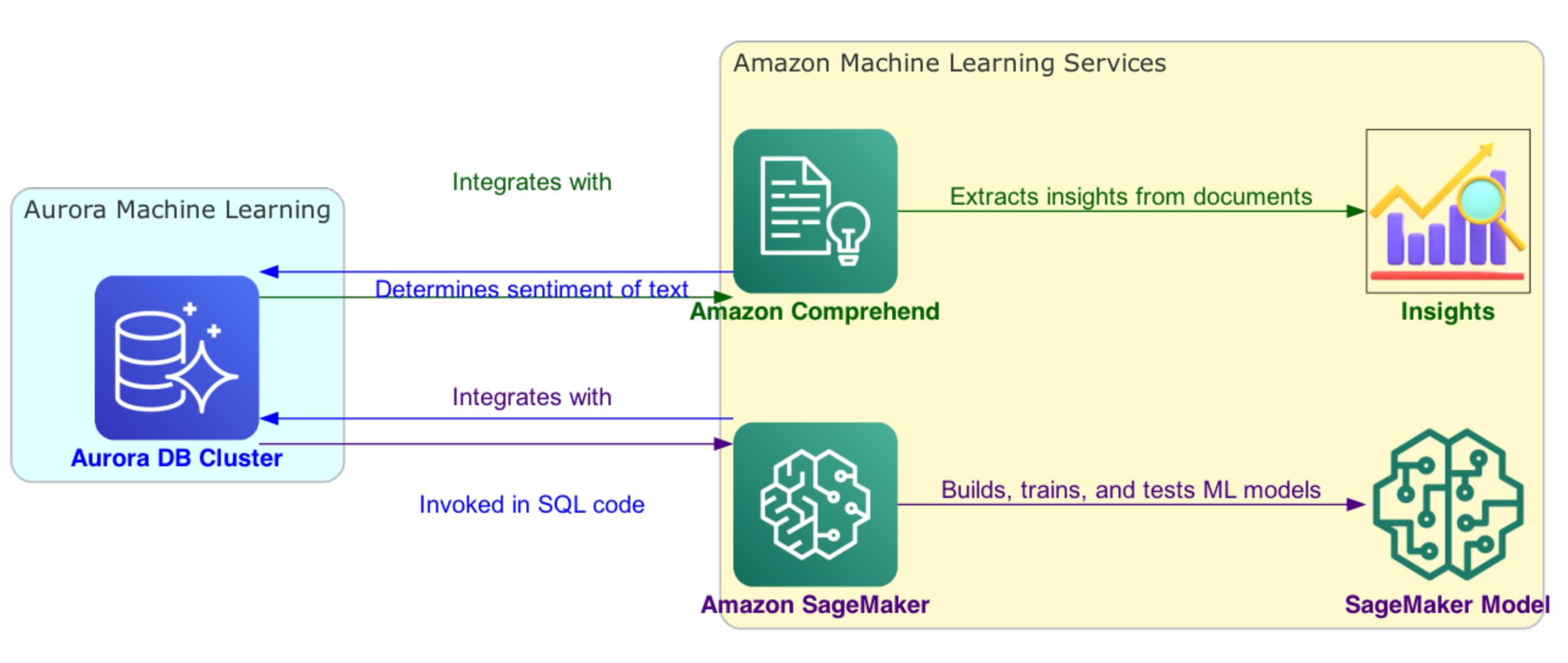


**Authentication Token** 

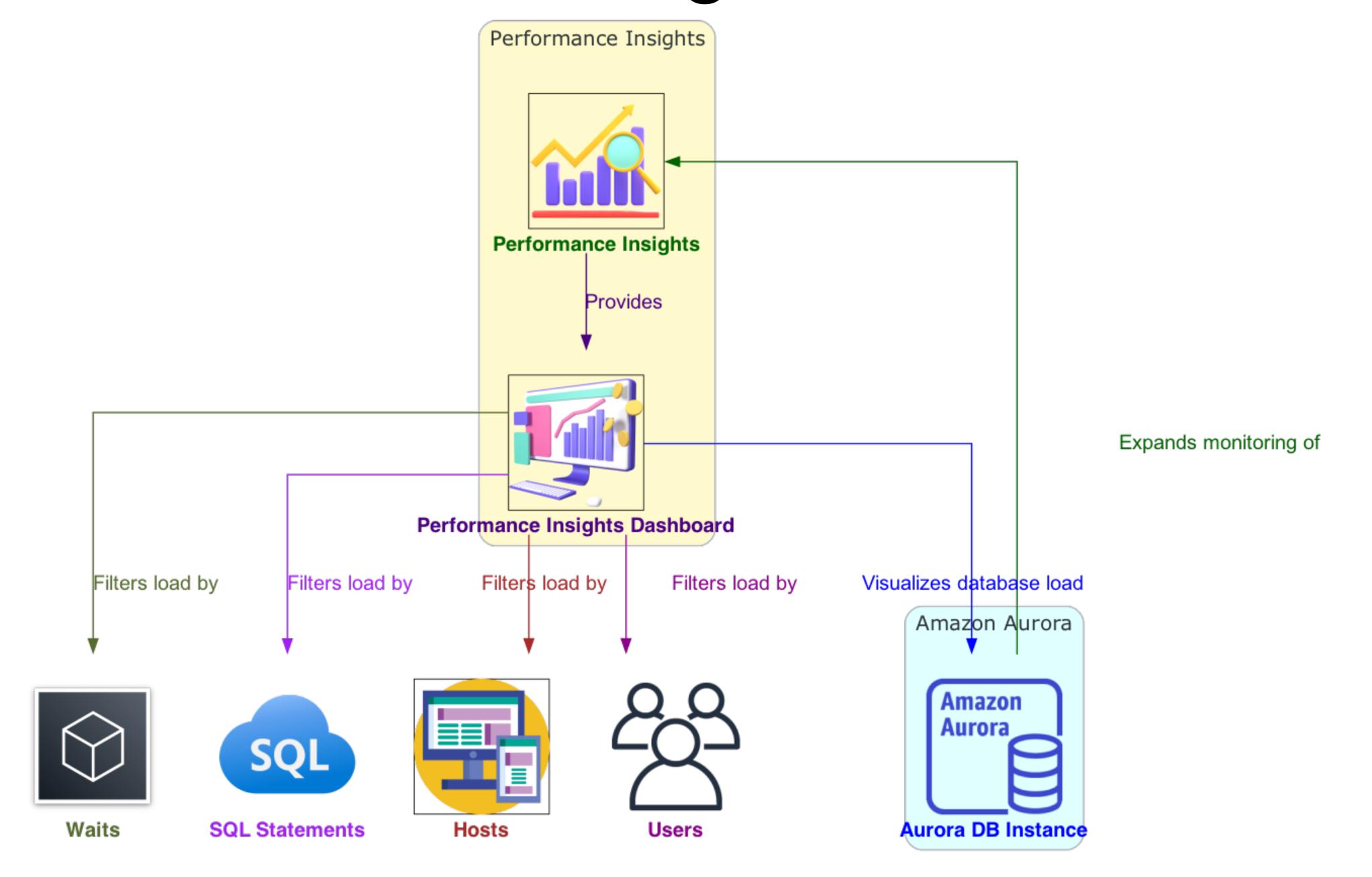
#### Kerberos authentication with Aurora



# Aurora machine learning

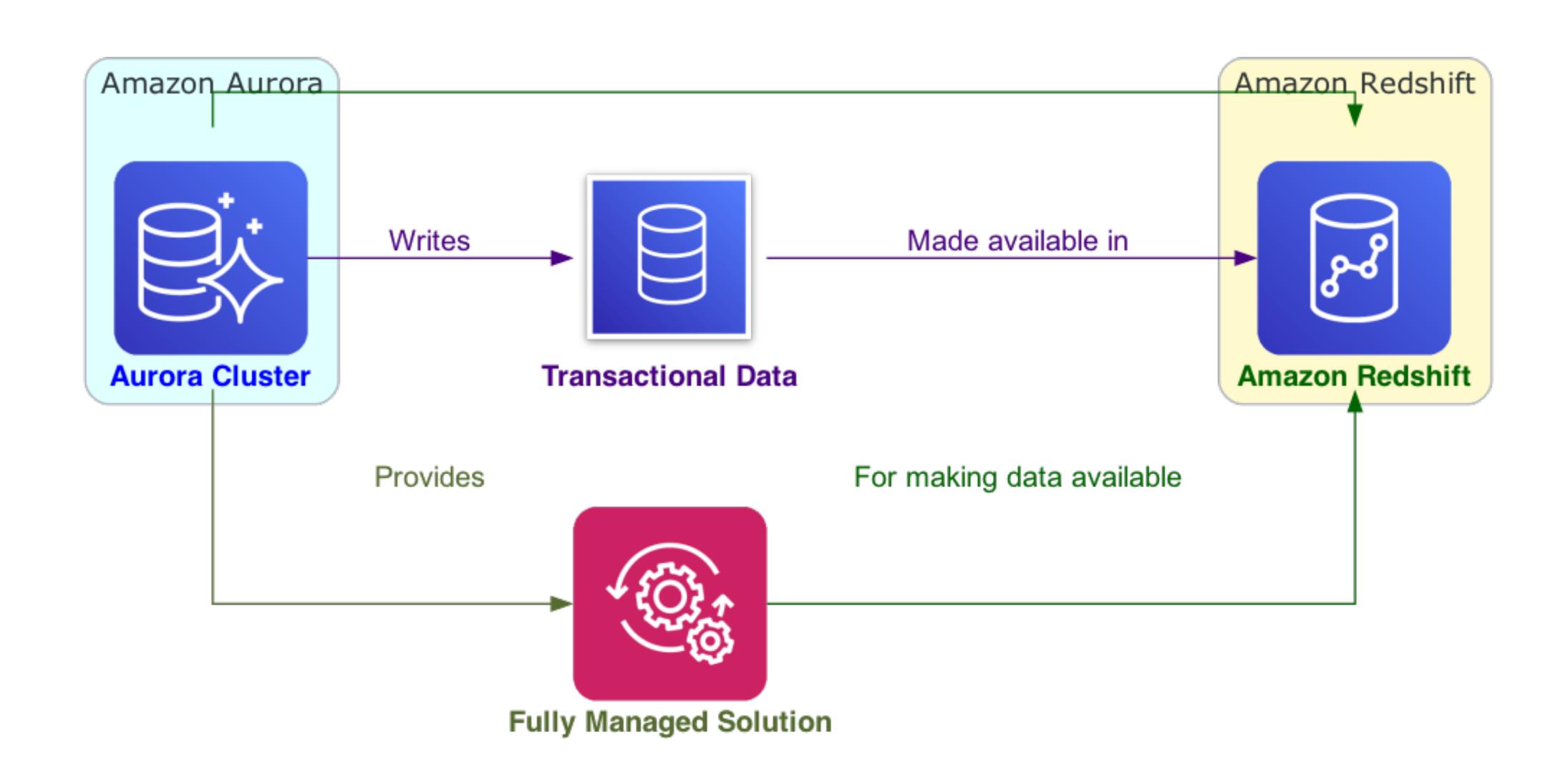


### Performance Insights with Aurora

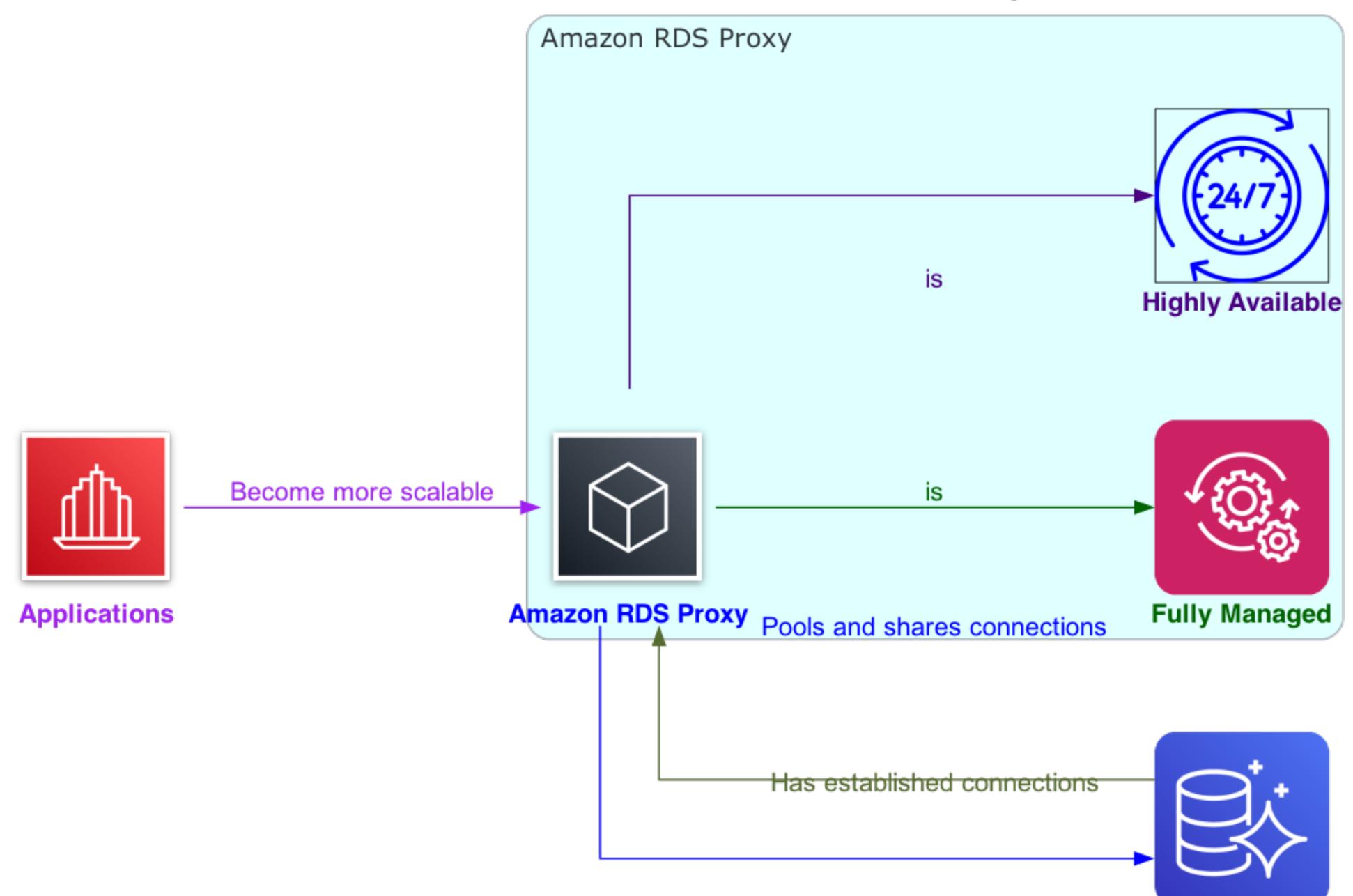


### Zero-ETL integrations with Amazon Redshift

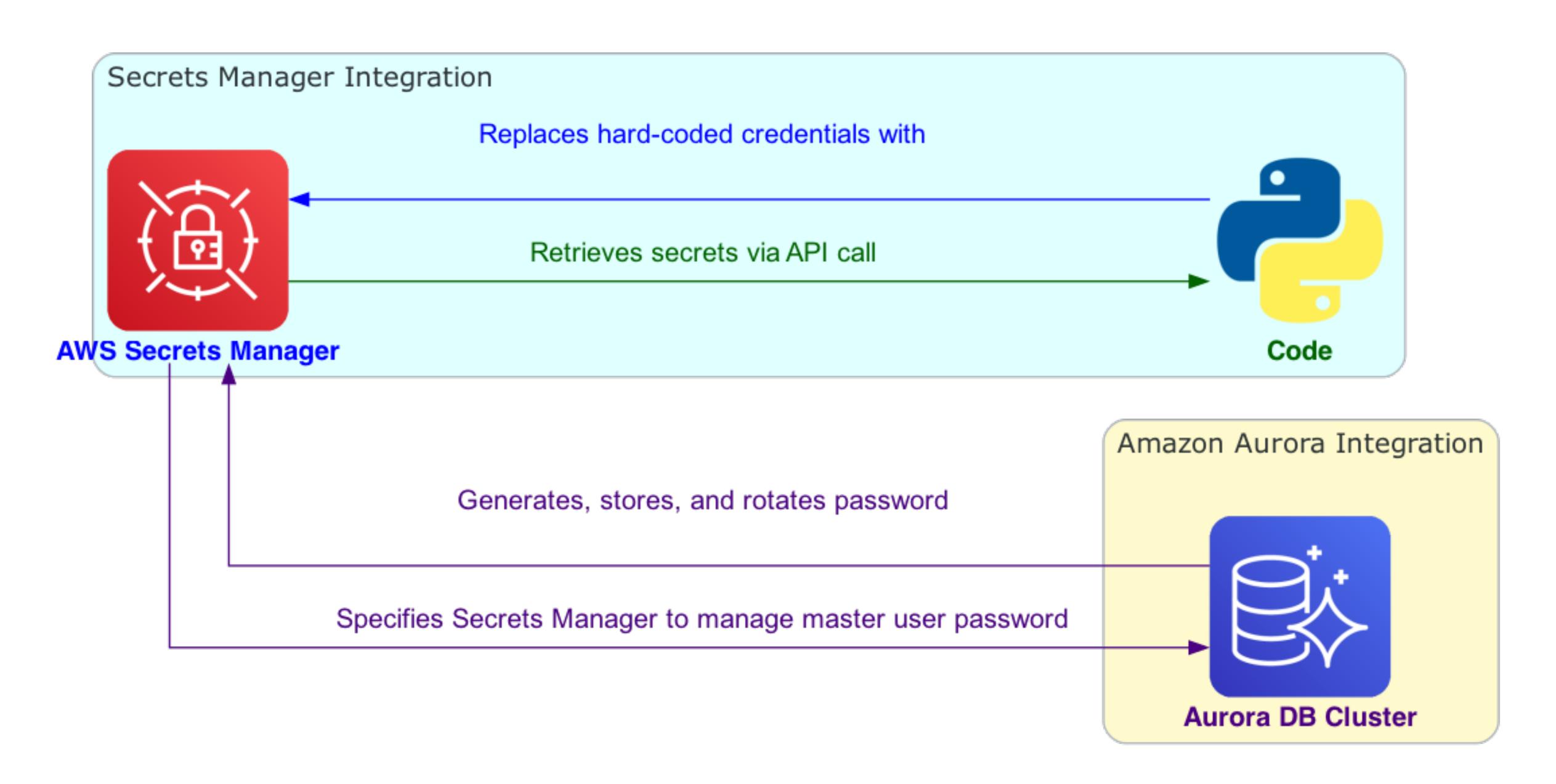
Zero-ETL Integration



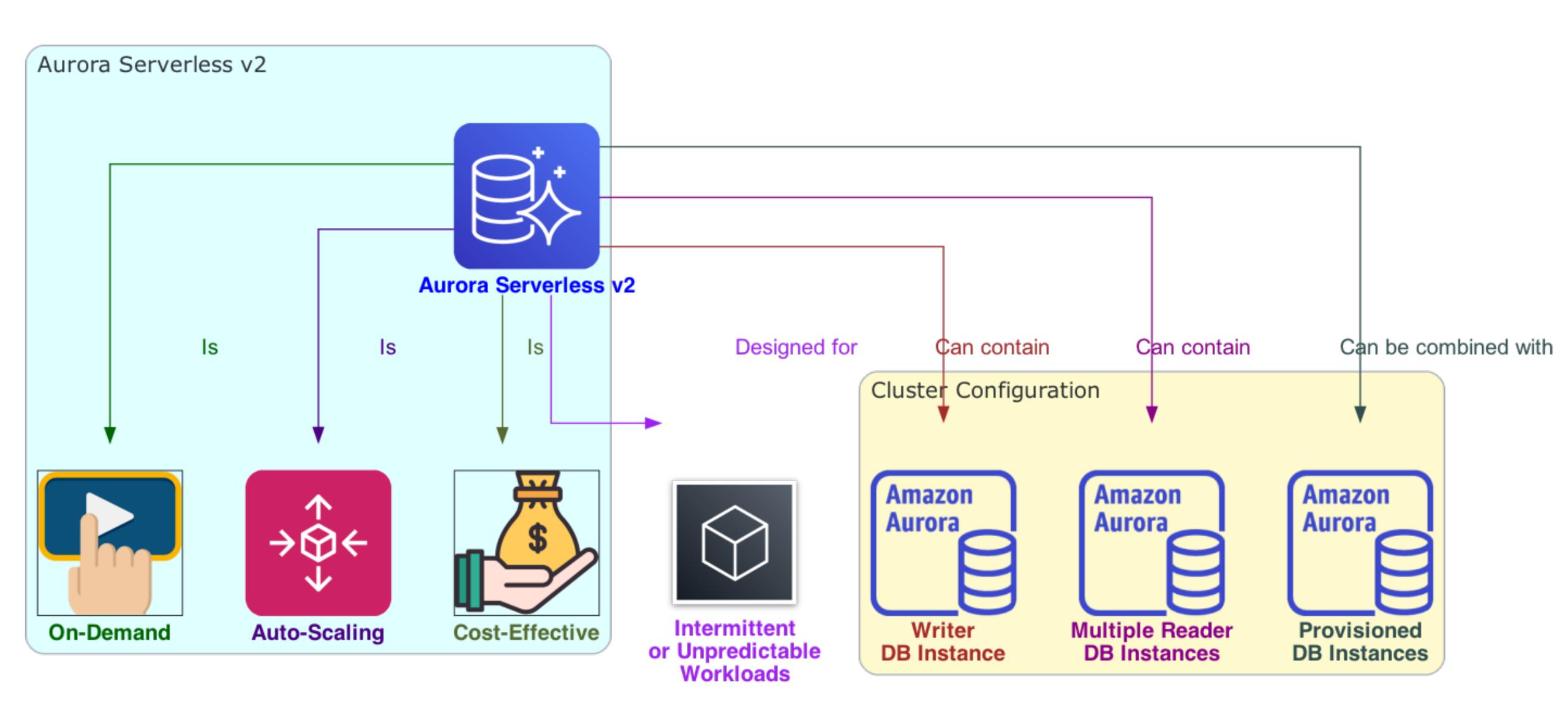
### Amazon RDS Proxy



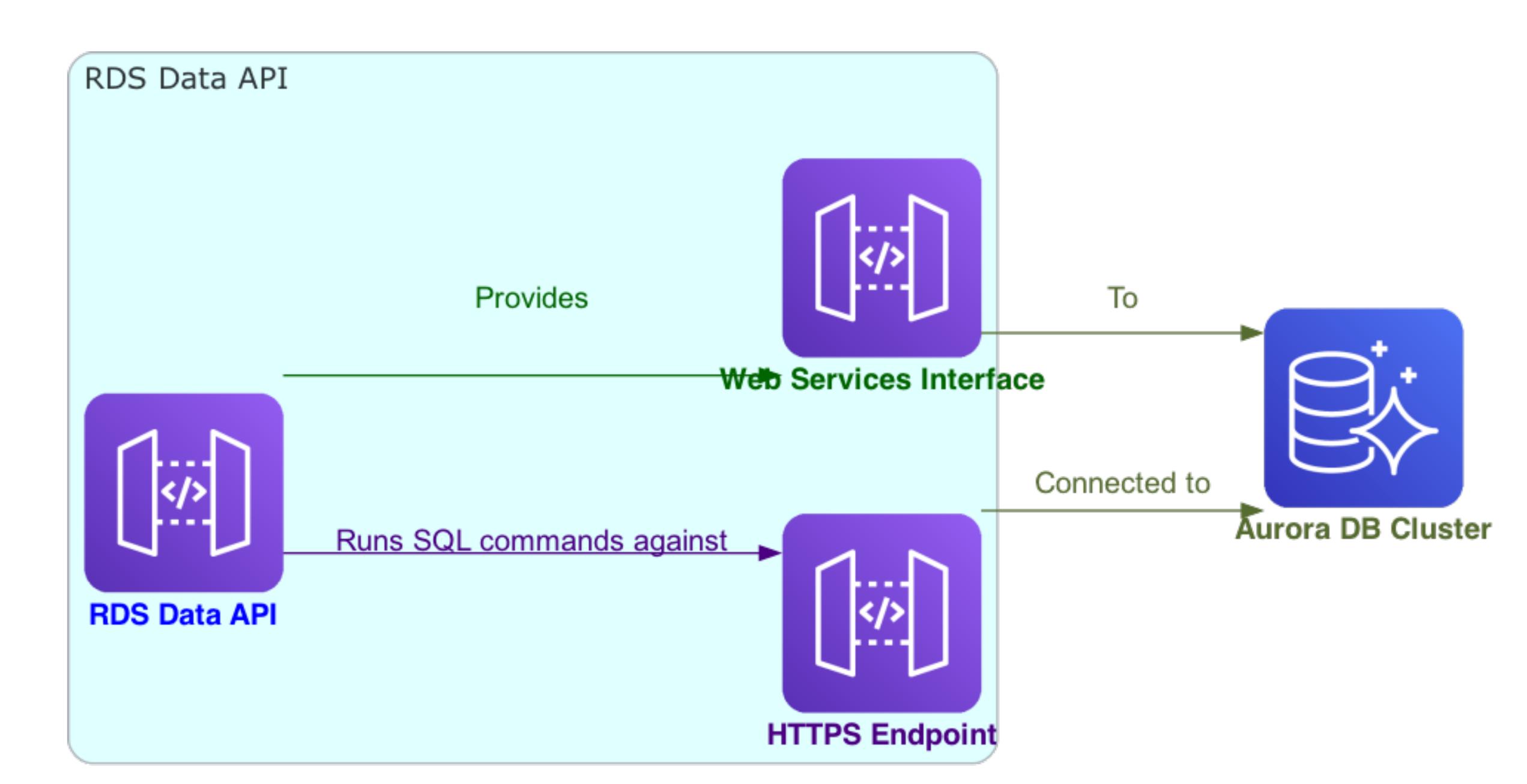
# Secrets Manager integration



#### Aurora Serverless v2



#### RDS Data API



# Zero-downtime patching (ZDP)

