

The background features a dark navy blue field with abstract, overlapping shapes in vibrant magenta and deep red. Two thin, light blue lines intersect diagonally across the upper right portion of the image. The text is positioned on the left side.

AWS re:Invent

DECEMBER 2 – 6, 2024 | LAS VEGAS, NV

DAT304

Amazon Aurora HA and DR design patterns for global resilience

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Sr. Principal Technologist
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Resilience

Ability to:

- **Recover** from dependency disruptions
- **Acquire and release** resources
- **Mitigate** transient issues

Resilience

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Availability



**Disaster
recovery**

Availability

Proportion of time available for use **during a time period**

- For example, 99.99% per year



Disaster recovery (DR)

Recovery time objective (RTO)

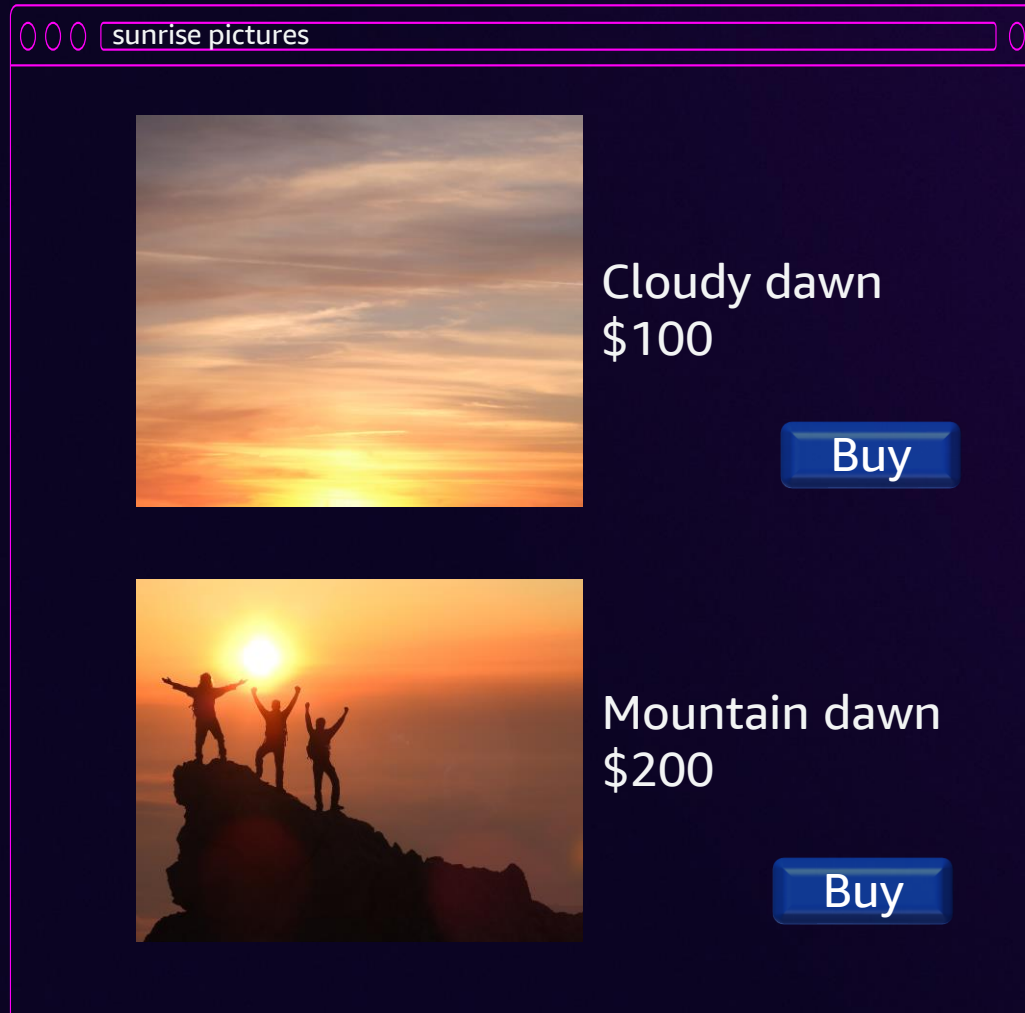
- Maximum length of **one impact**
- “Downtime”



Recovery point objective (RPO)

- **Maximum** amount of data loss (as time) after an outage

Example



Single AZ



Single AZ



Single AZ



Single AZ



Aurora storage



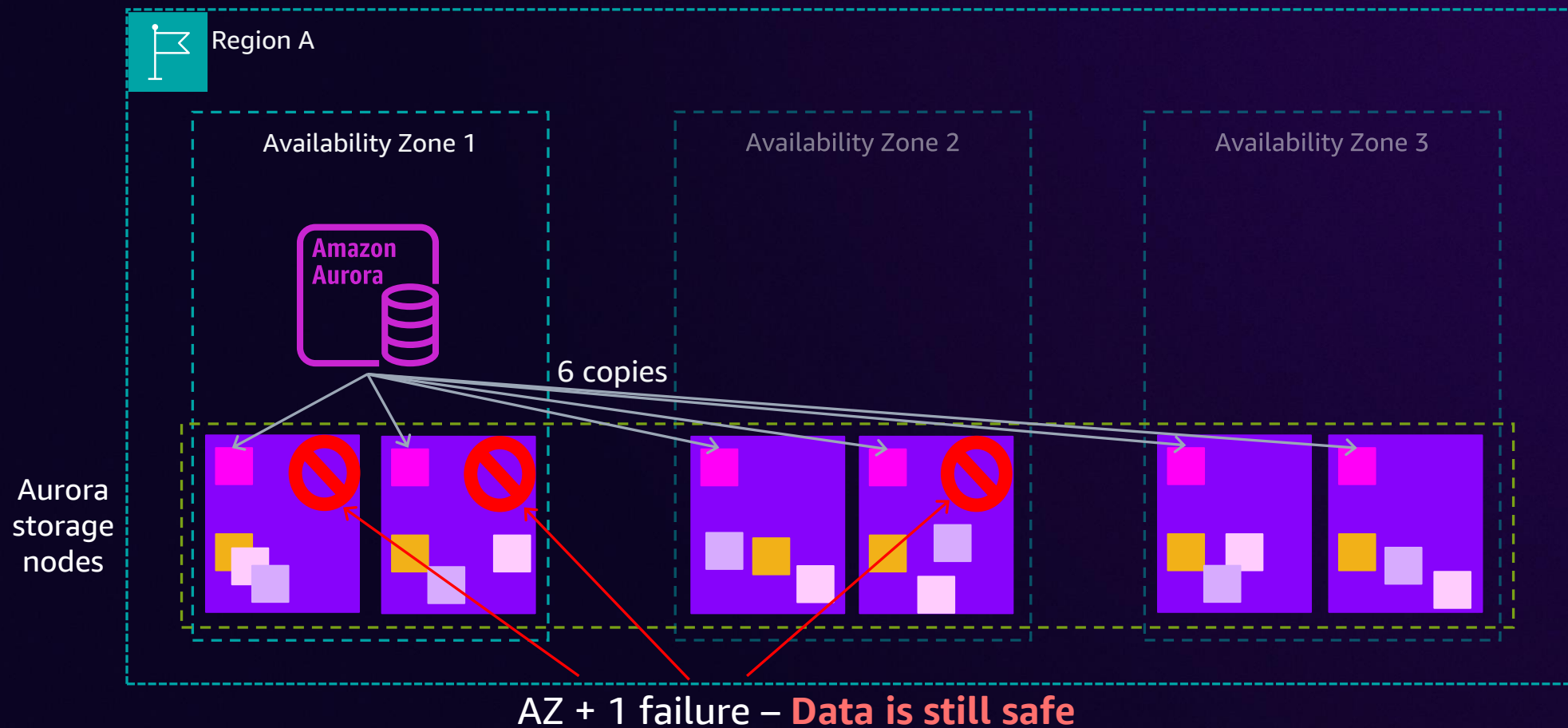
Aurora storage



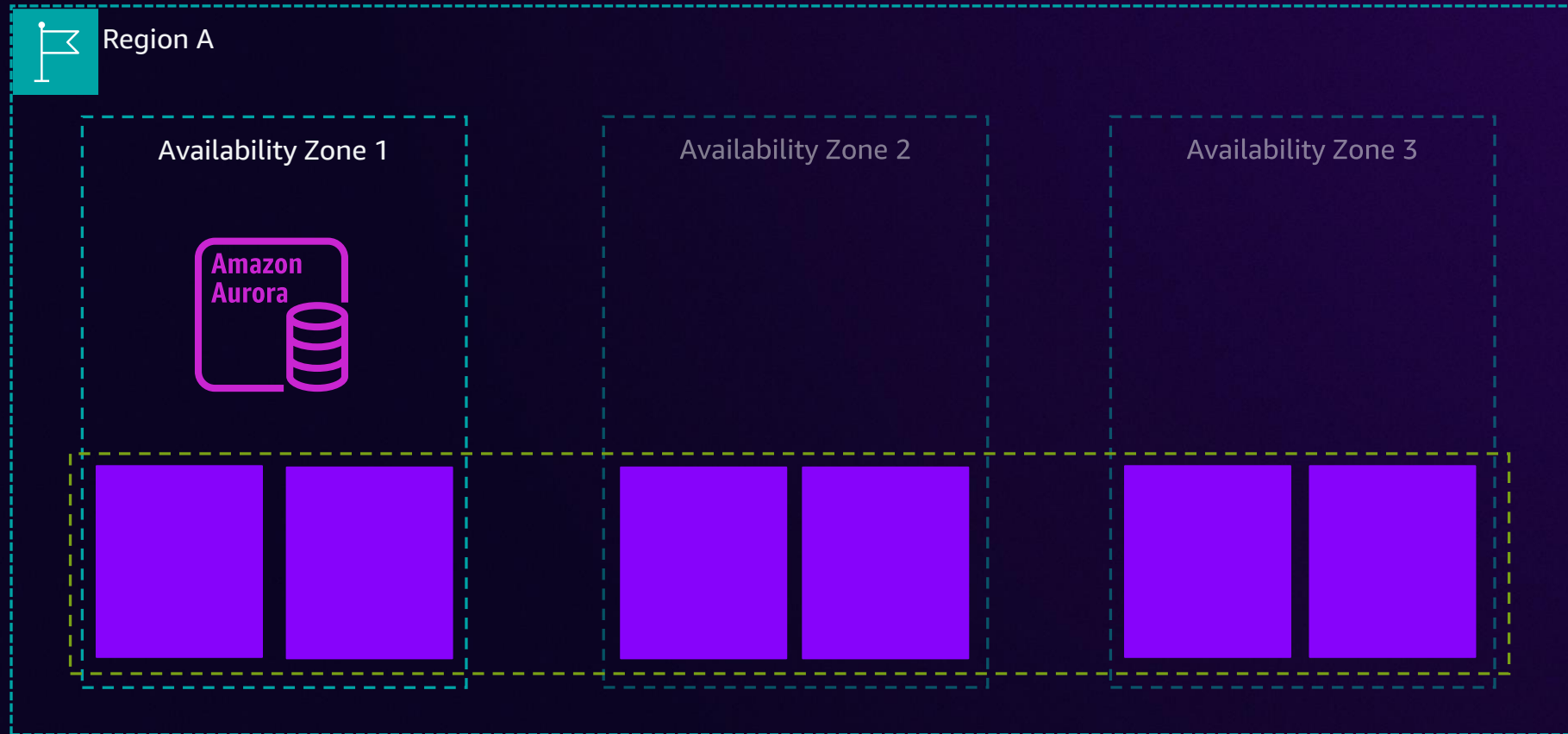
Aurora storage



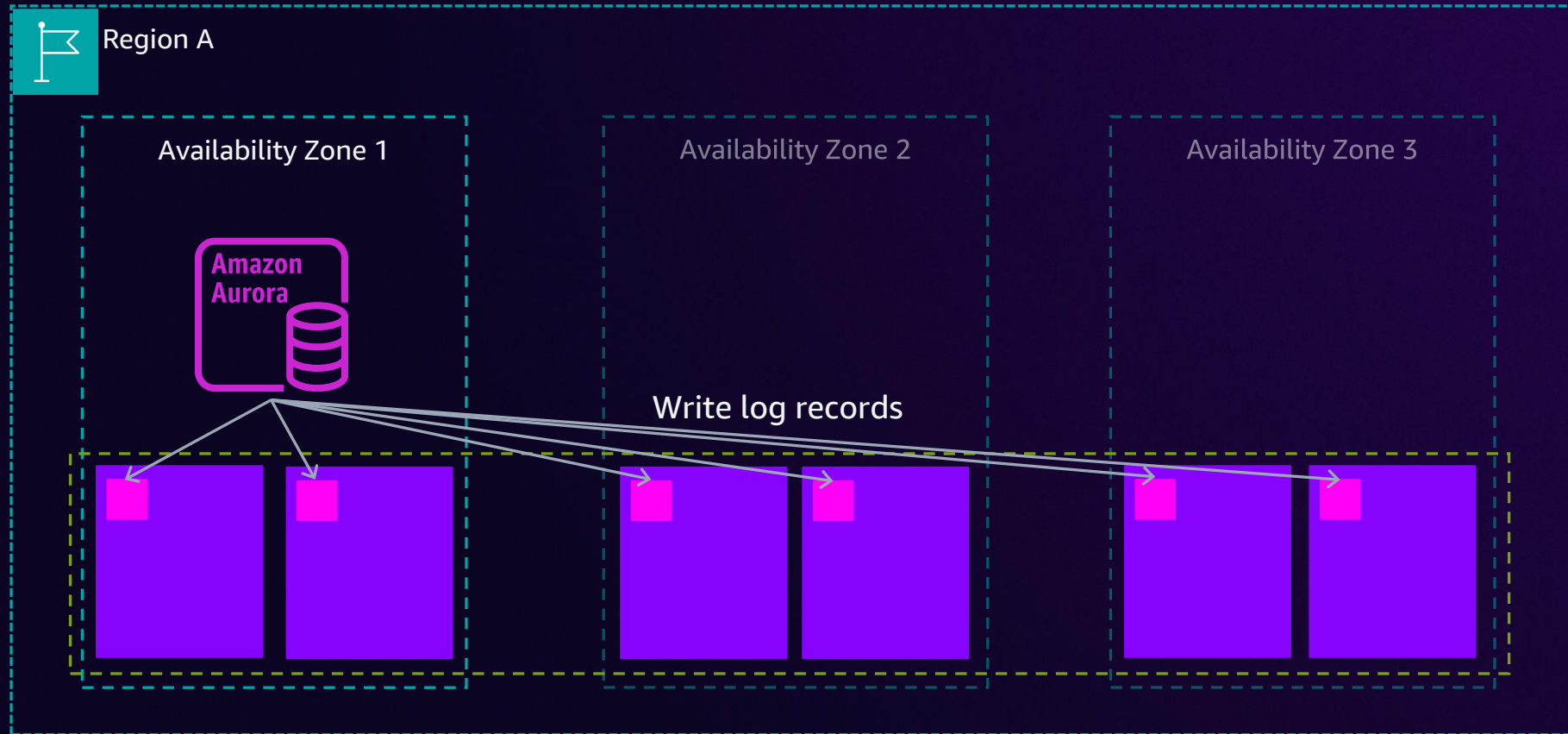
Aurora storage



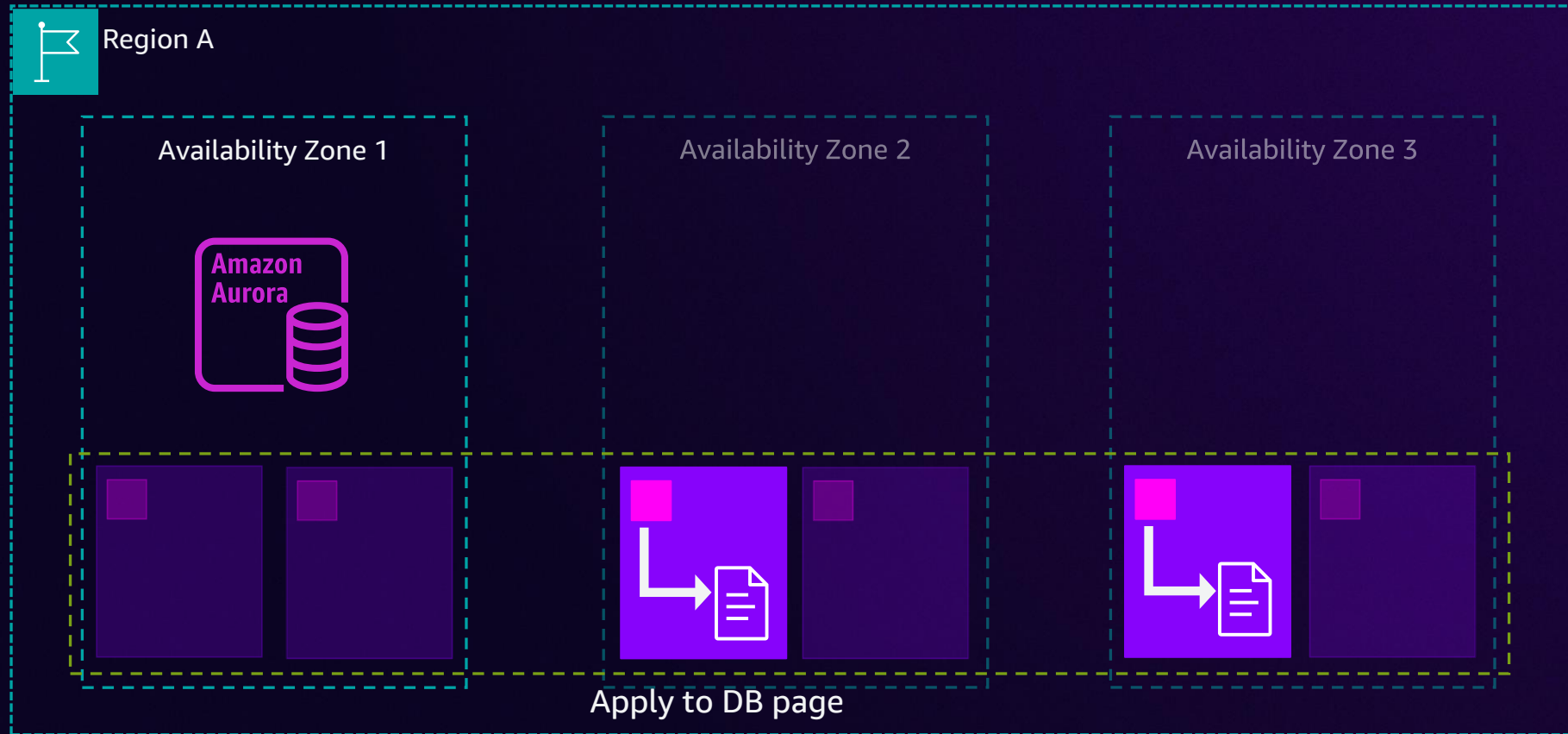
Aurora storage deep dive



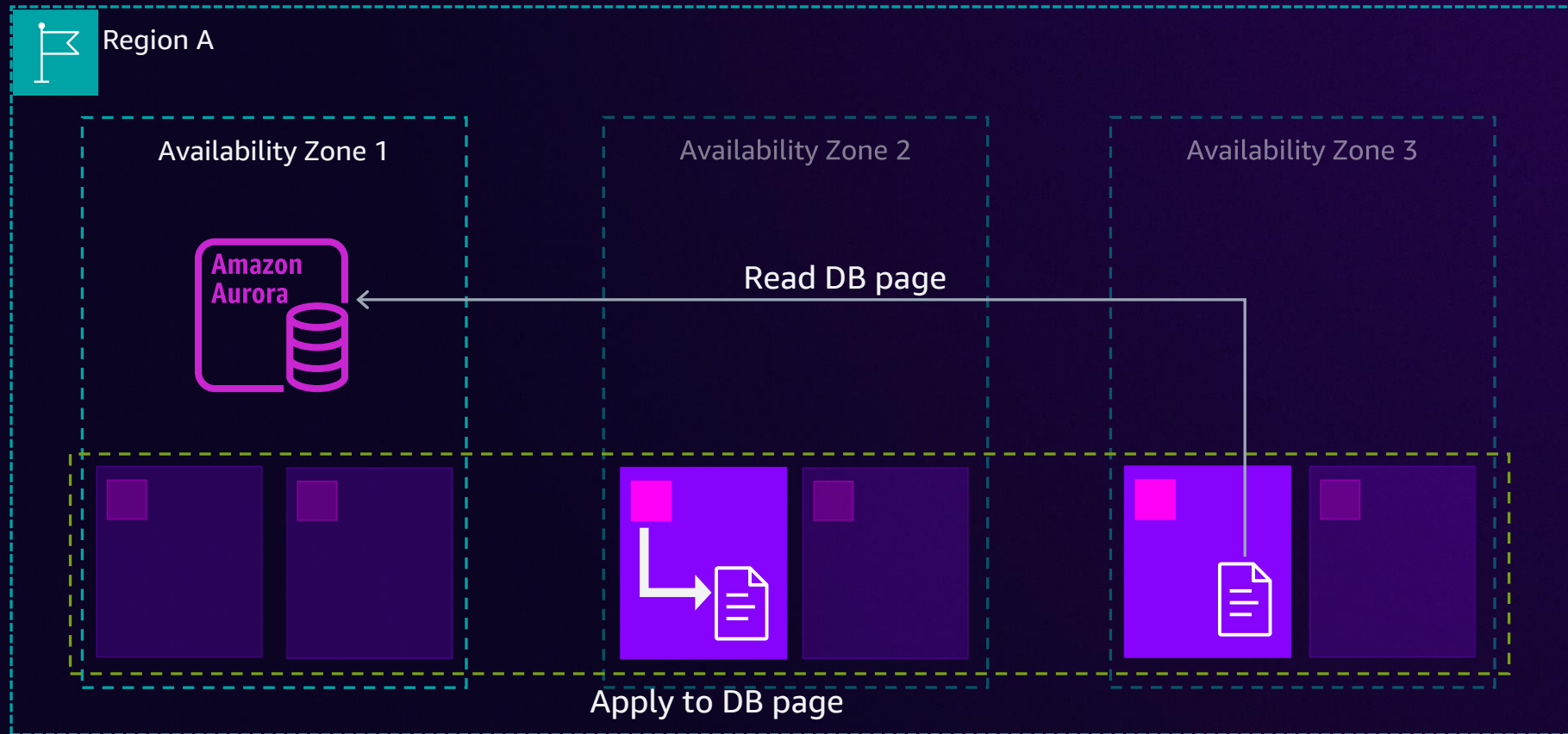
Aurora storage deep dive



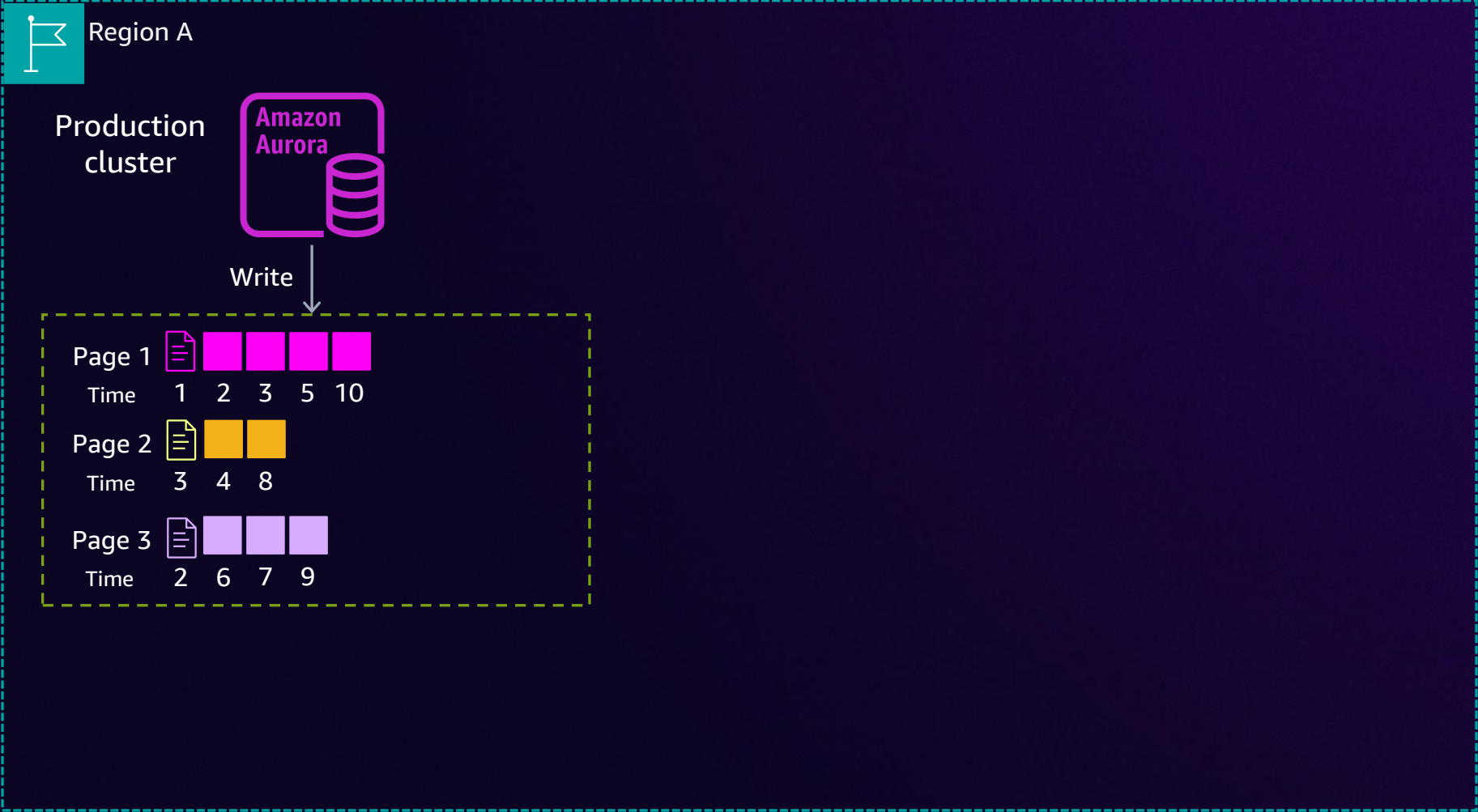
Aurora storage deep dive



Aurora storage deep dive



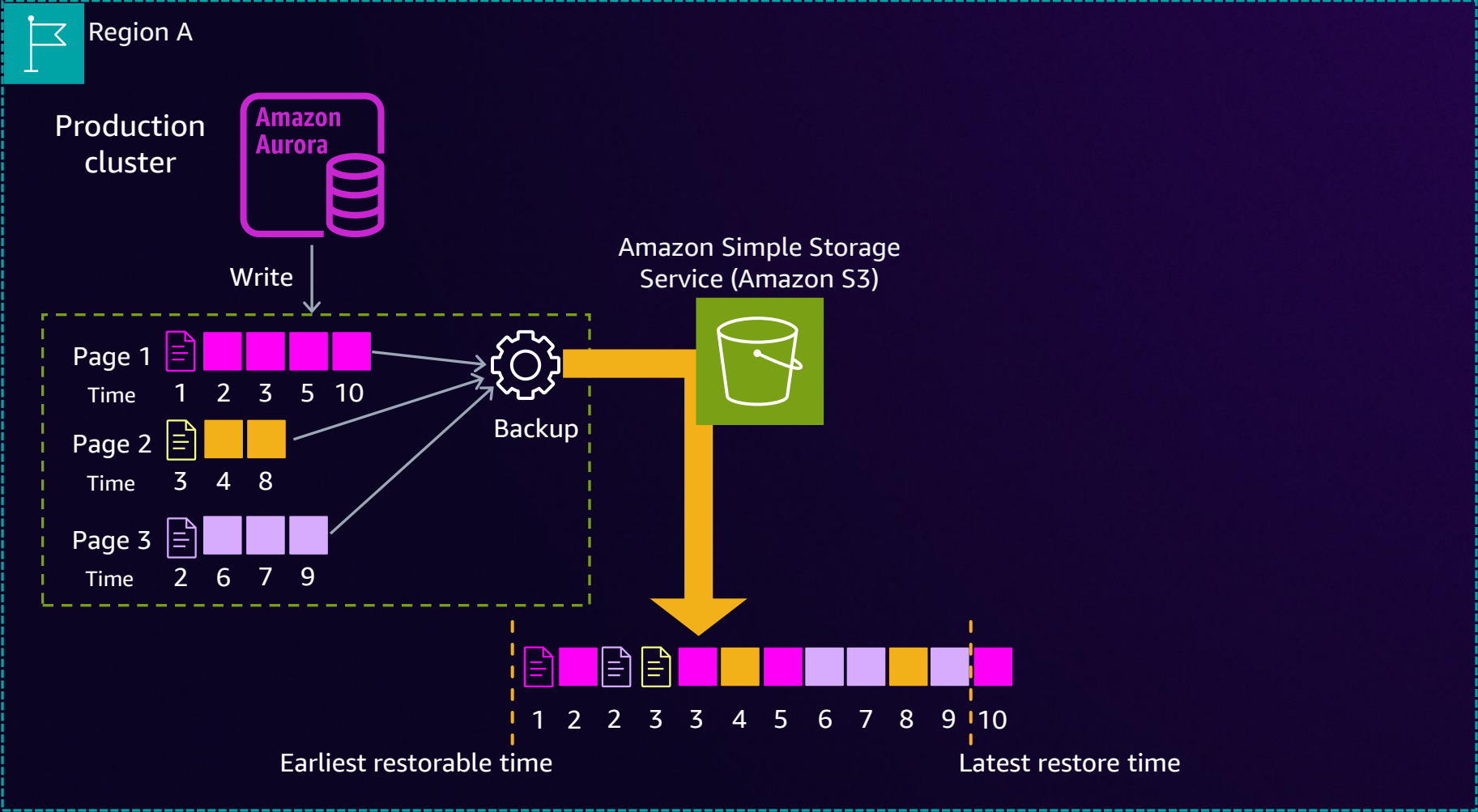
Backup and restore



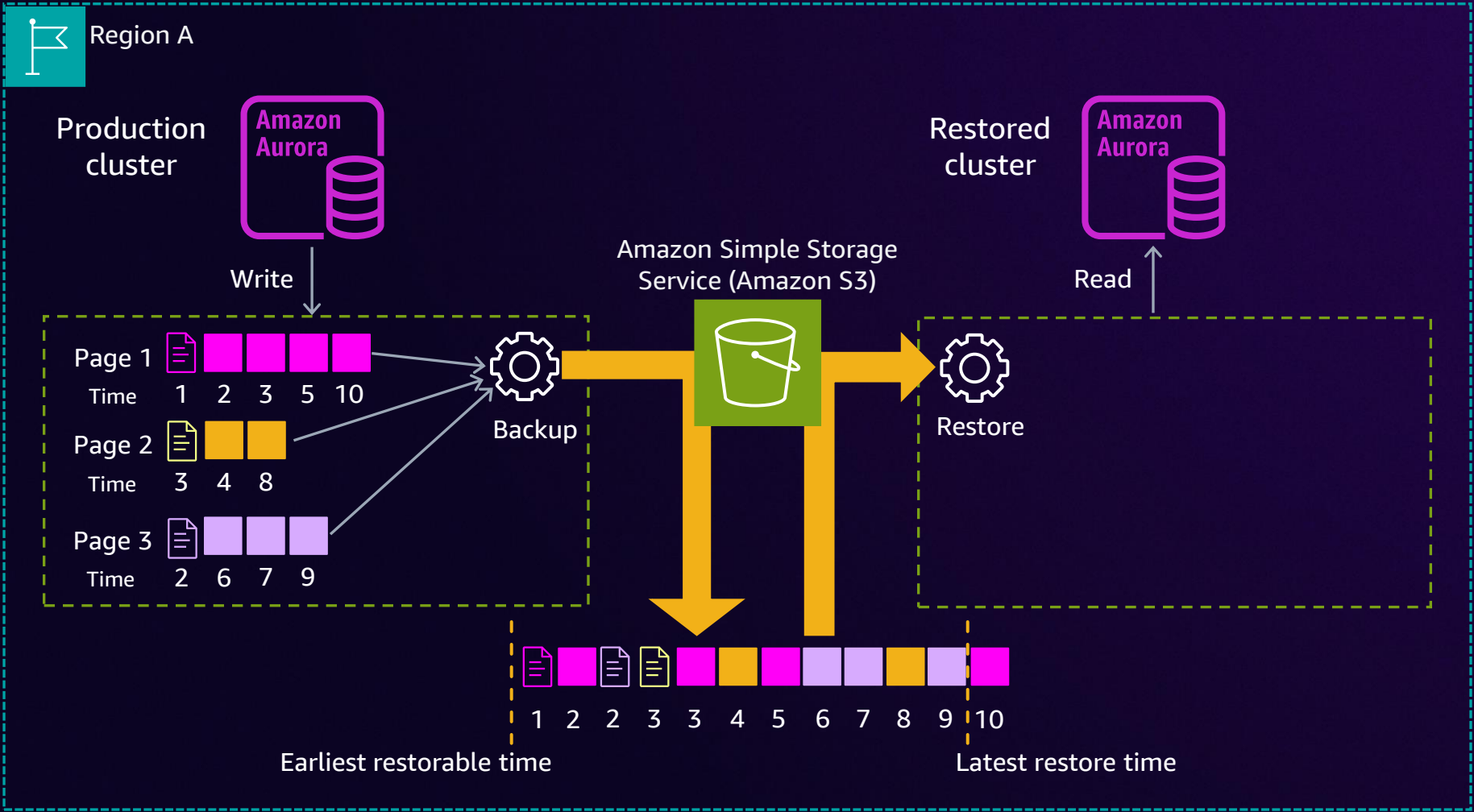
Backup and restore



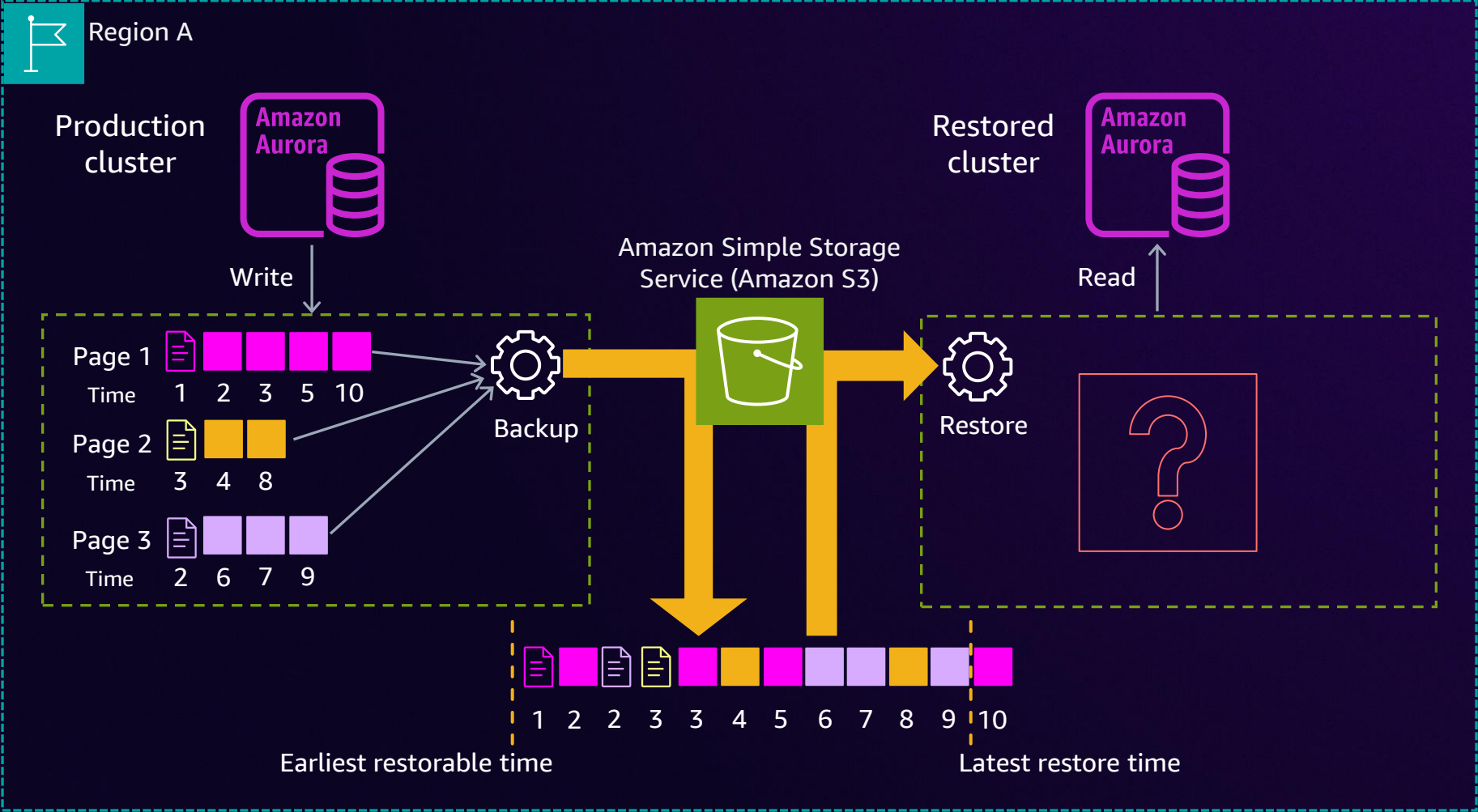
Backup and restore



Backup and restore



Backup and restore



Restore's inner workings



Amazon RDS console

Backup
Automated backups
Enabled (7 Days)

Earliest restorable time
October 09, 2024, 14:41 (UTC+10:30)

Latest restore time
October 09, 2024, 14:47 (UTC+10:30)



Restore's inner workings



Amazon RDS console

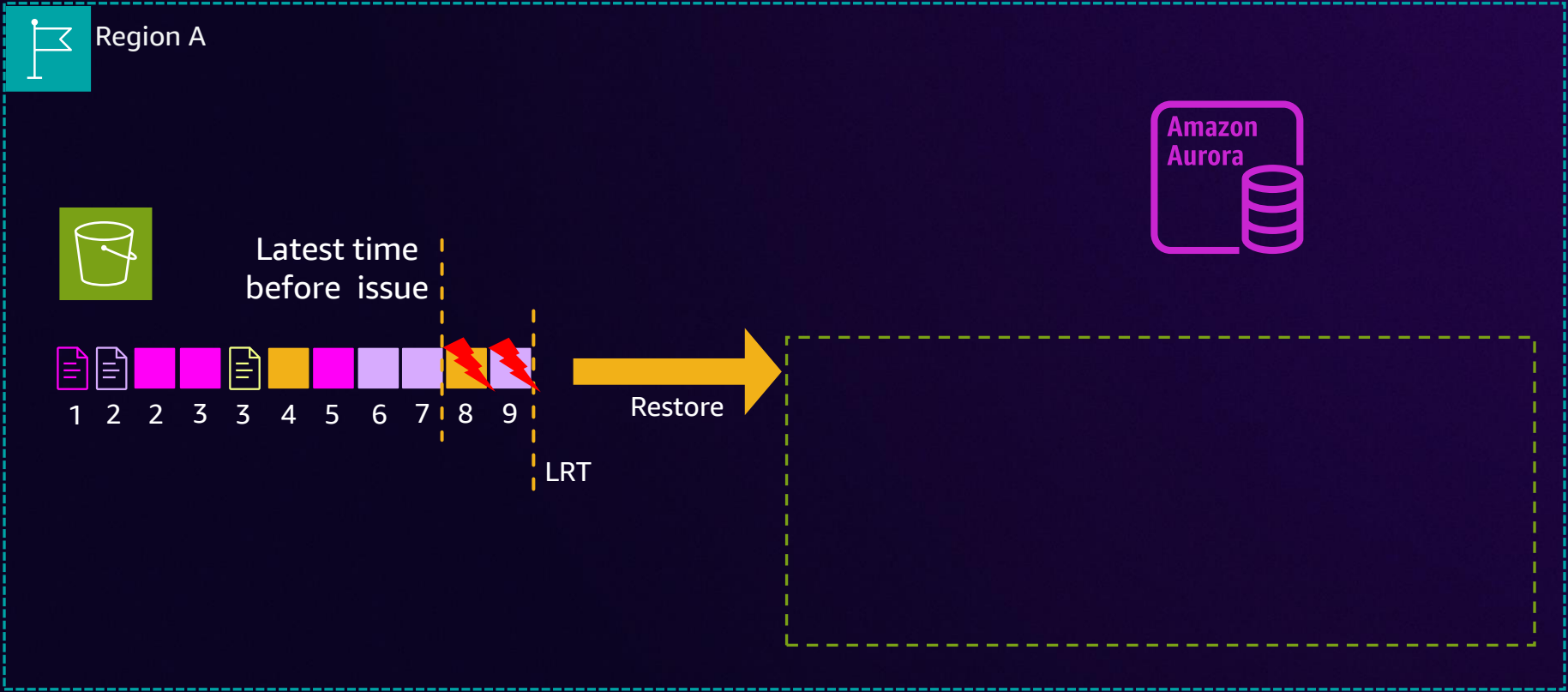
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Restore's inner workings



Amazon RDS console

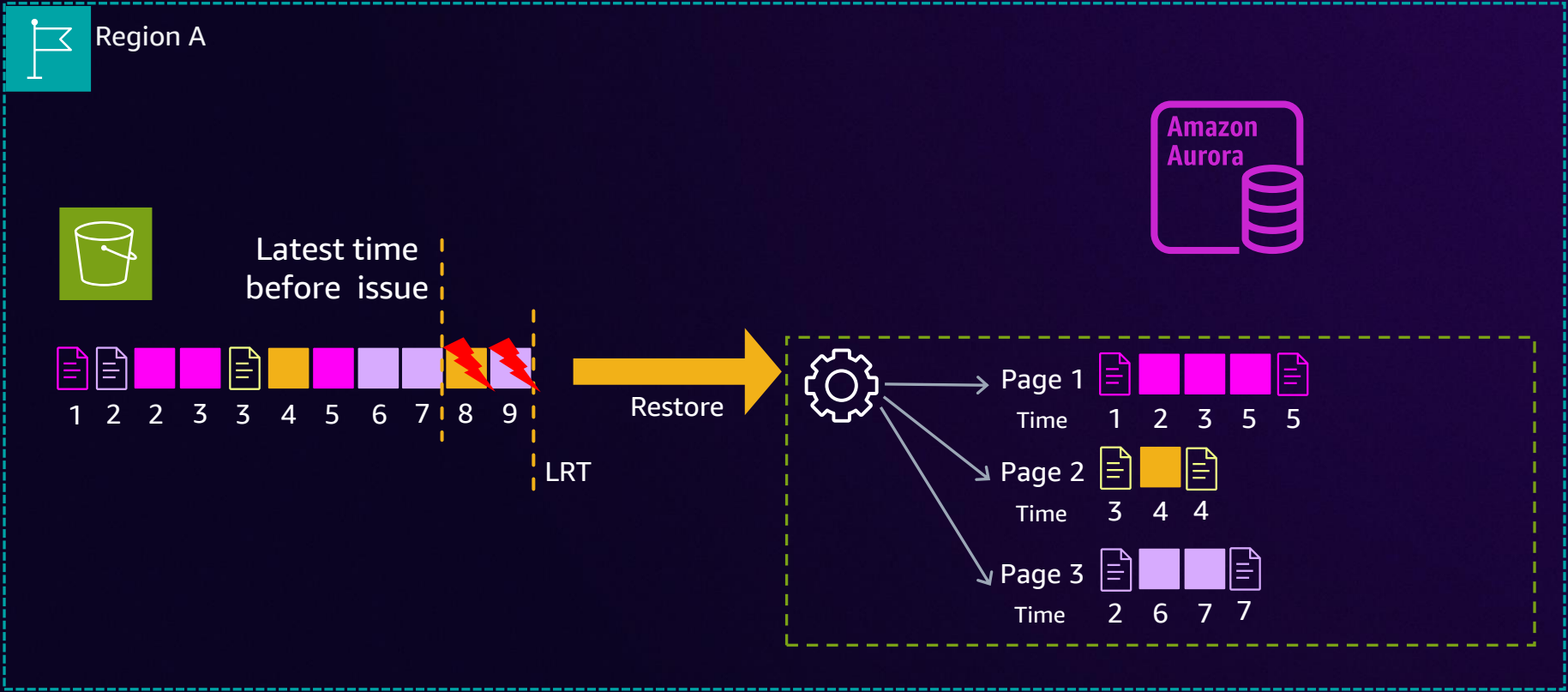
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Restore's inner workings



Amazon RDS console

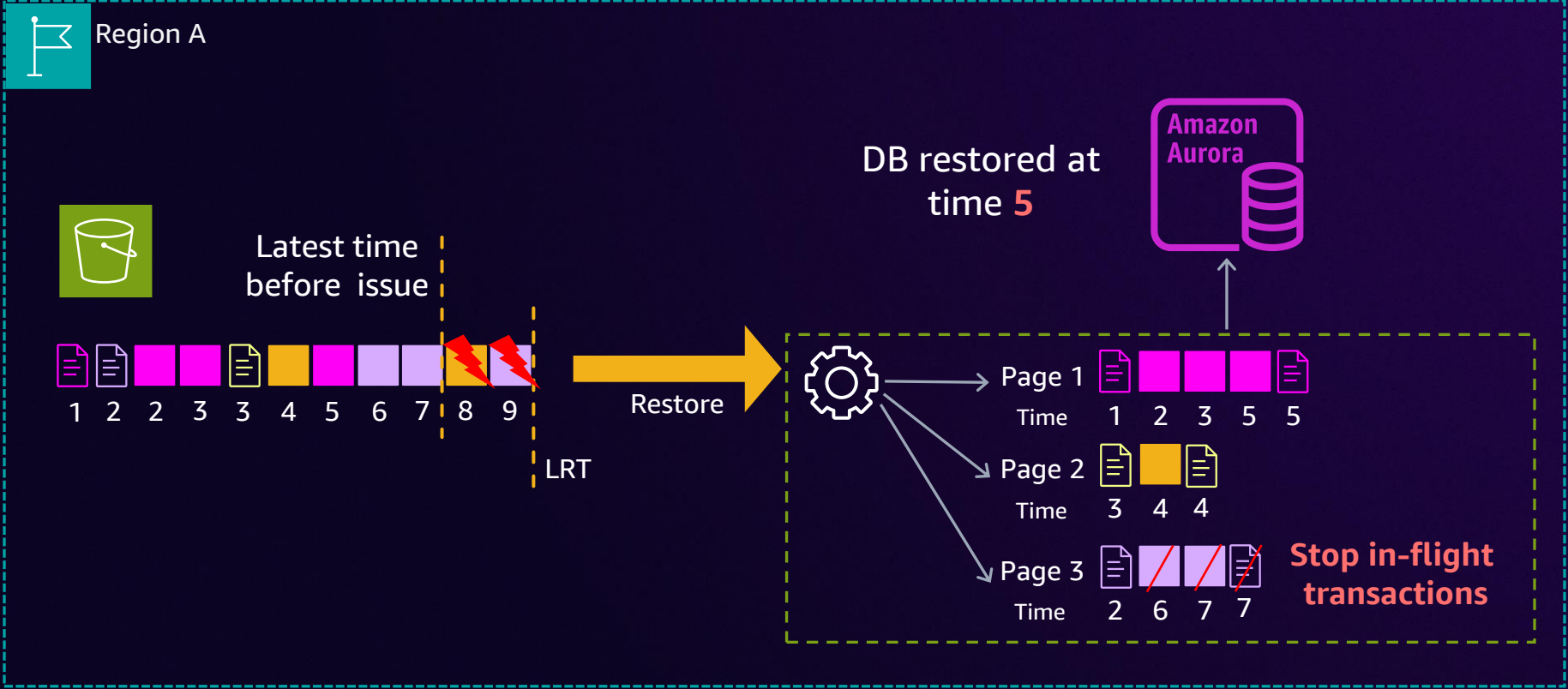
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Restore's inner workings



Amazon RDS console

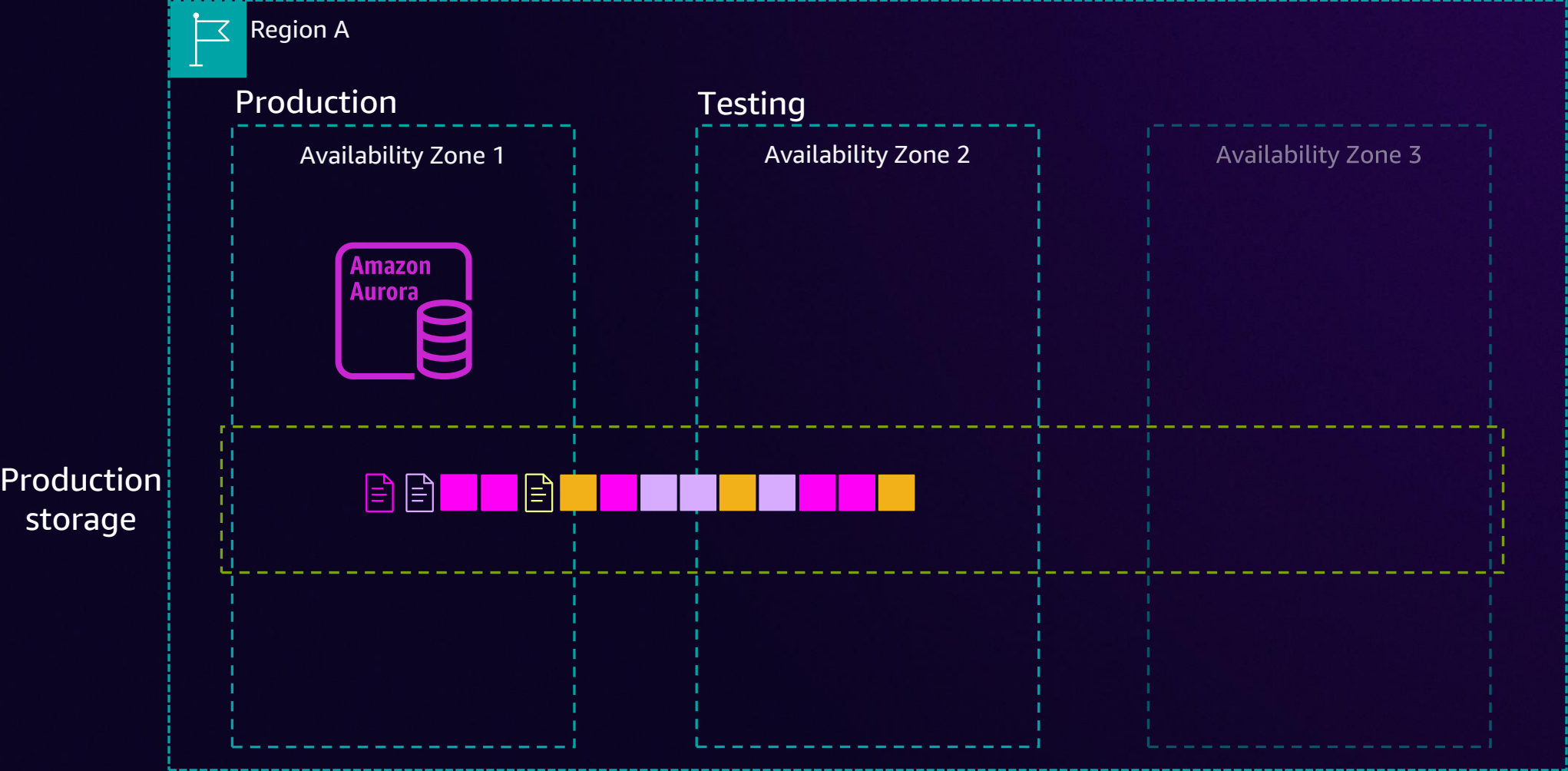
Backup
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Earliest restorable time
October 09, 2024, 14:41 (UTC+10:30)

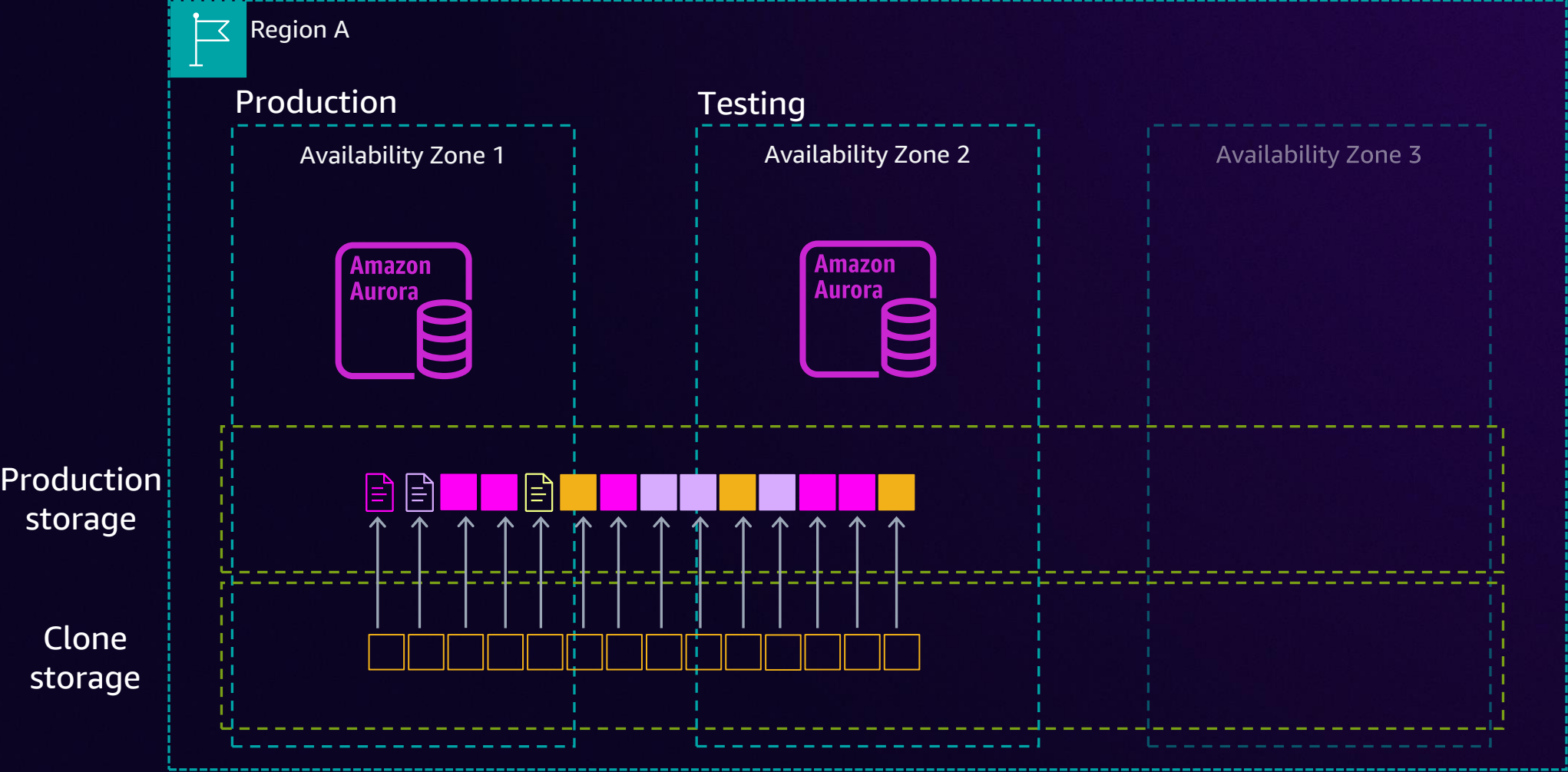
Latest restore time
October 09, 2024, 14:47 (UTC+10:30)



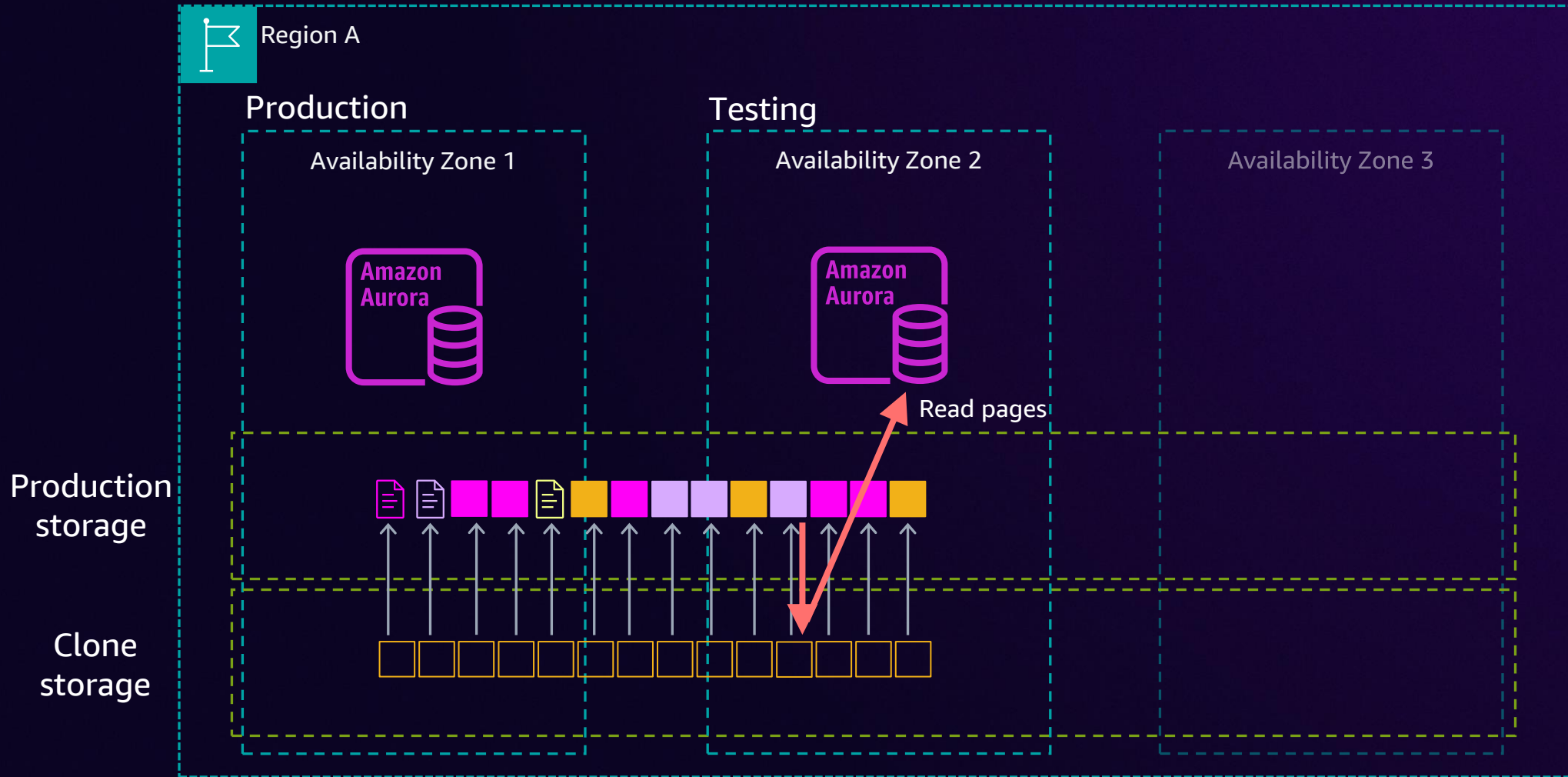
Volume clone



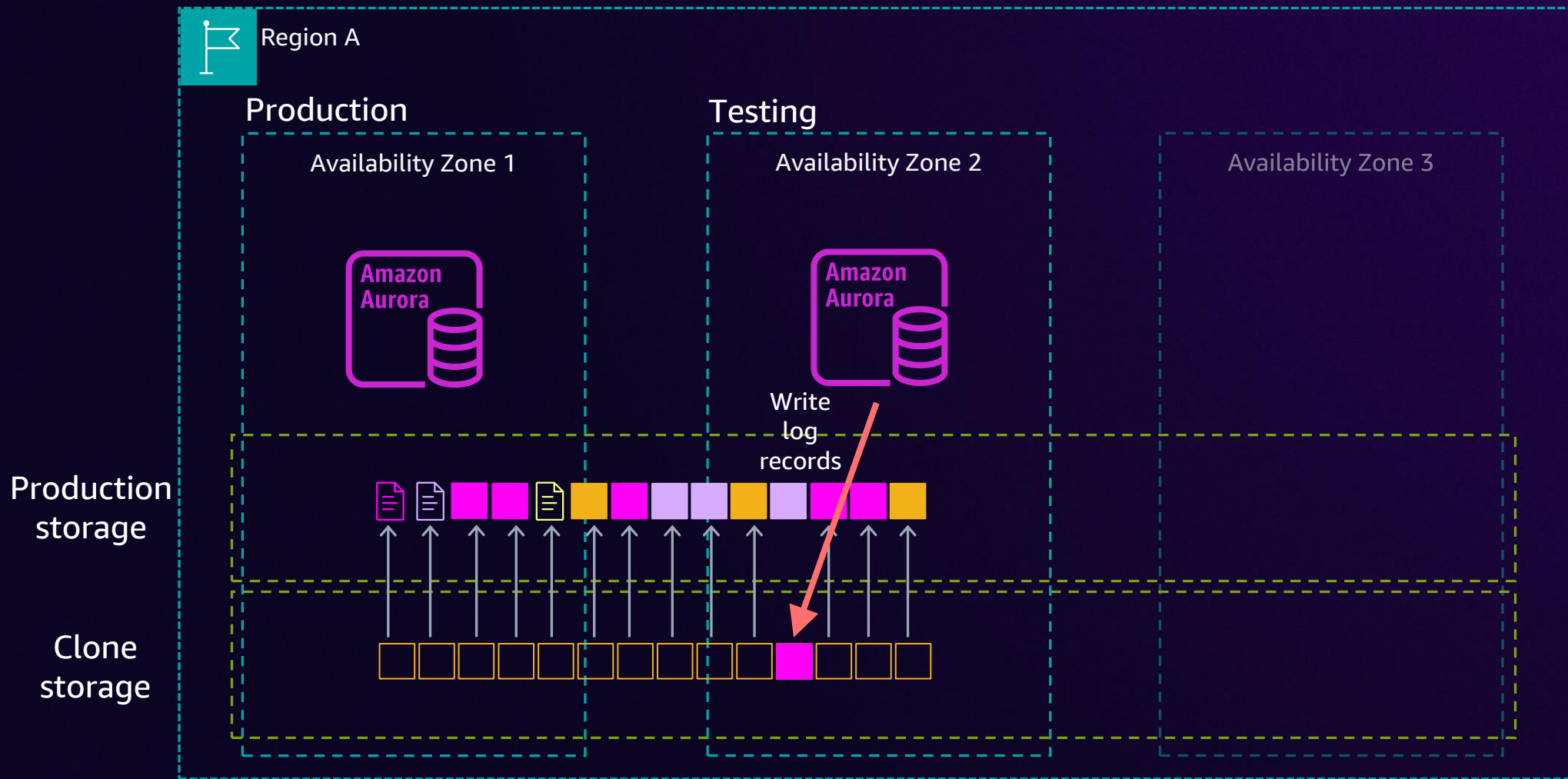
Volume clone



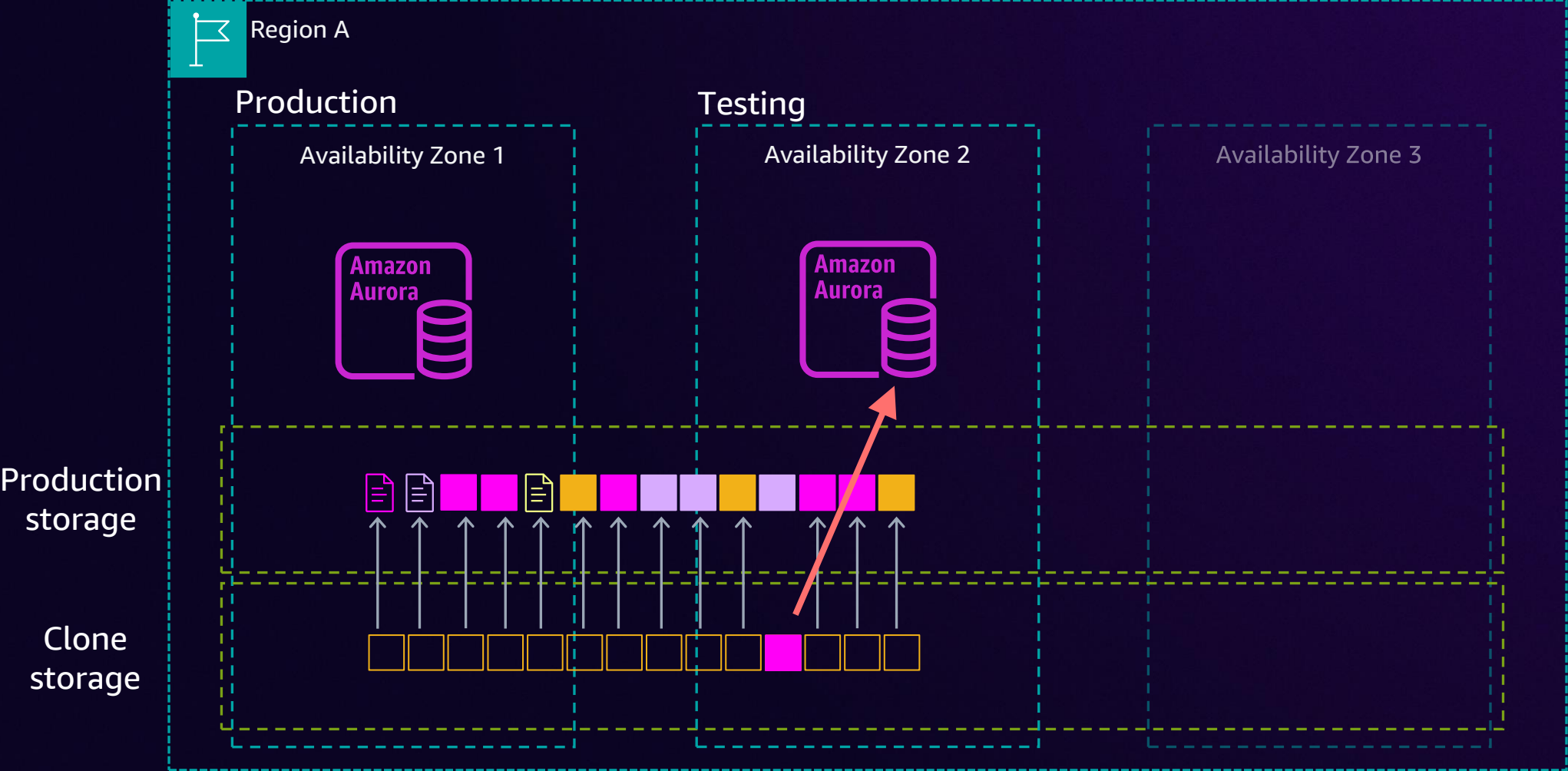
Volume clone



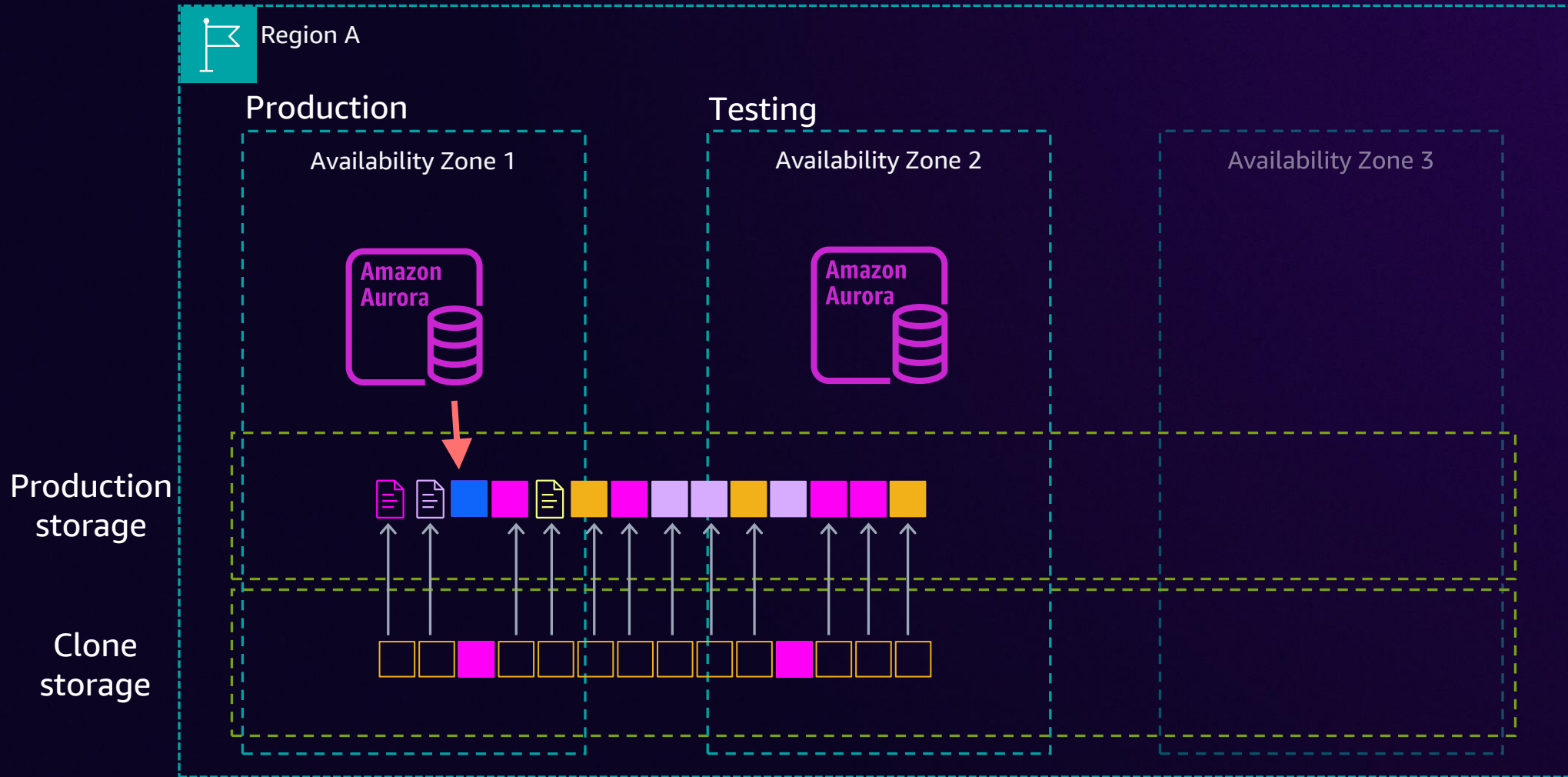
Volume clone



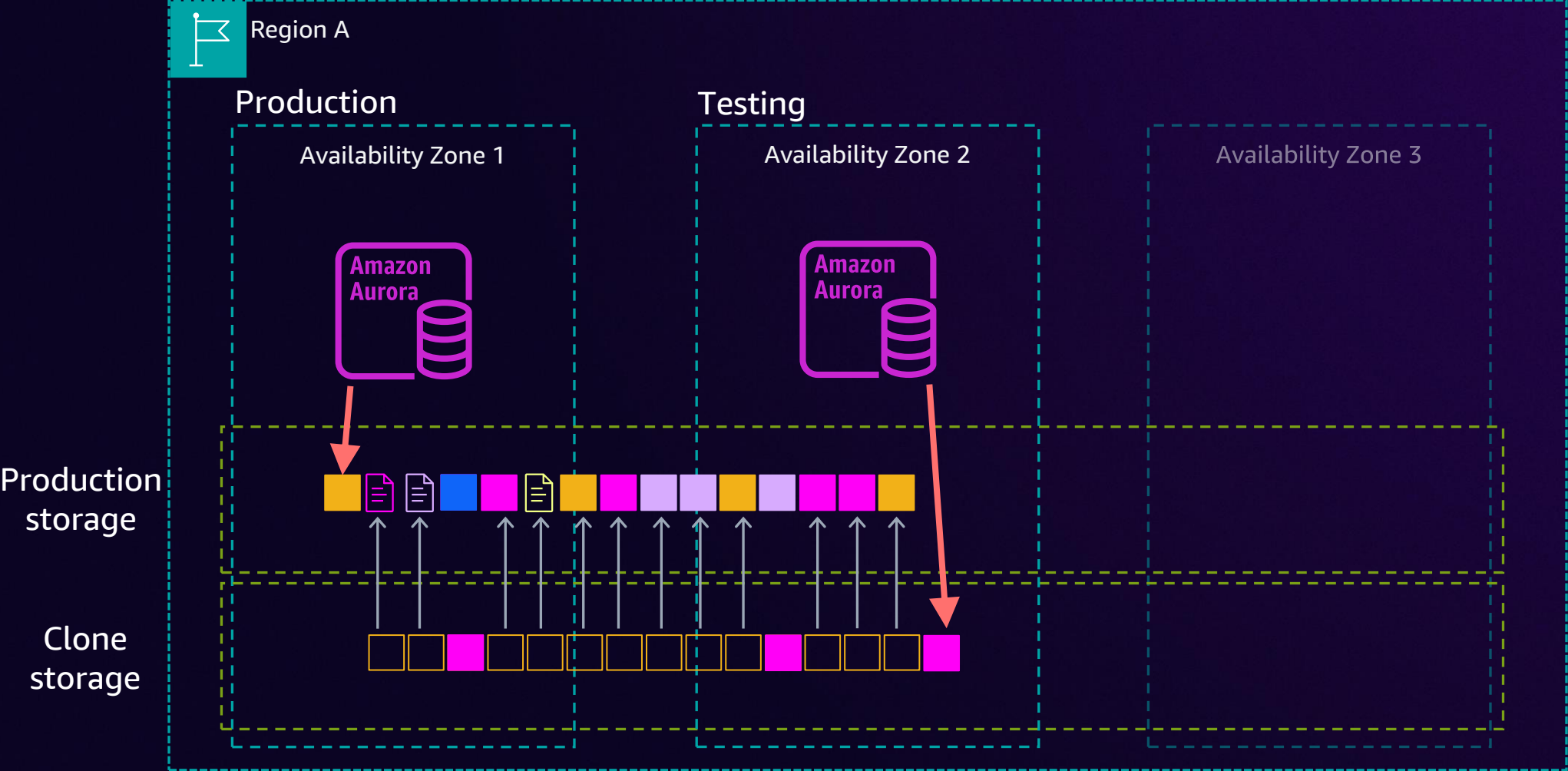
Volume clone



Volume clone



Volume clone



“

**Everything fails,
all the time**

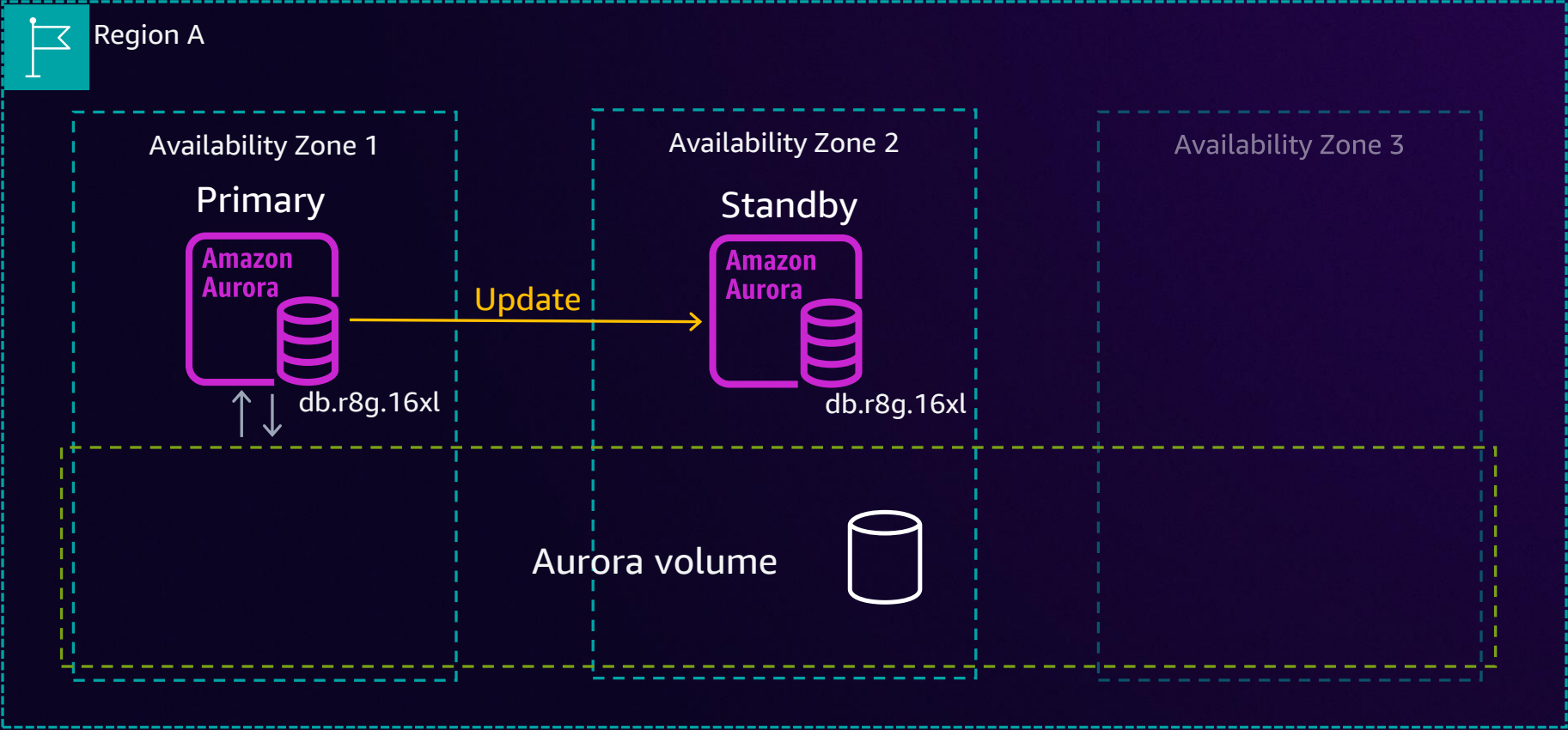
Dr. Werner Vogels

VP and CTO

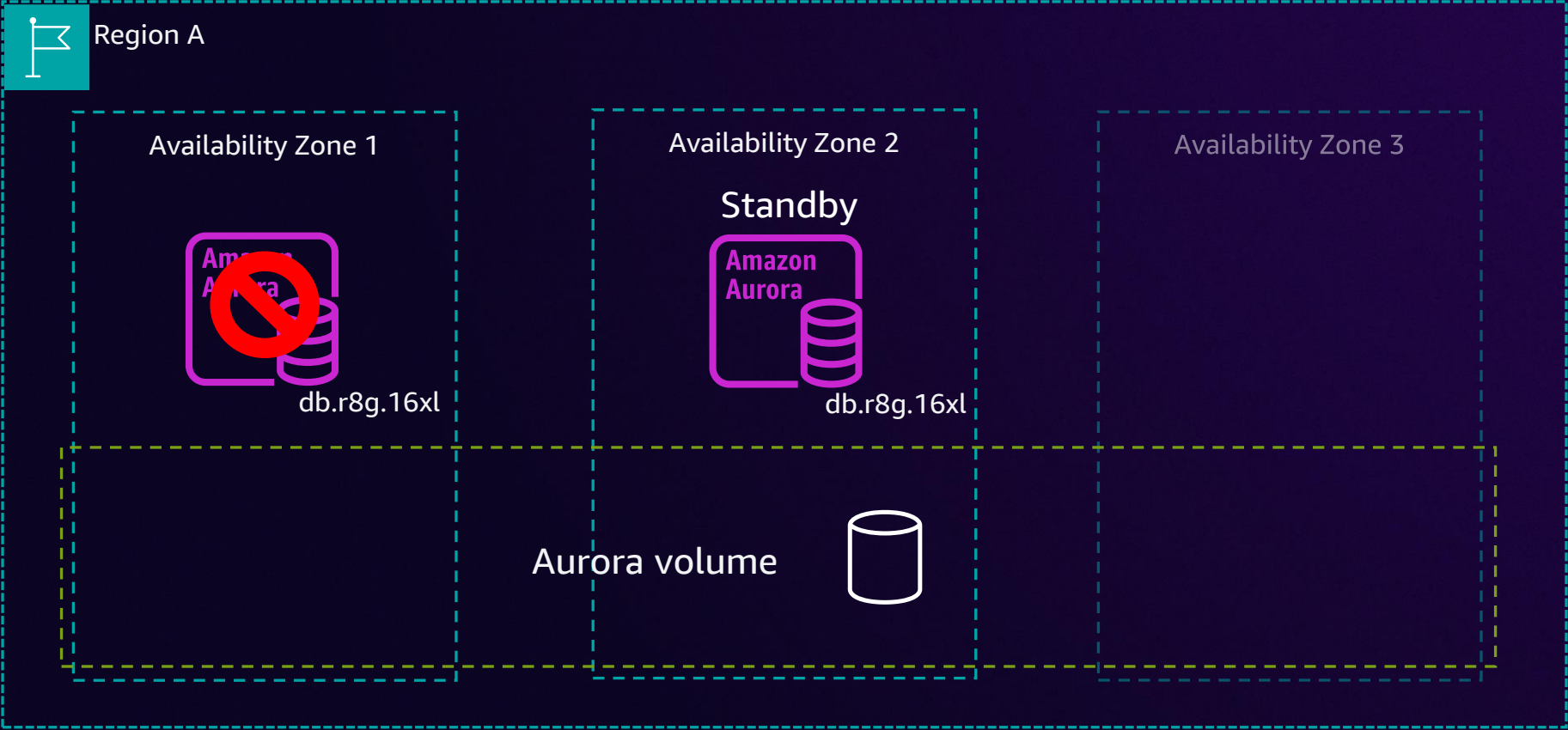
Amazon.com



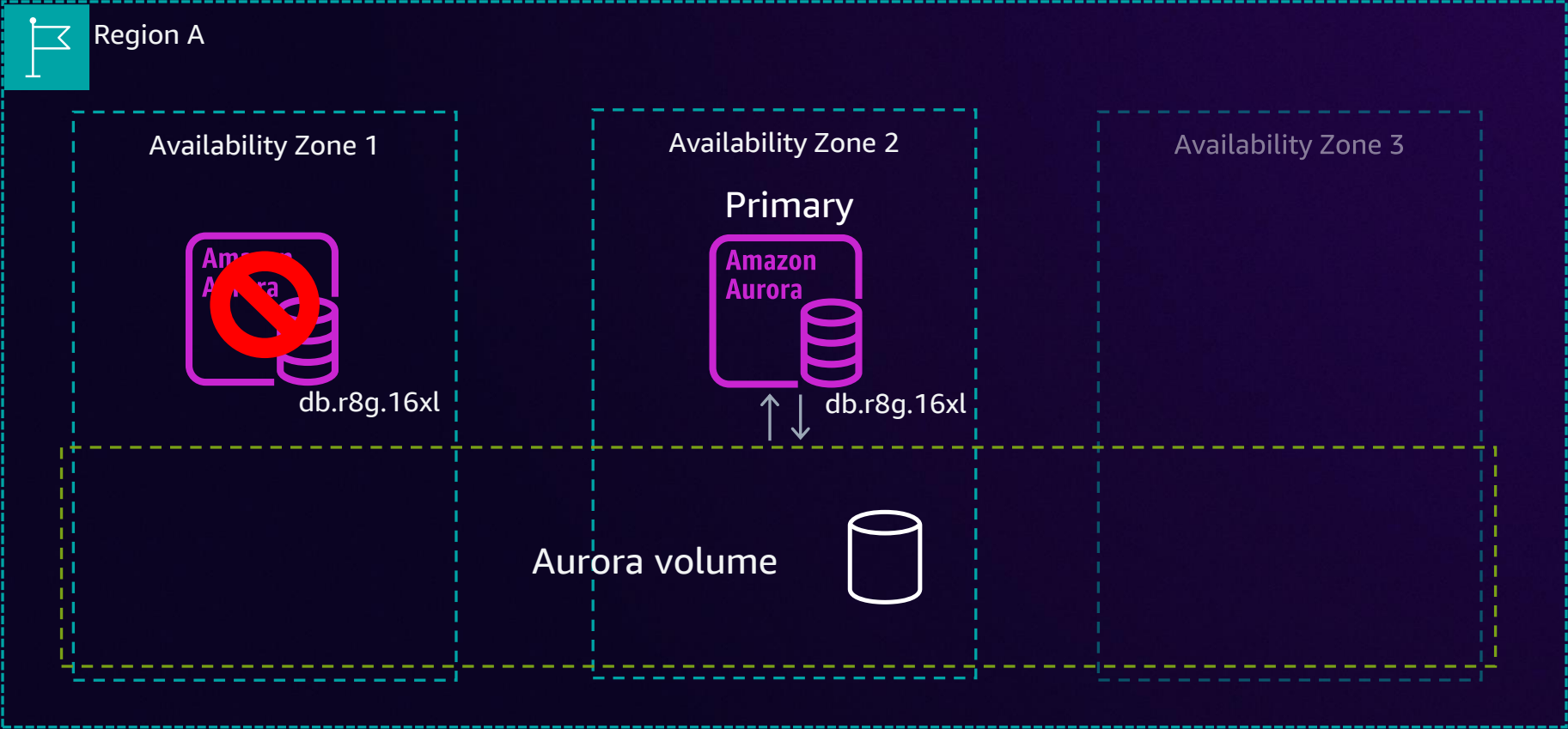
Multi-AZ



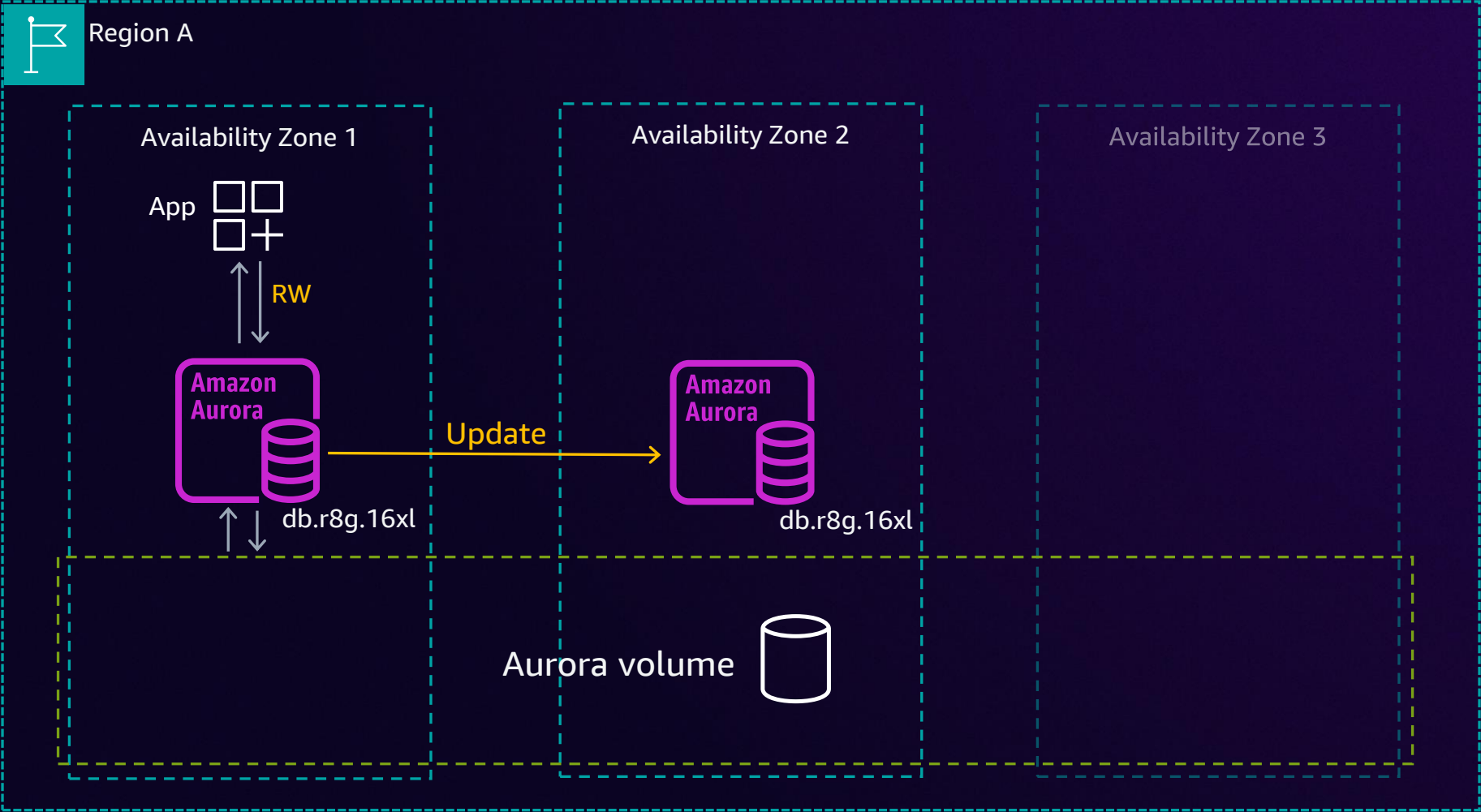
Multi-AZ



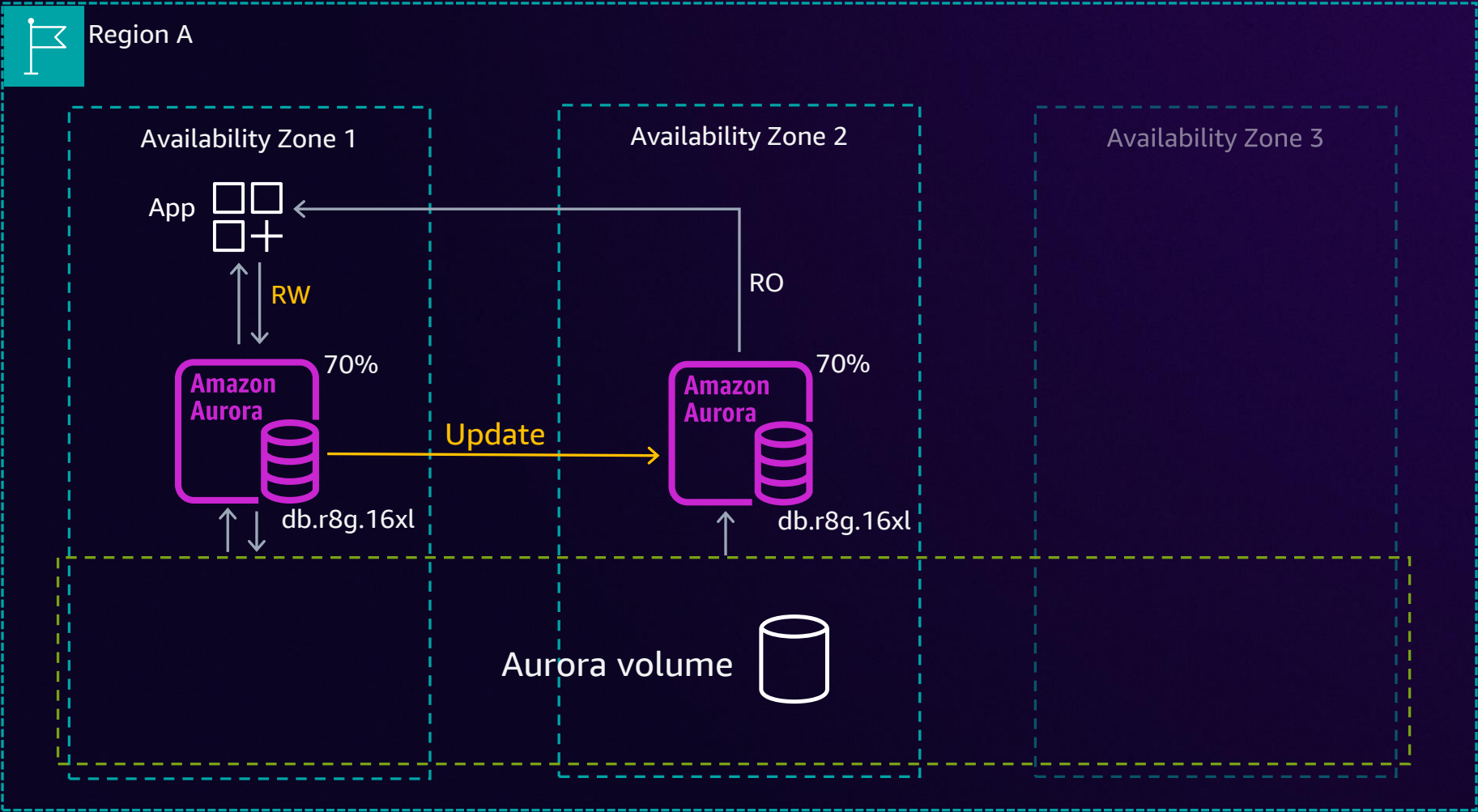
Multi-AZ



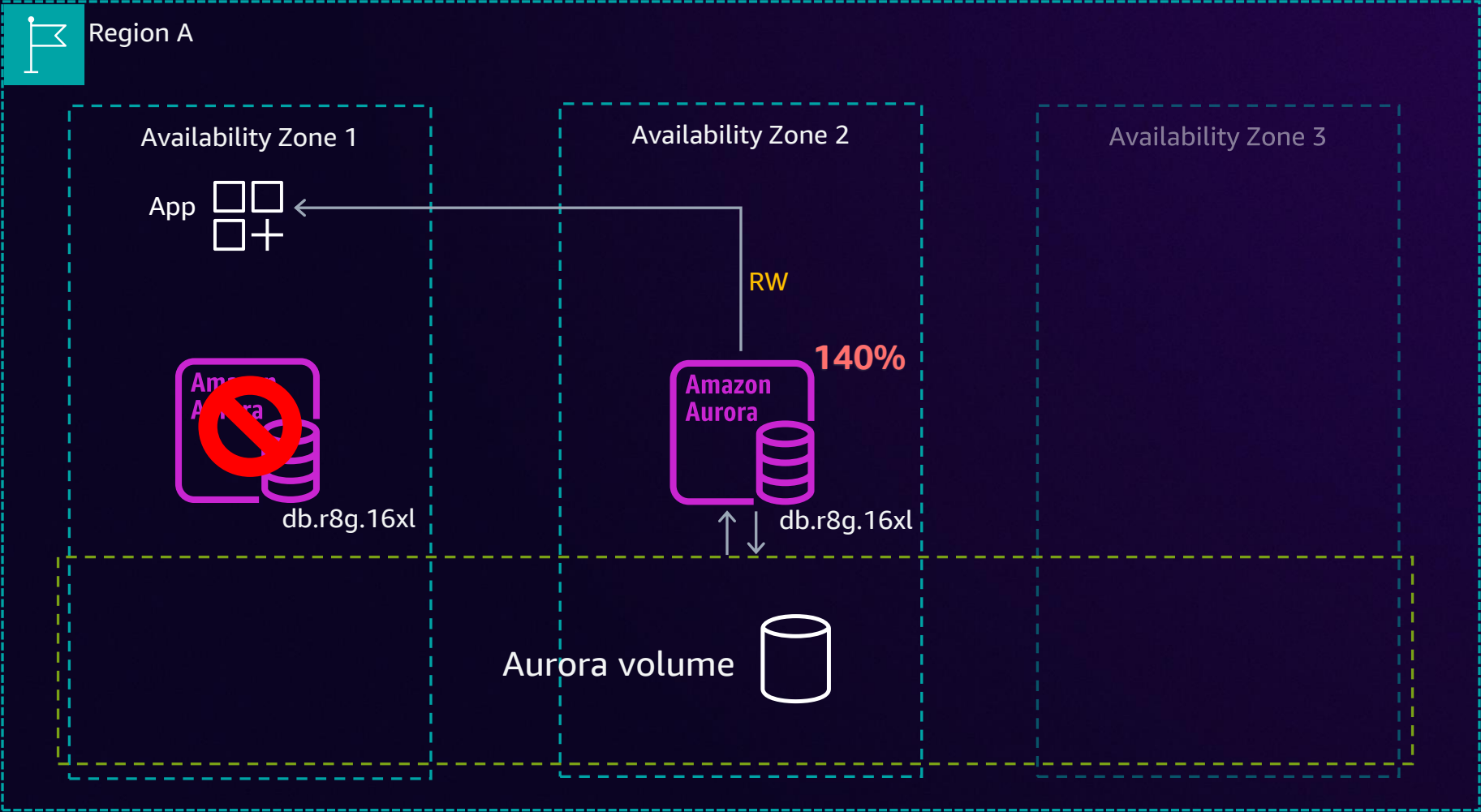
Read replica



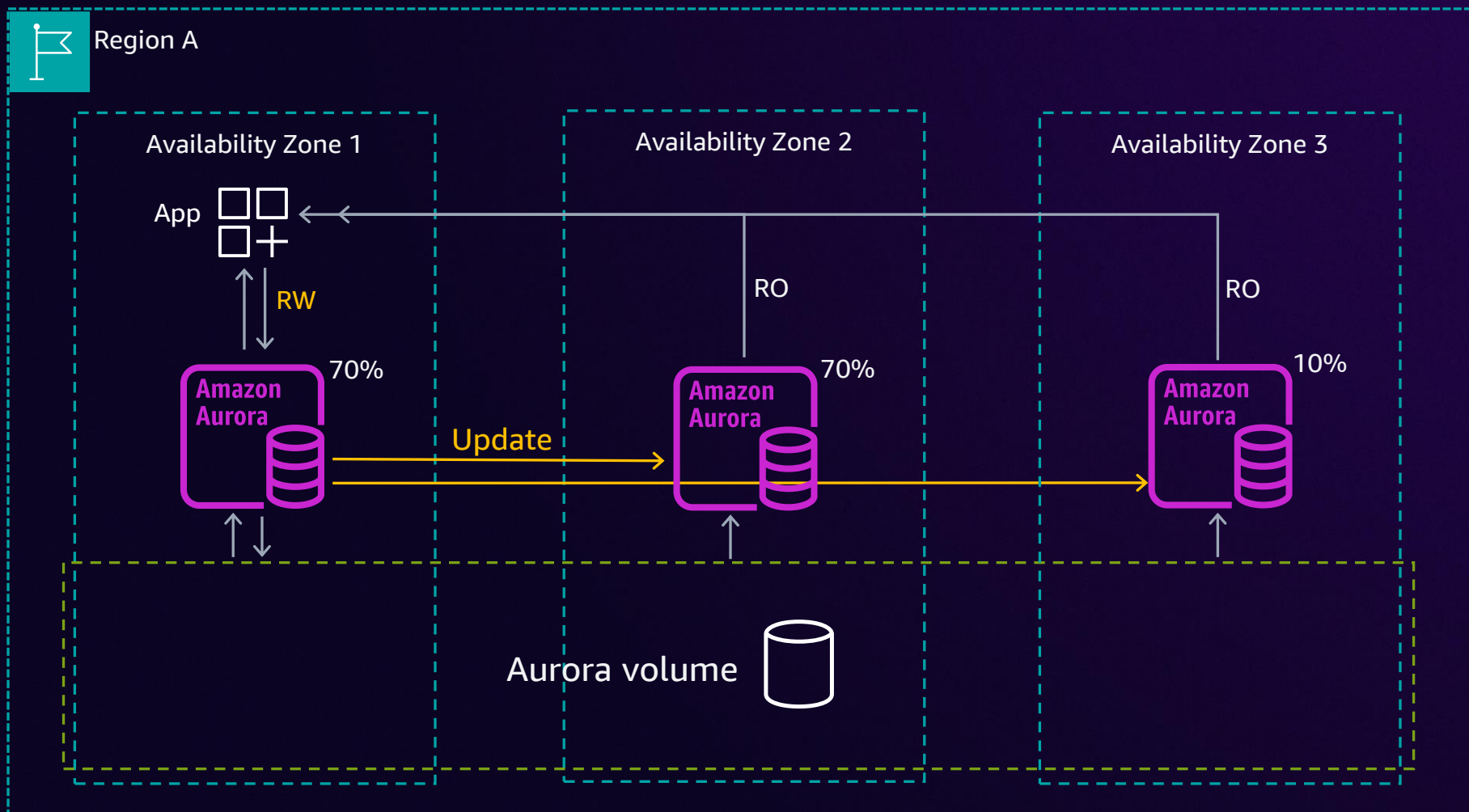
Read replica



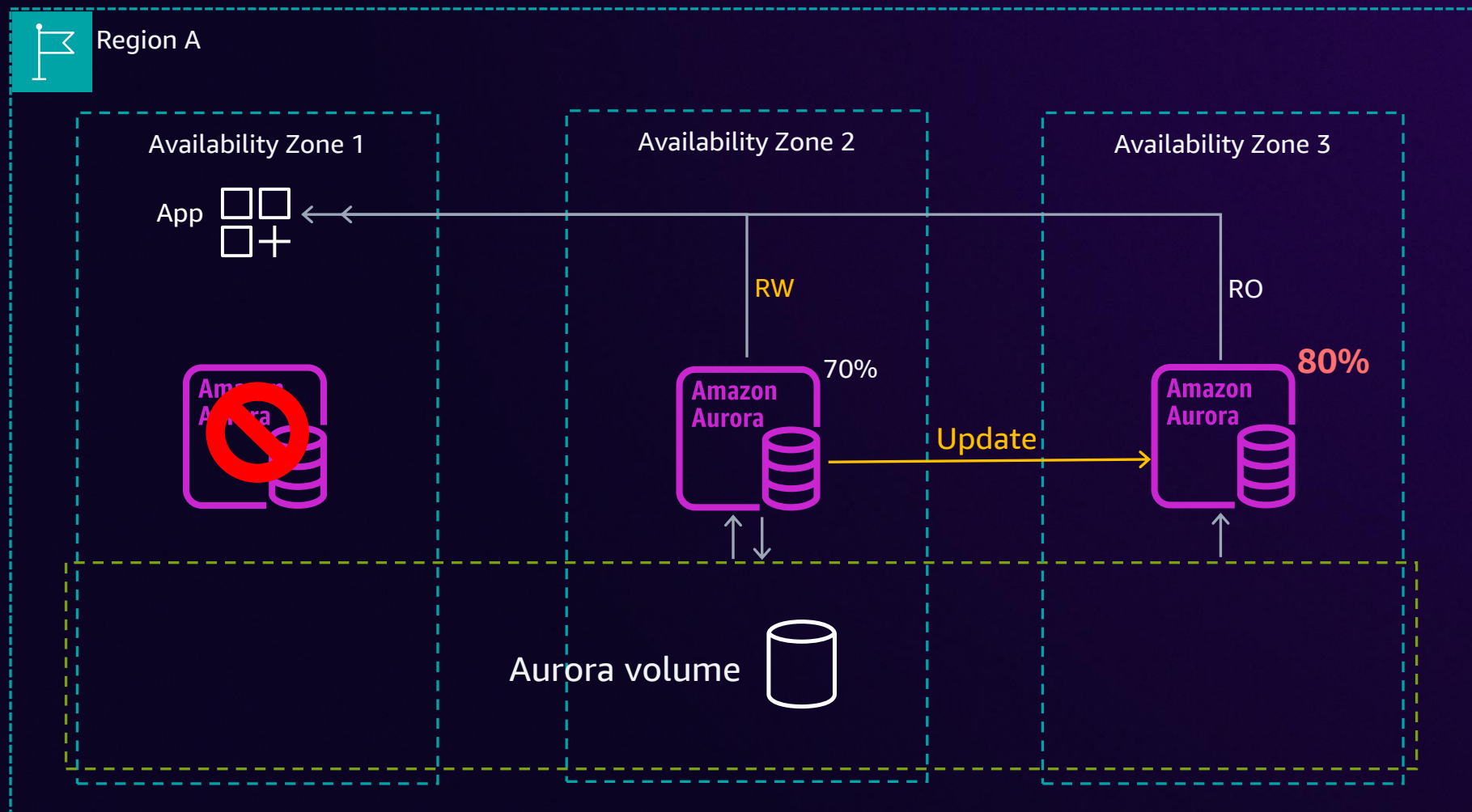
Read replica



A large cluster



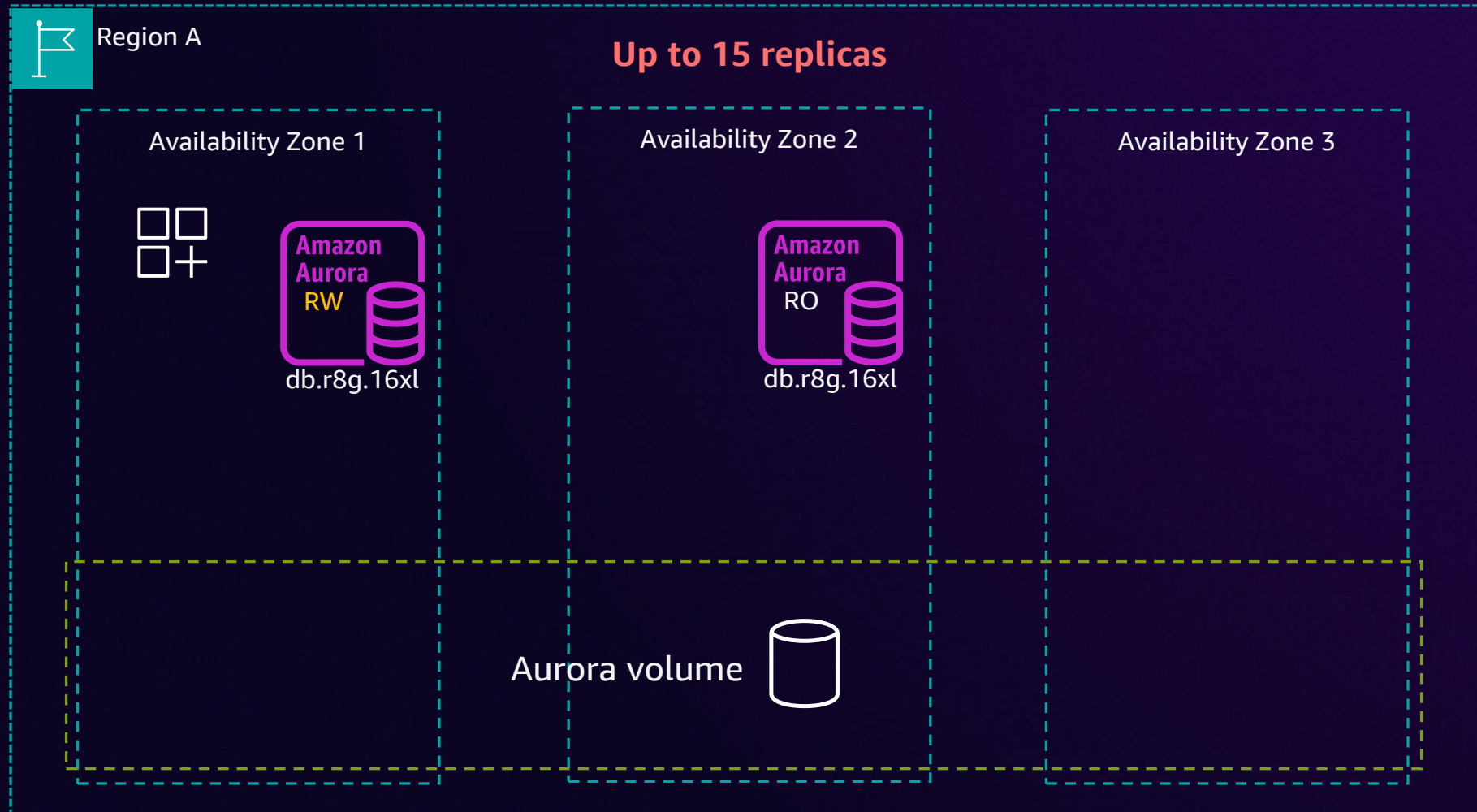
A large cluster



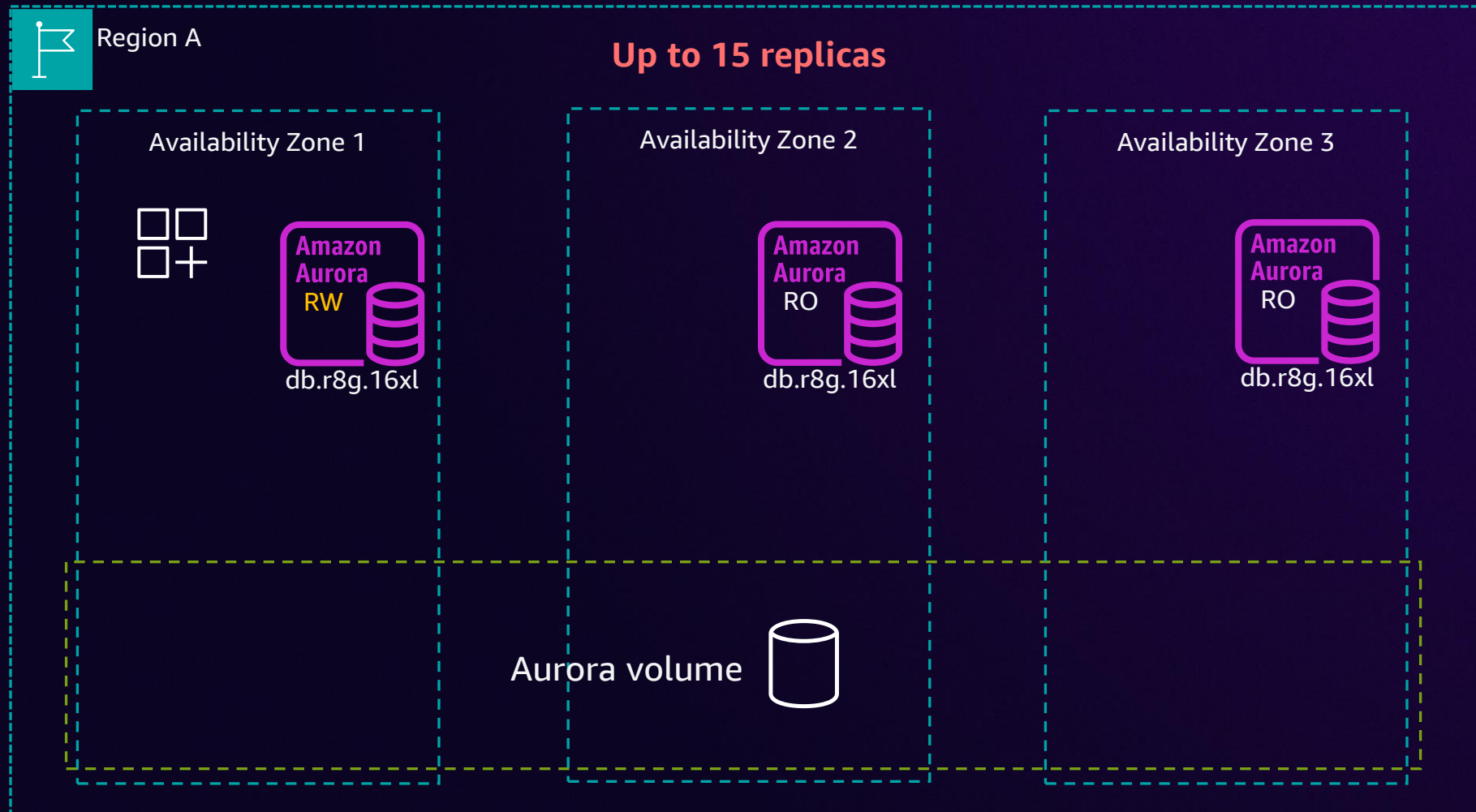
A mixed cluster



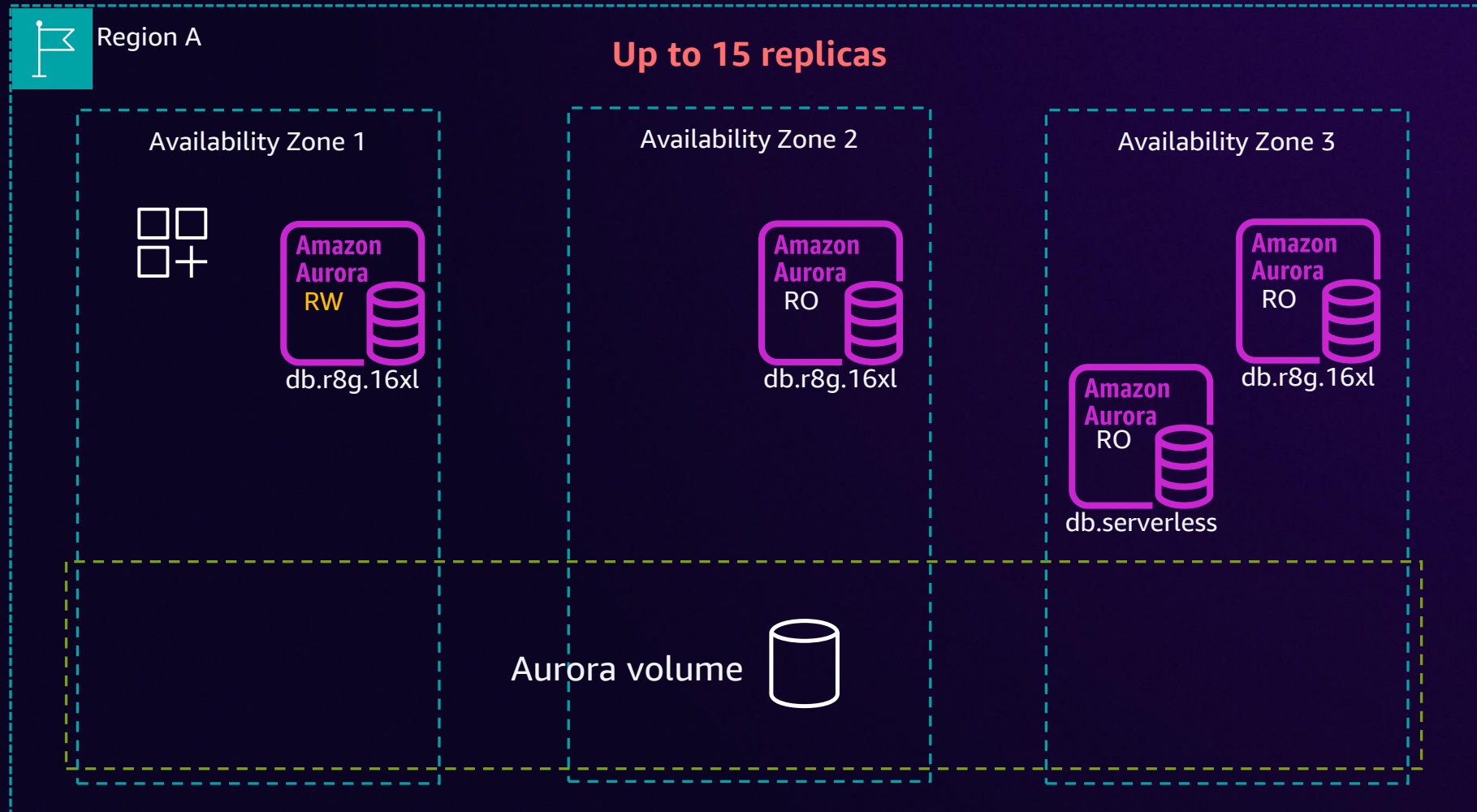
A mixed cluster



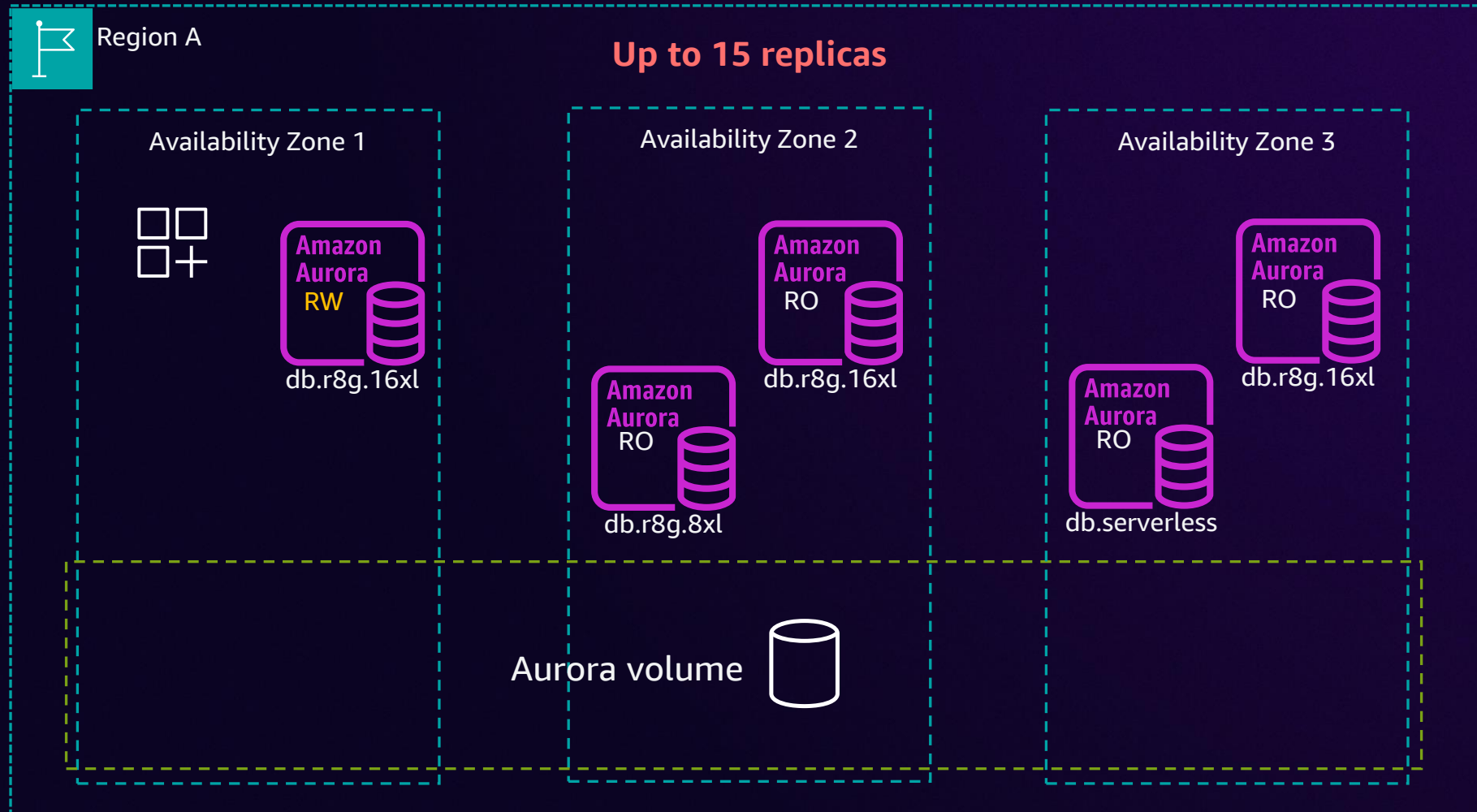
A mixed cluster



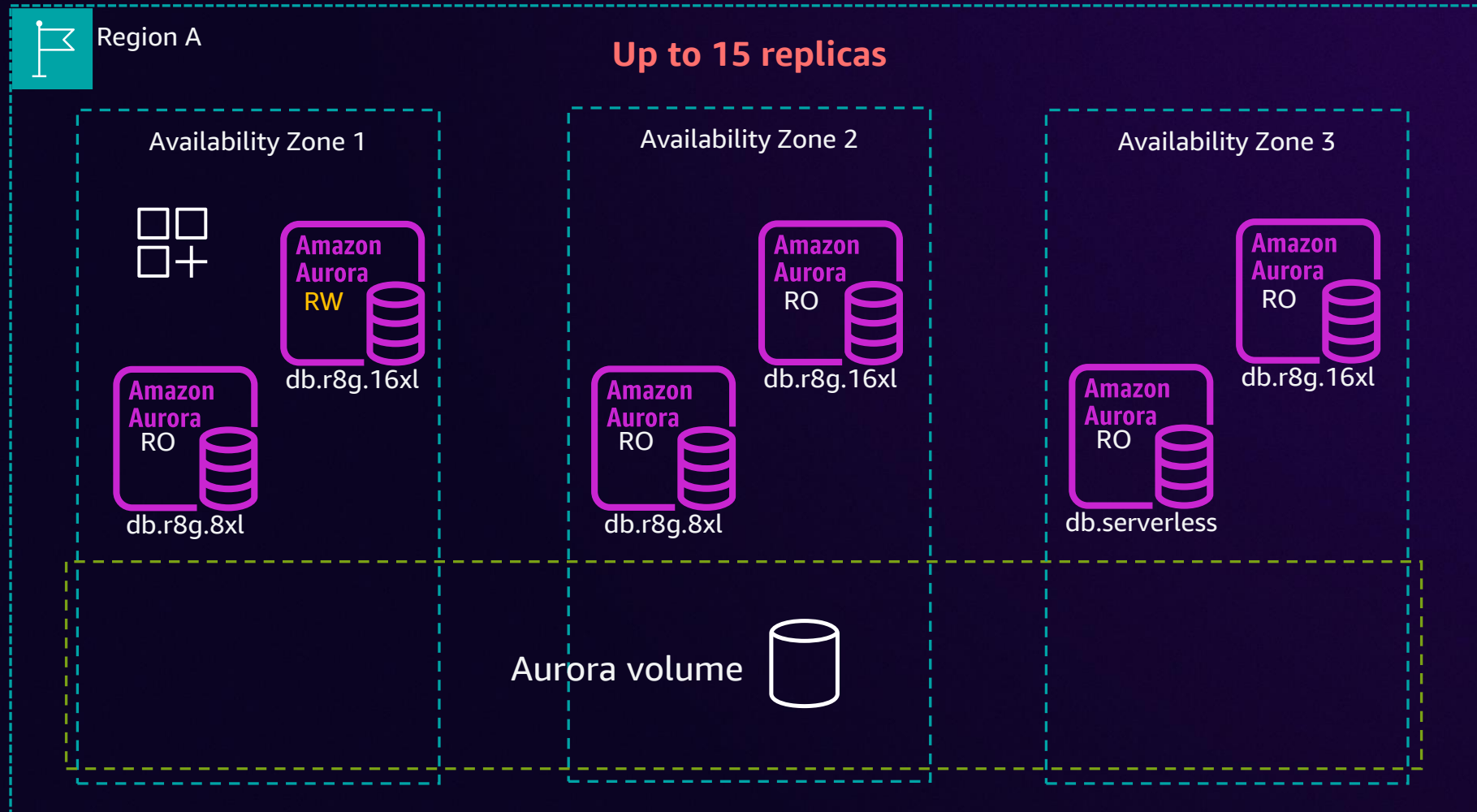
A mixed cluster



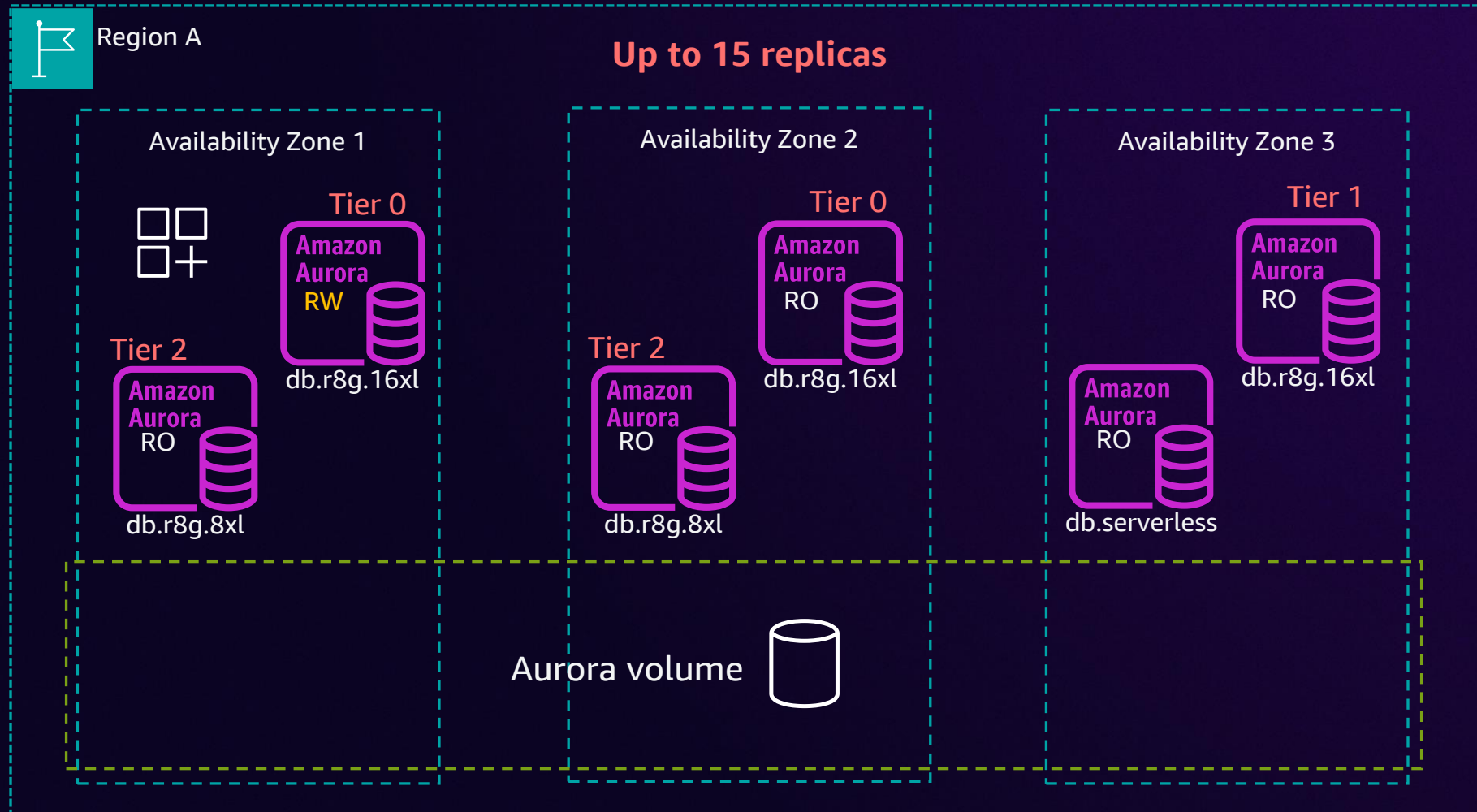
A mixed cluster



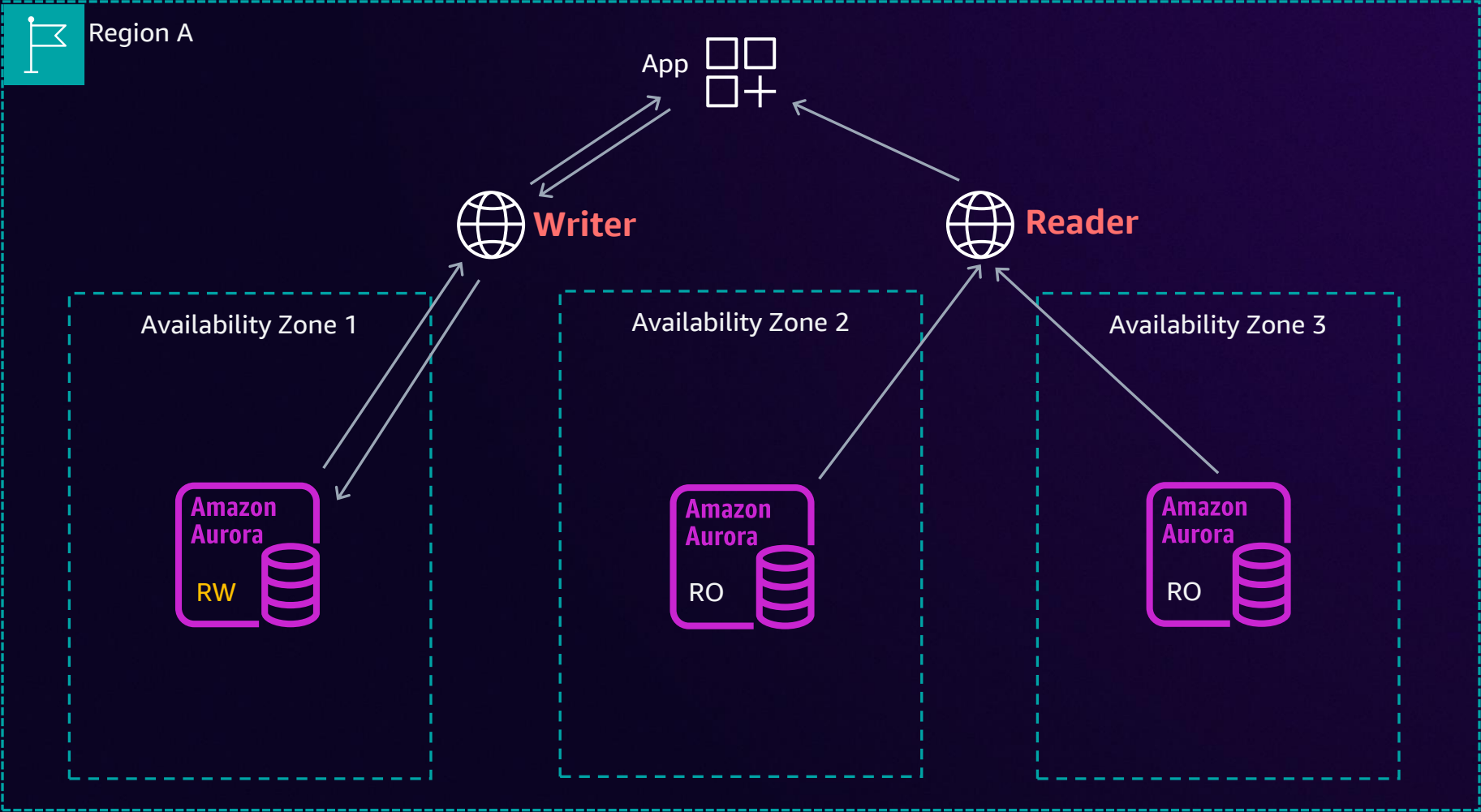
A mixed cluster



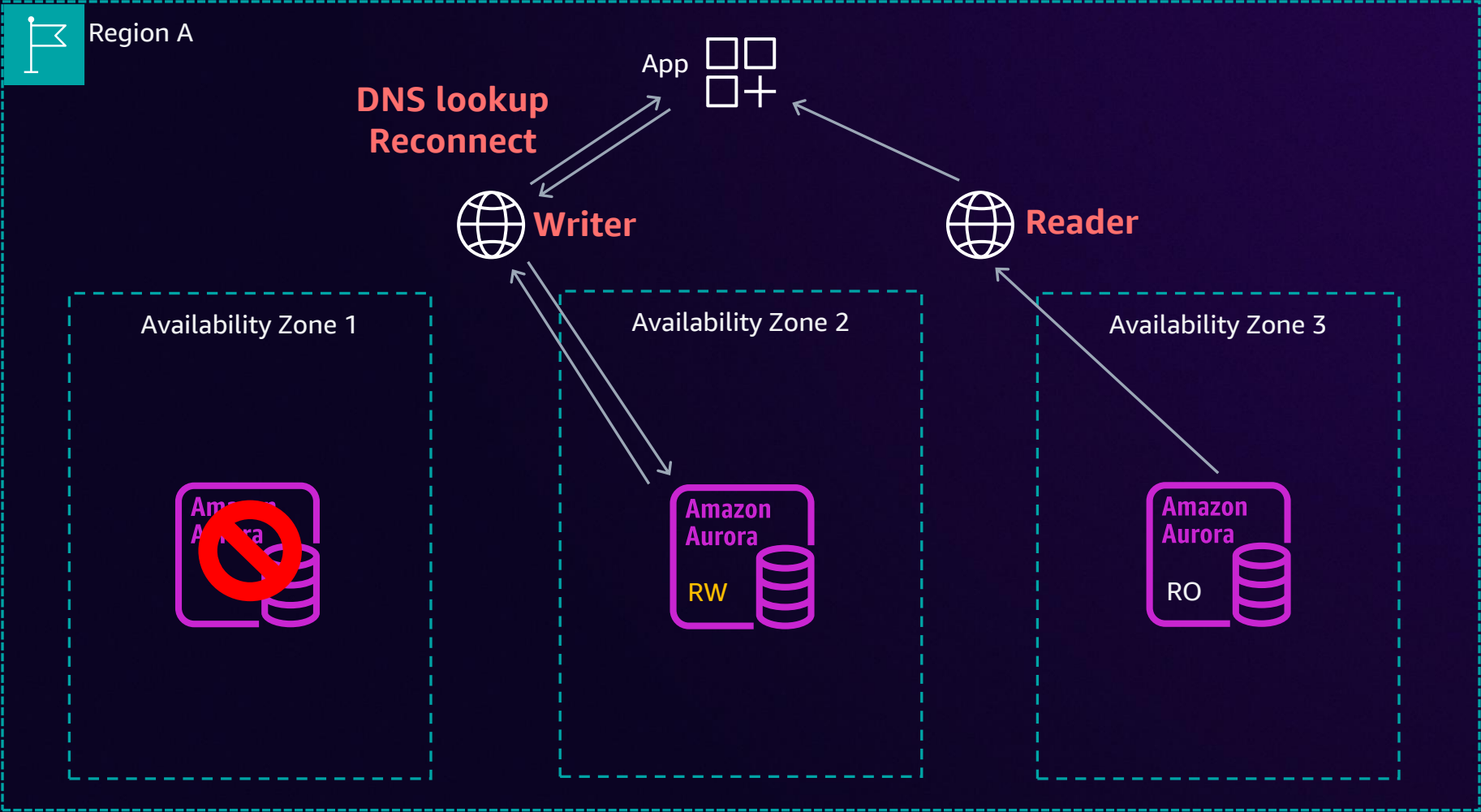
A mixed cluster



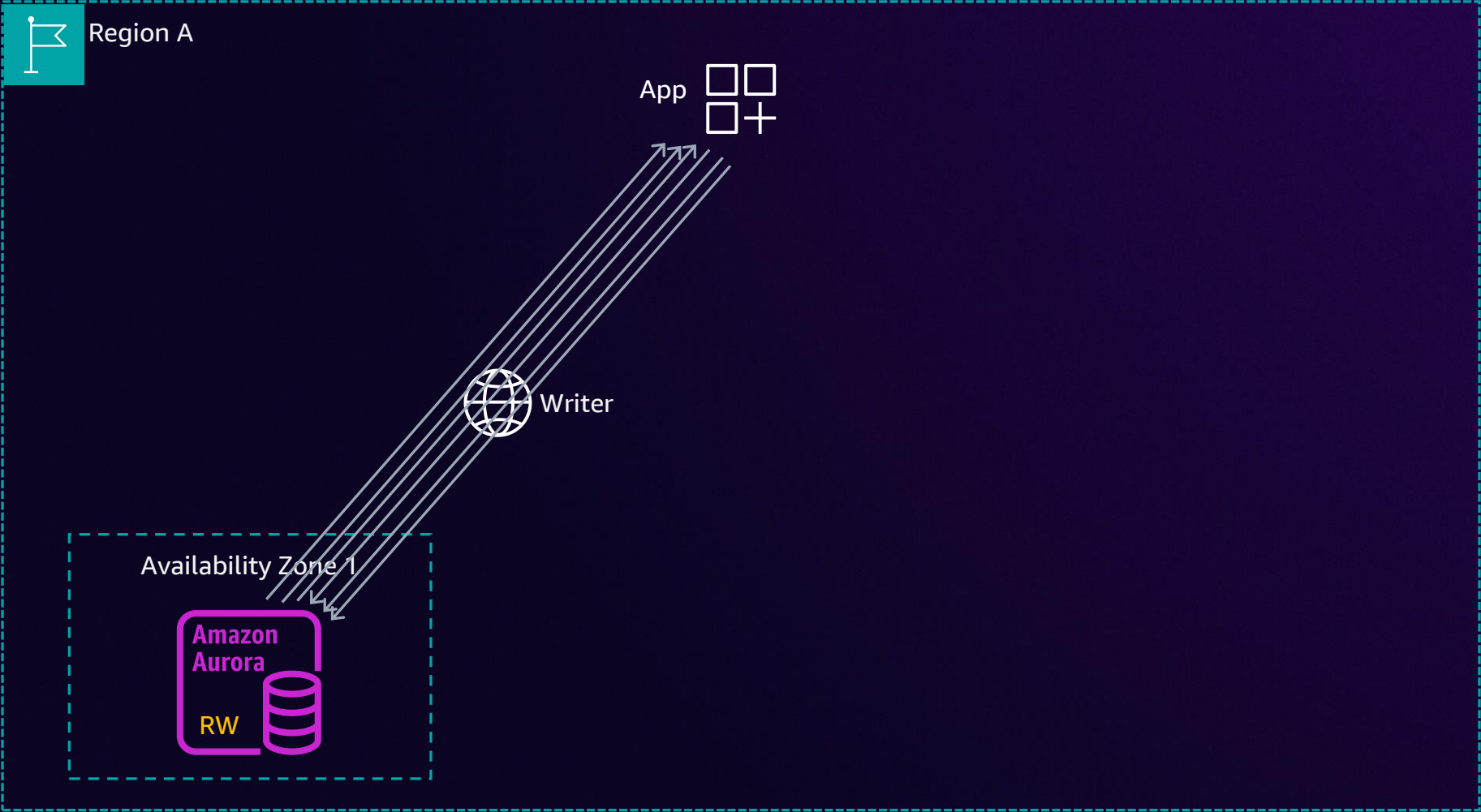
Endpoints



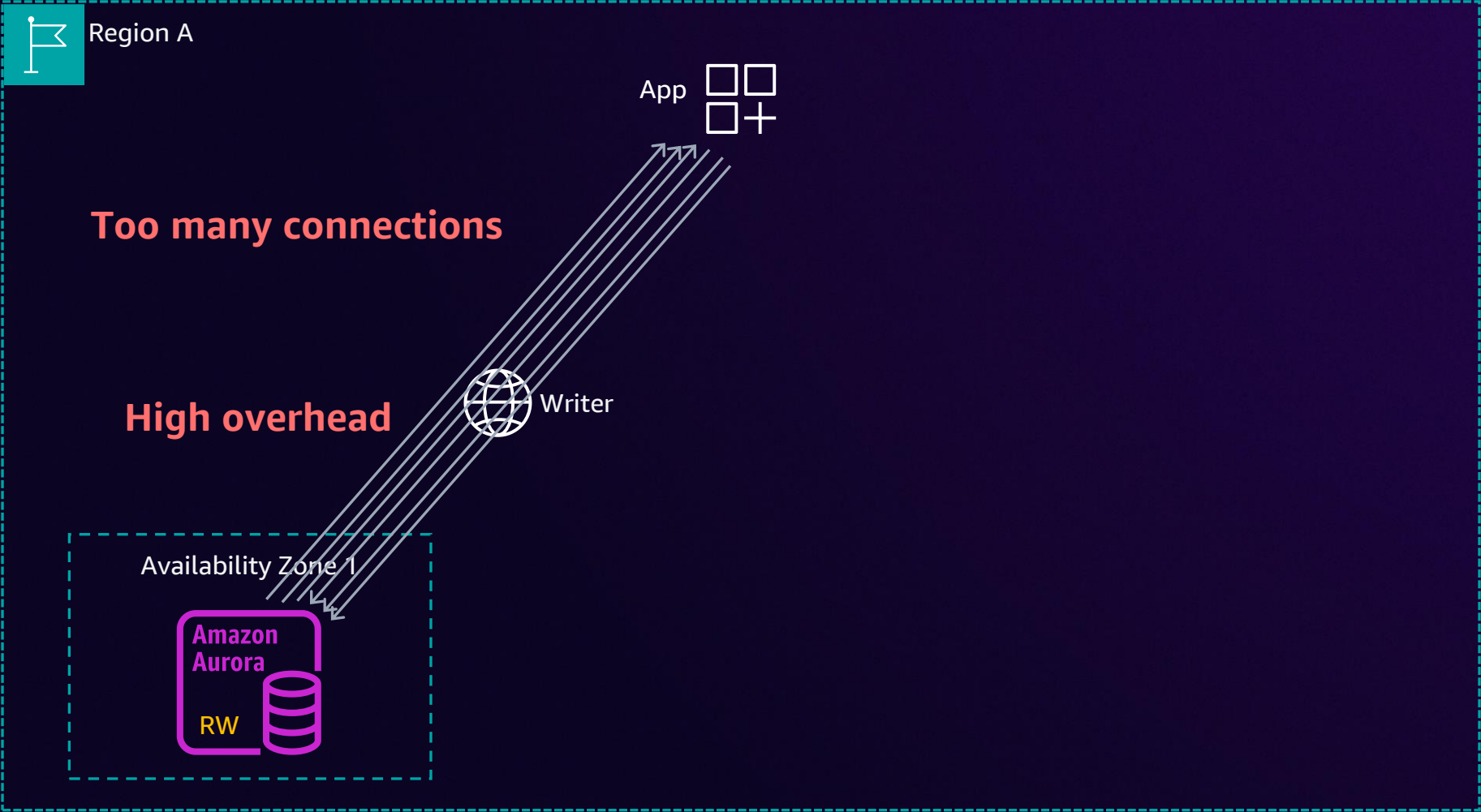
Endpoints



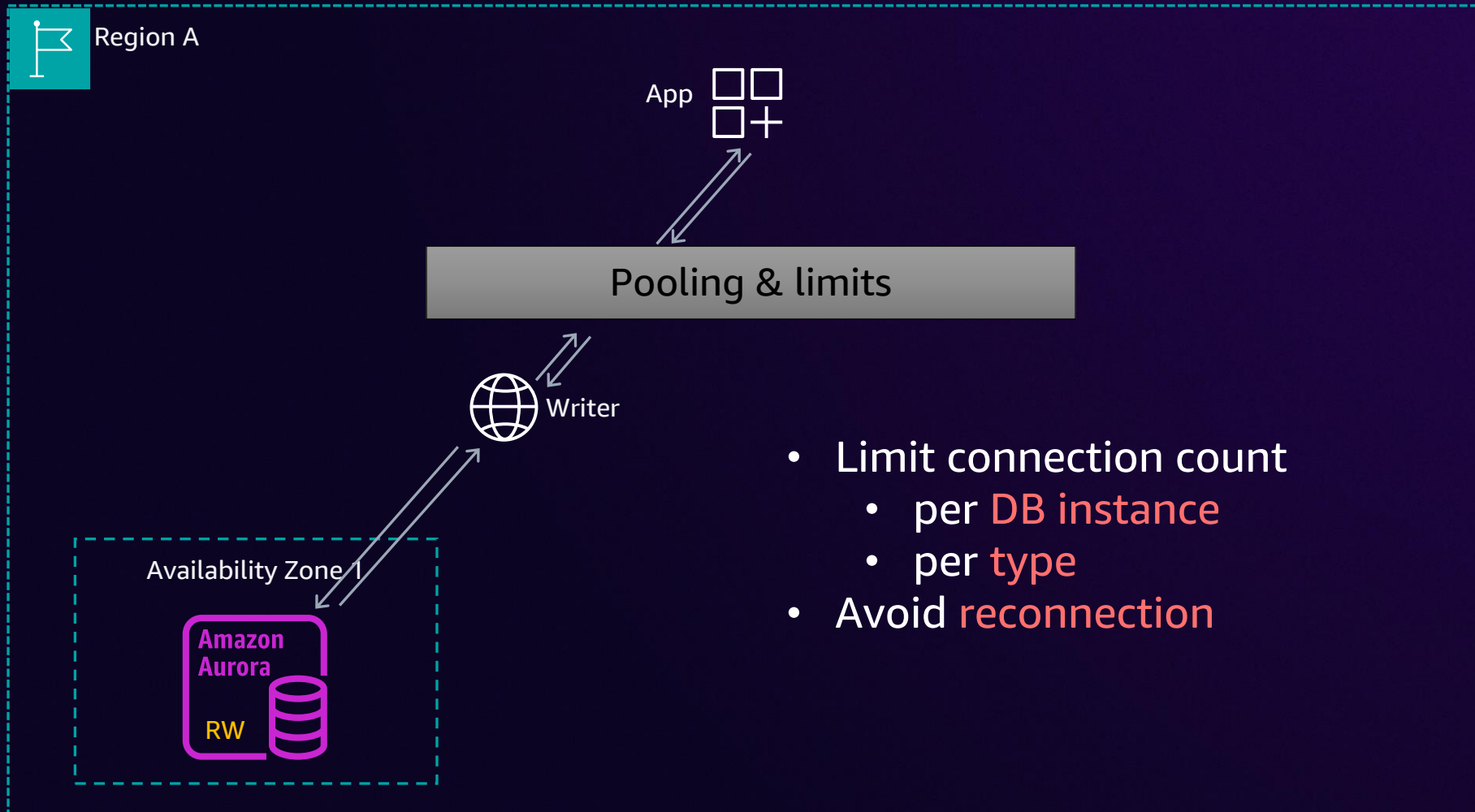
Connection management



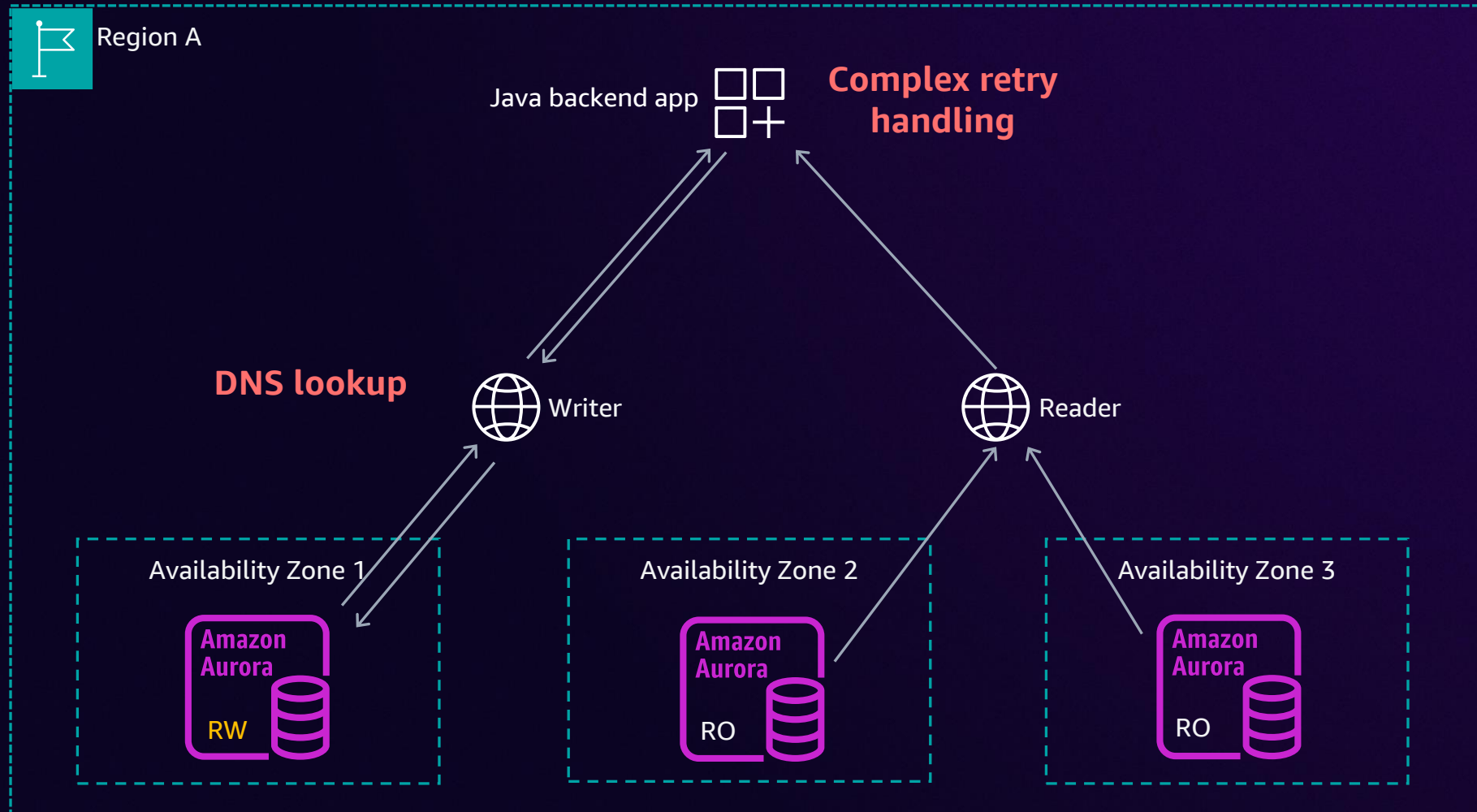
Connection management



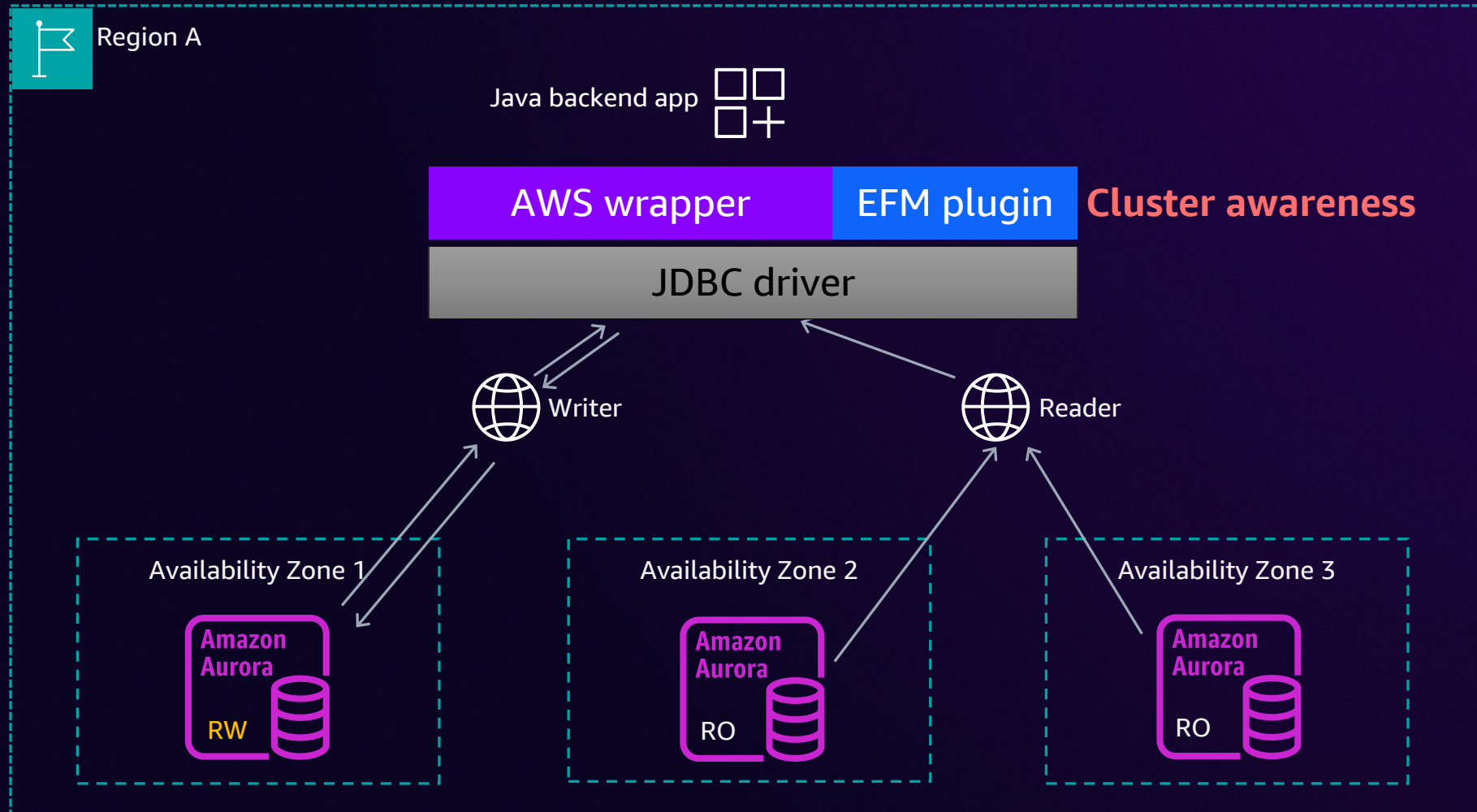
Connection management



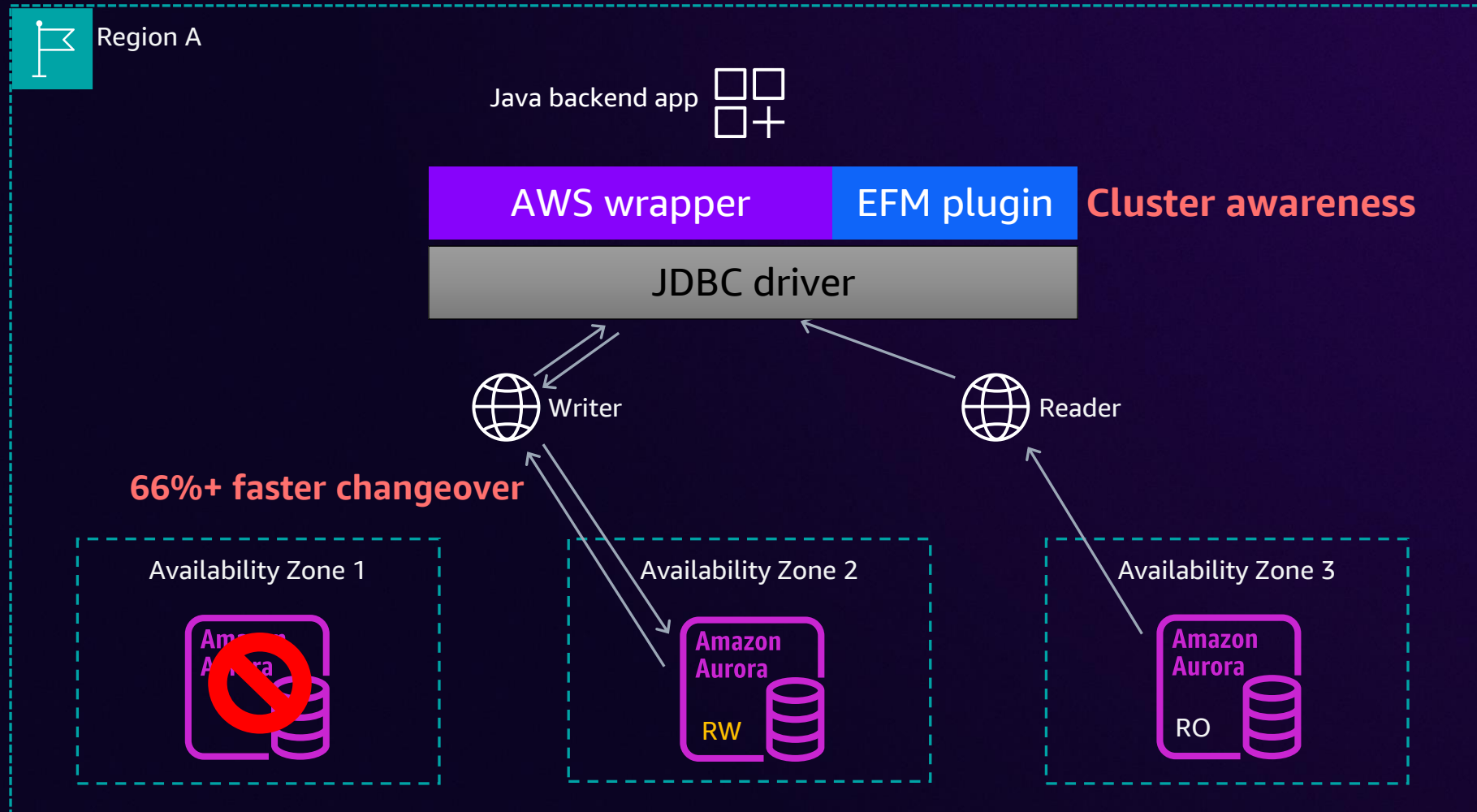
AWS advanced JDBC wrapper



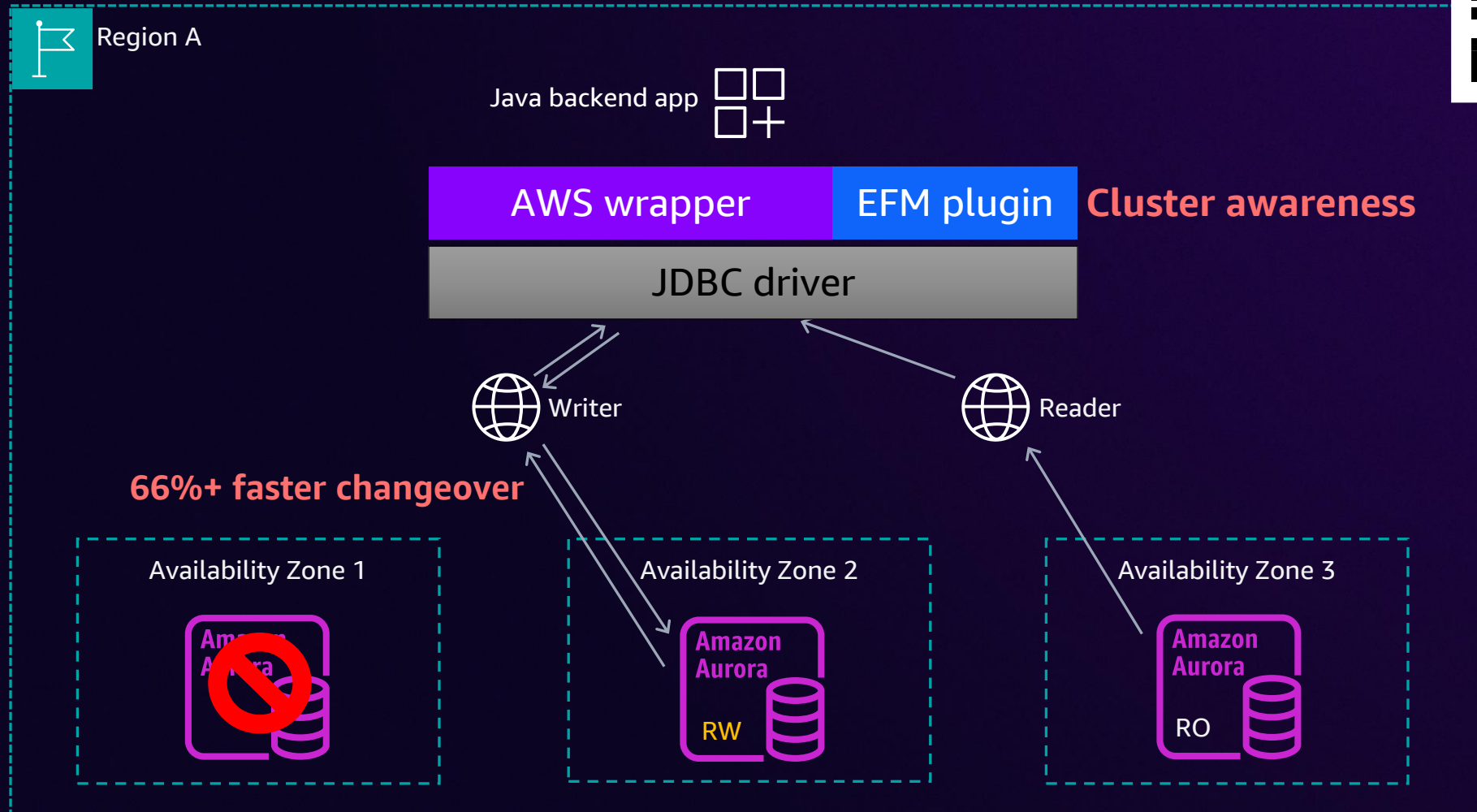
AWS advanced JDBC wrapper



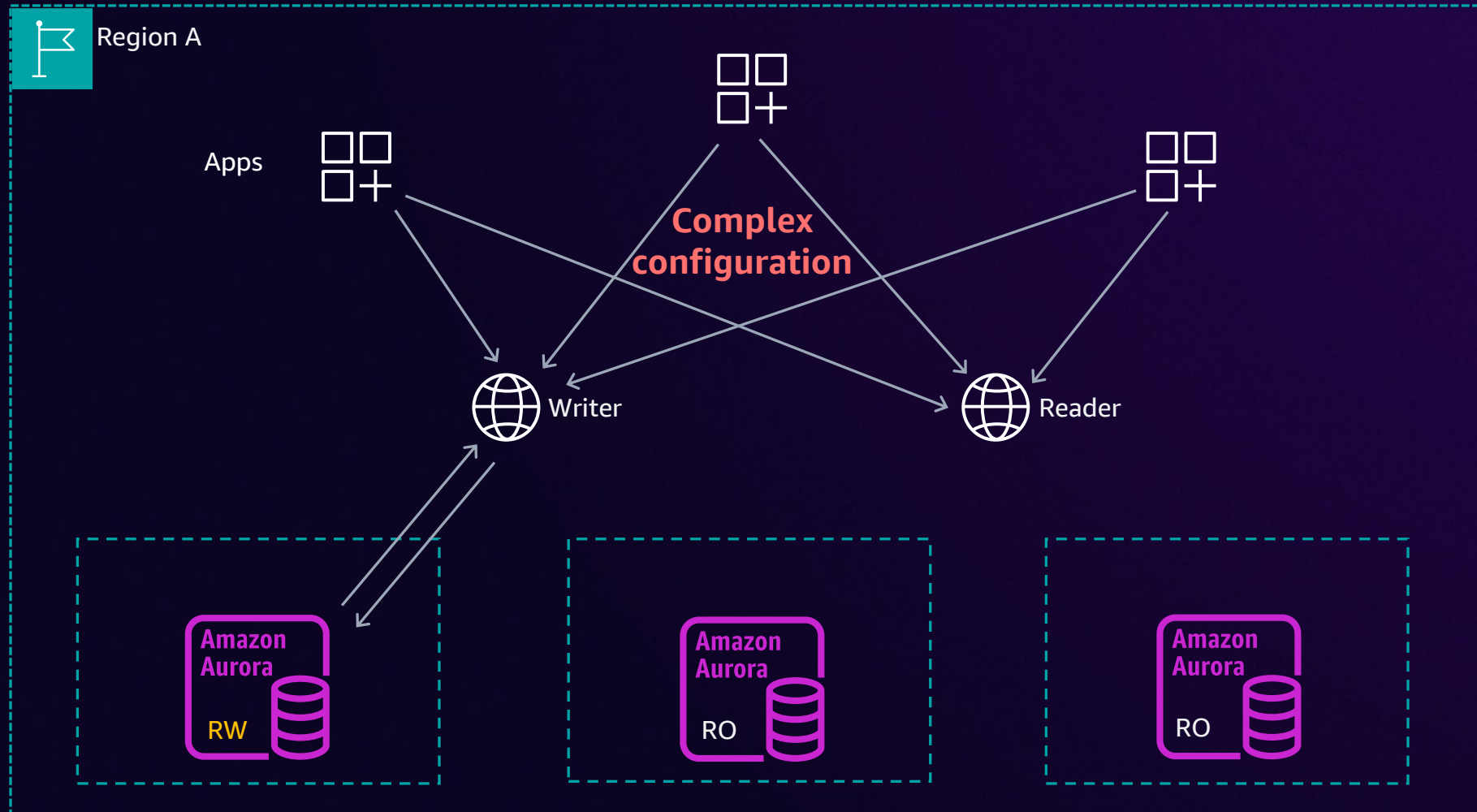
AWS advanced JDBC wrapper



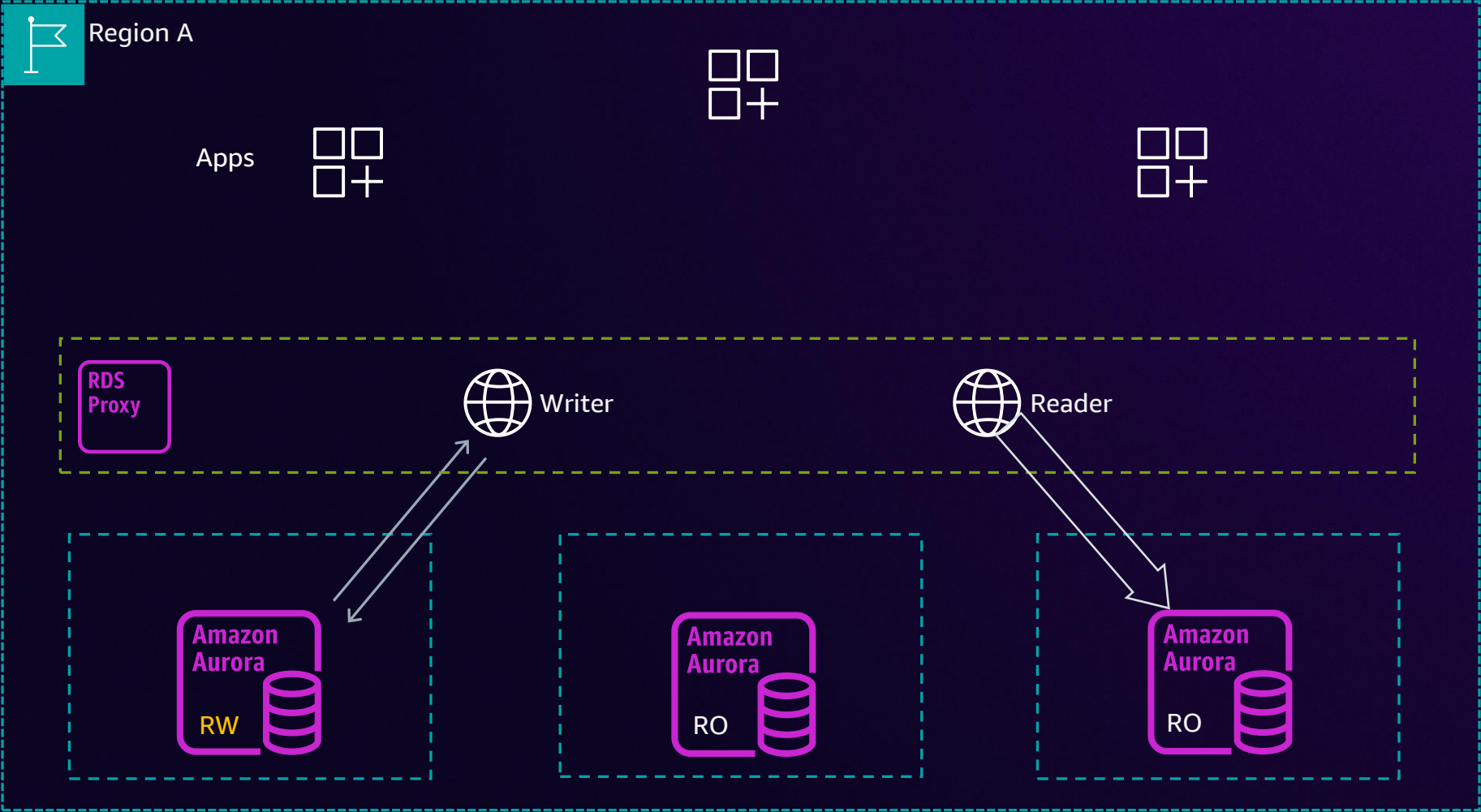
AWS advanced JDBC wrapper



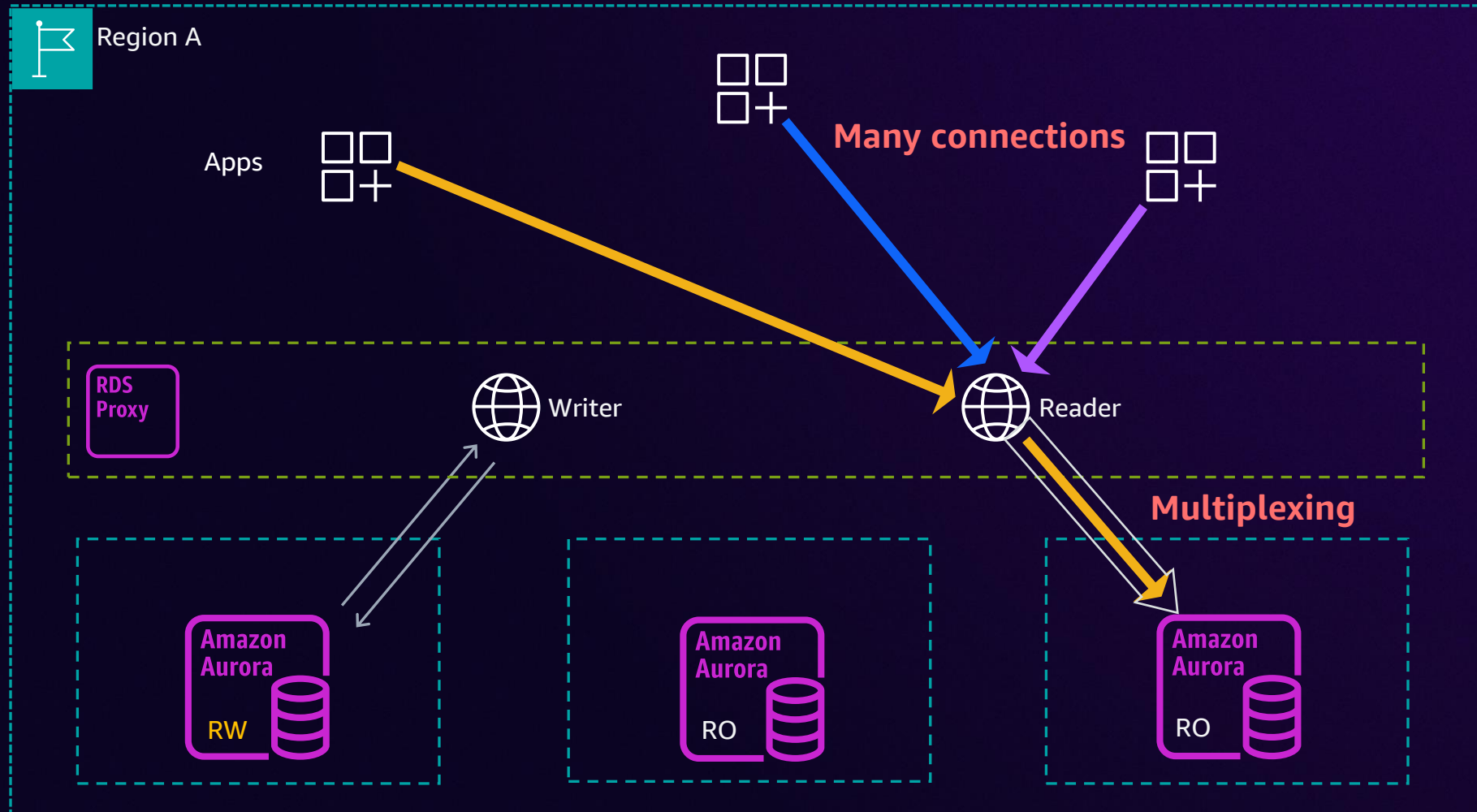
Amazon RDS proxy



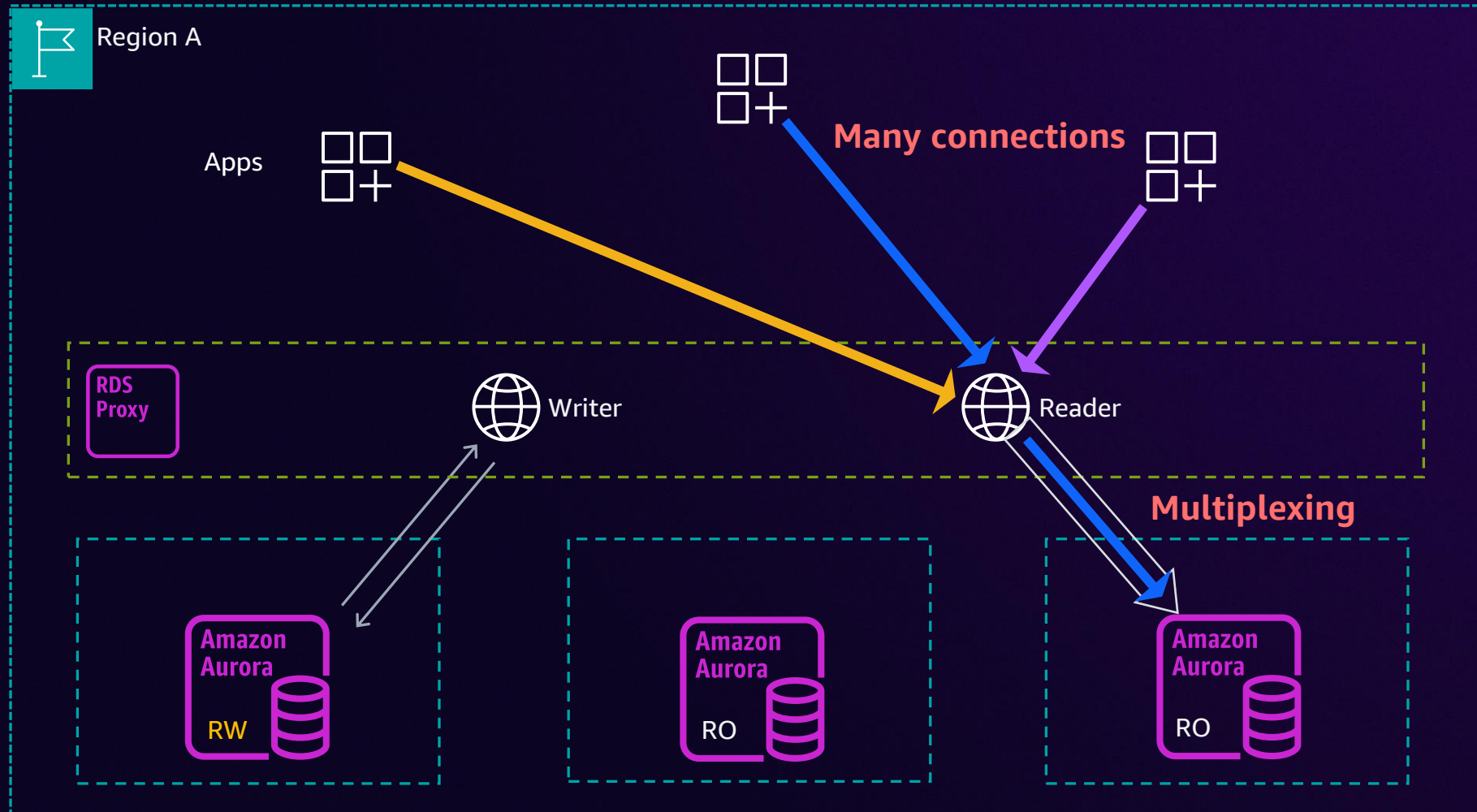
Amazon RDS proxy



Amazon RDS proxy

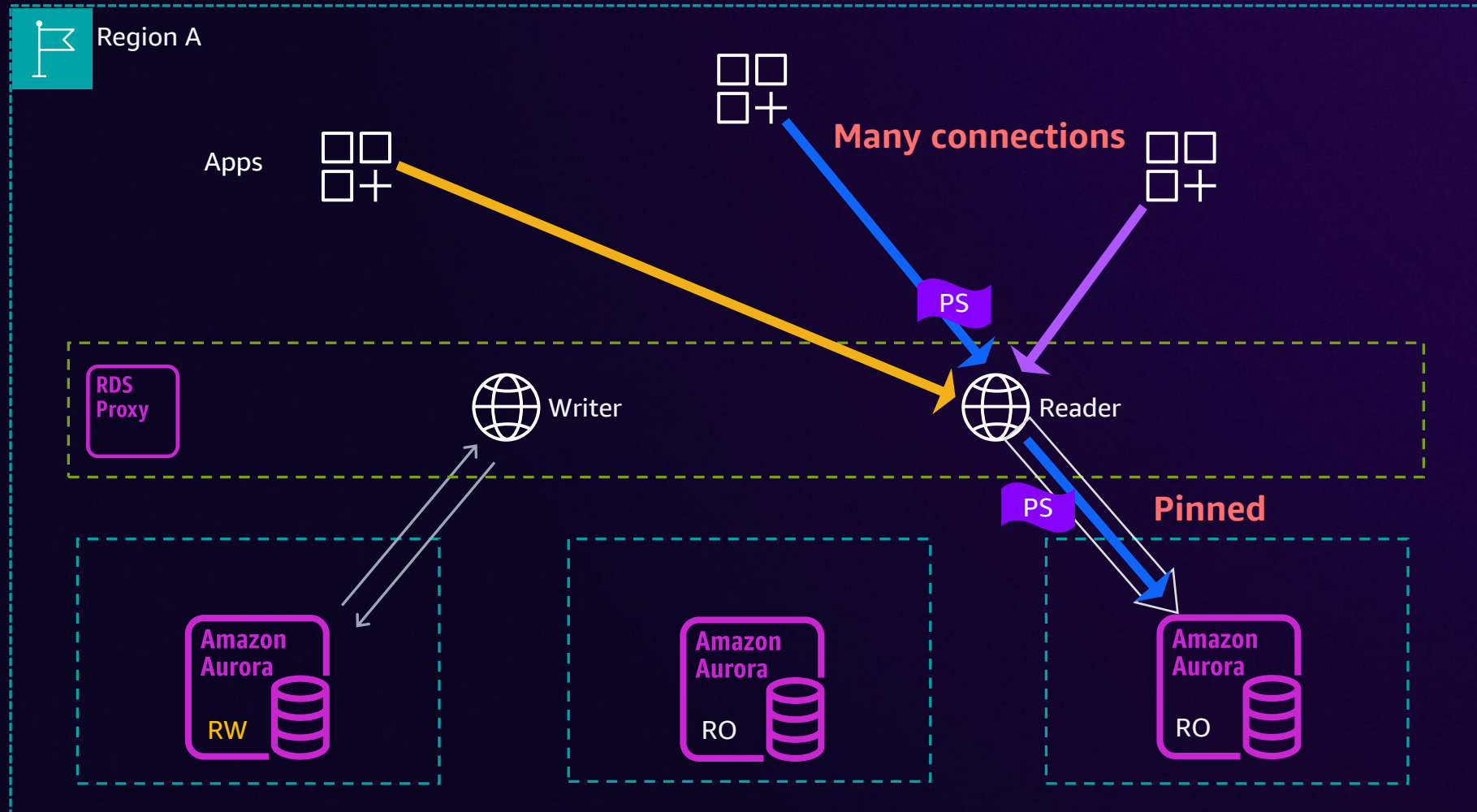


Amazon RDS proxy



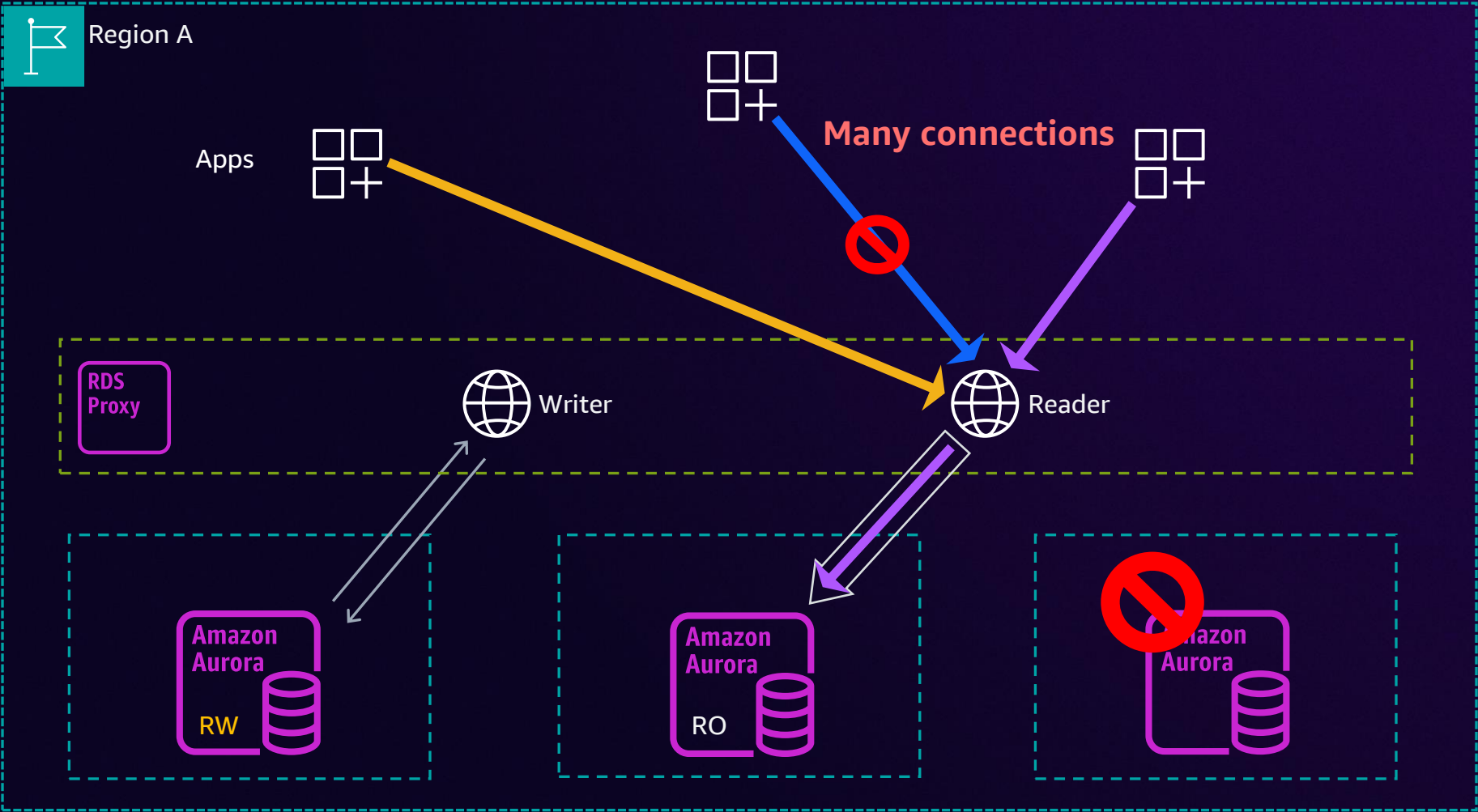
Amazon RDS proxy

AWS CloudWatch: DatabaseConnectionsCurrentlySessionPinned



Amazon RDS proxy

AWS CloudWatch: DatabaseConnectionsCurrentlySessionPinned

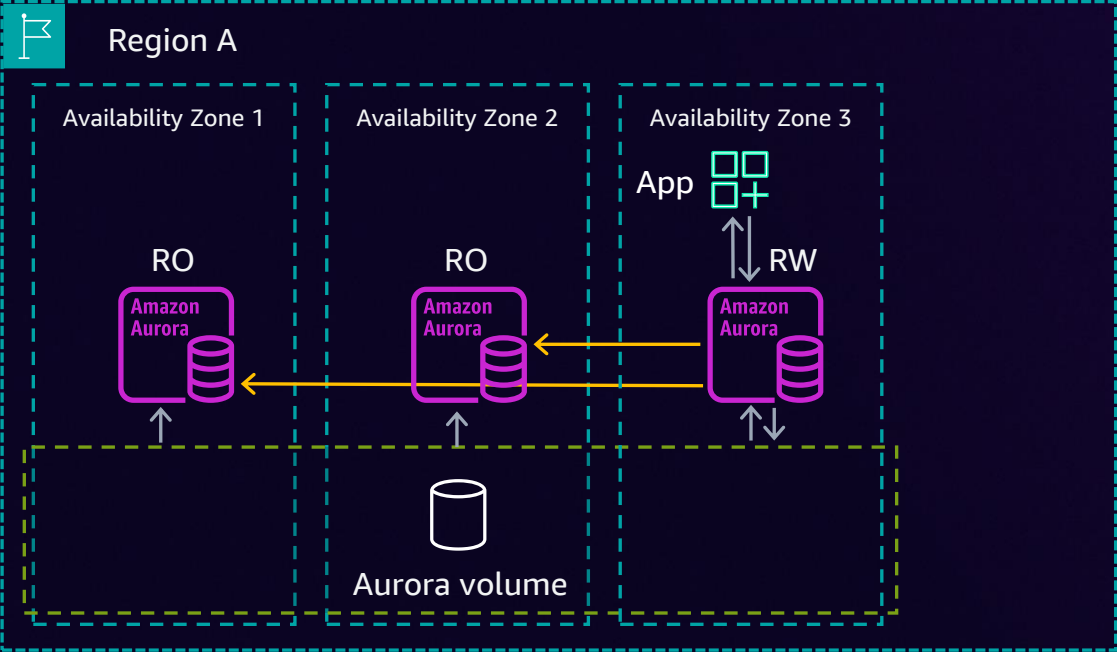


Global resilience

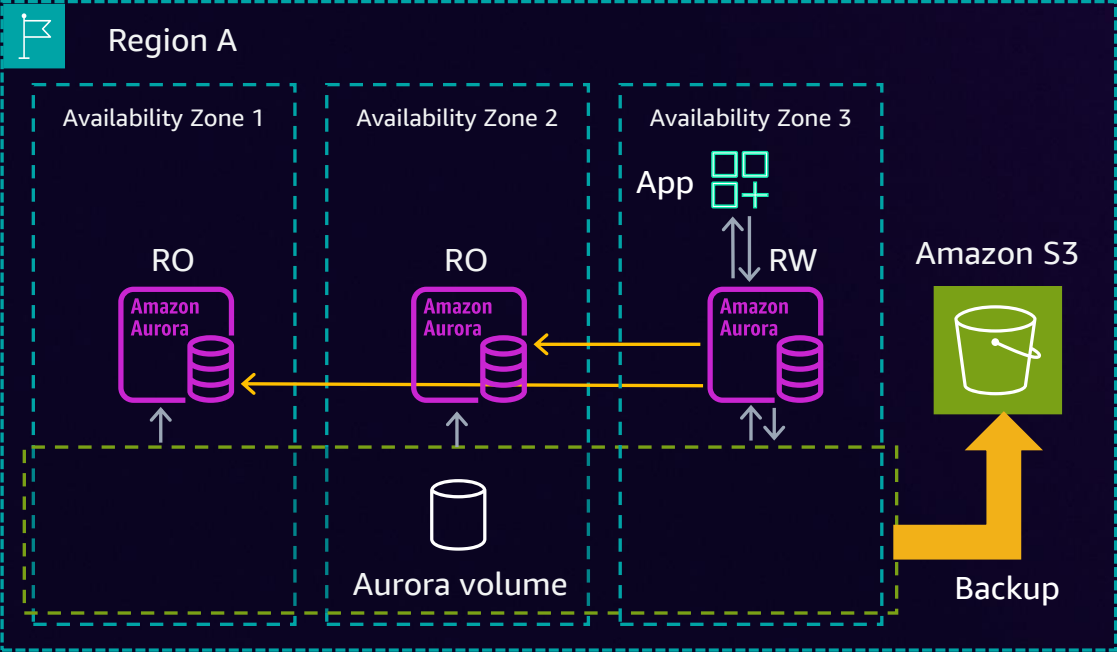


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Cross-Region backups

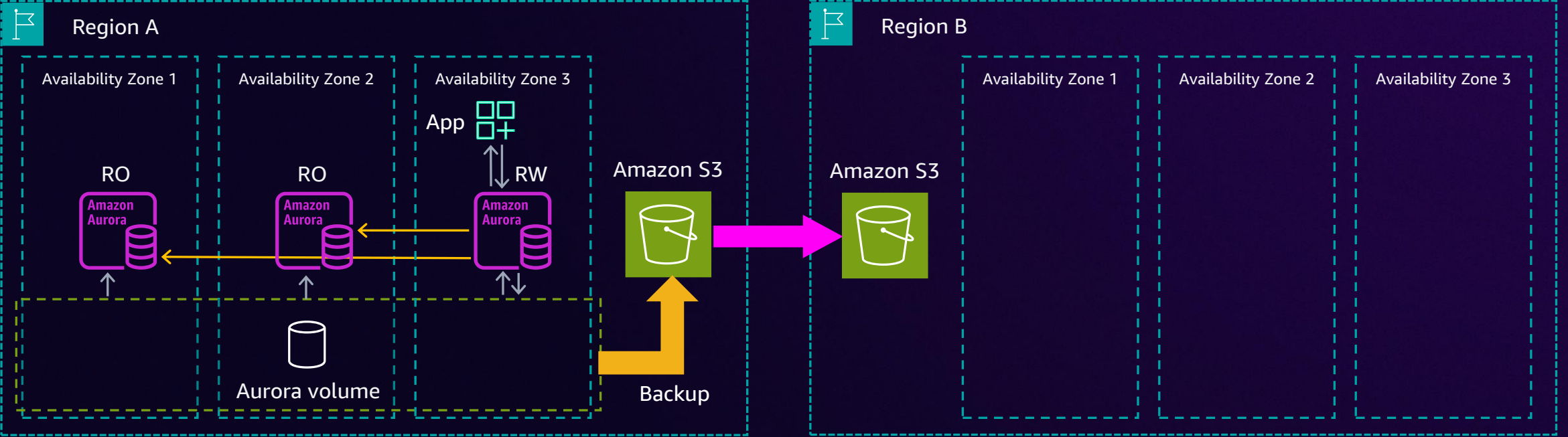


Cross-Region backups



**create-db-cluster-snapshot
(hourly)**

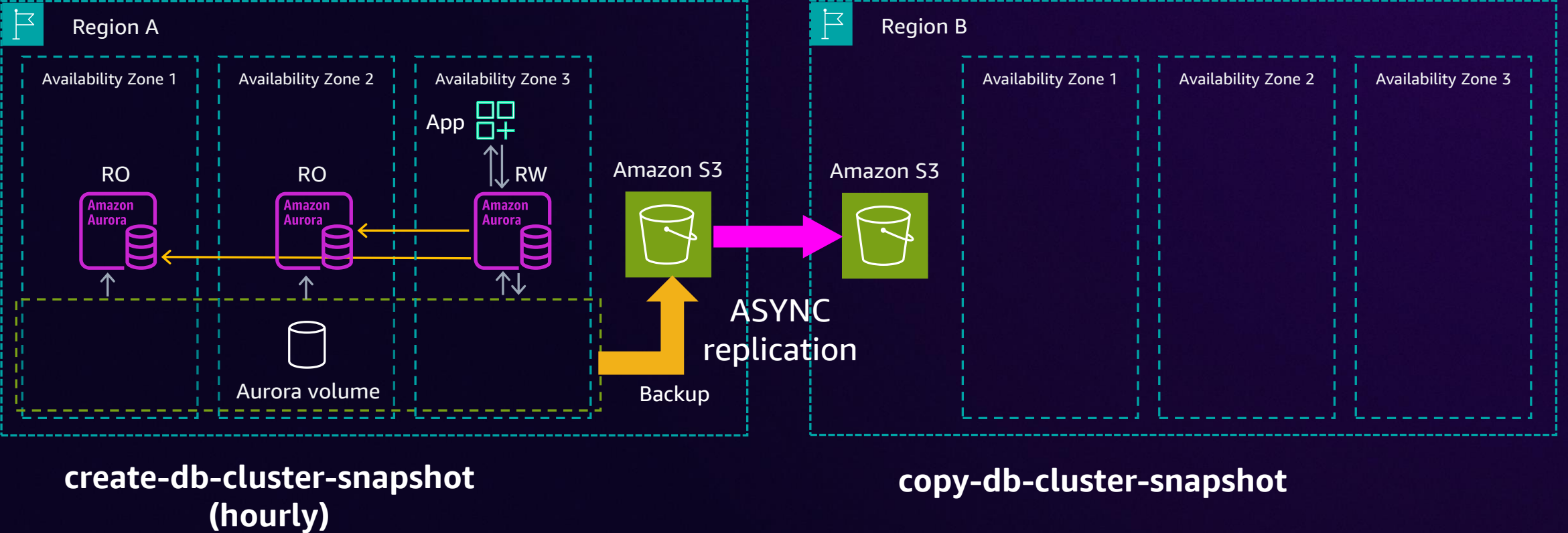
Cross-Region backups



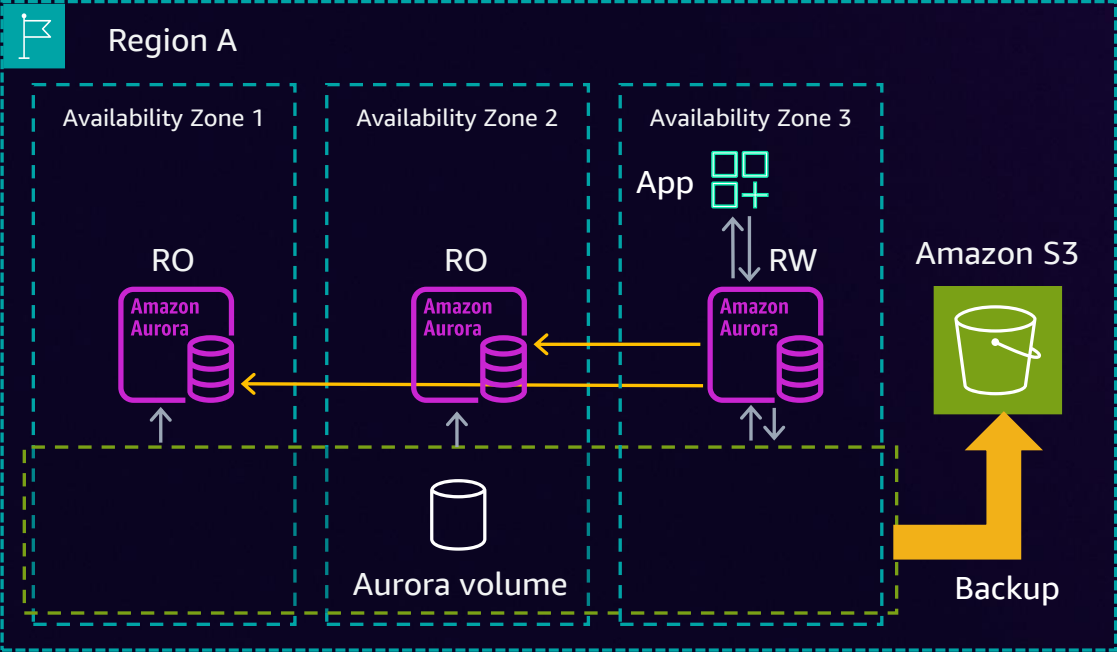
**create-db-cluster-snapshot
(hourly)**

copy-db-cluster-snapshot

Cross-Region backups



Cross-Region backups

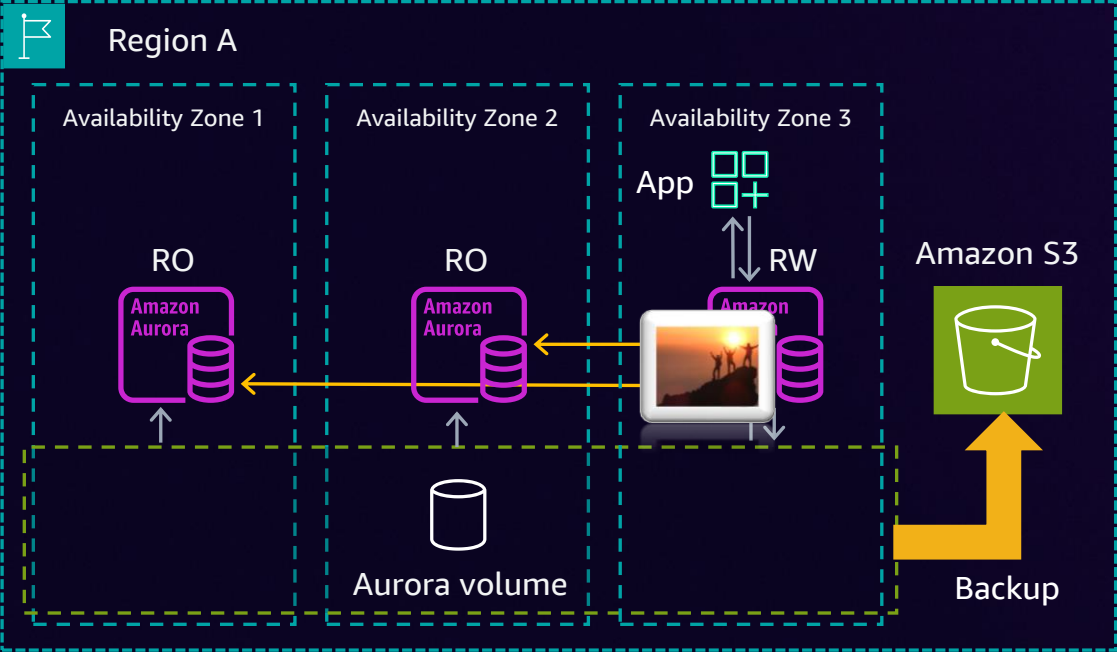


**create-db-cluster-snapshot
(hourly)**



copy-db-cluster-snapshot

Cross-Region backups

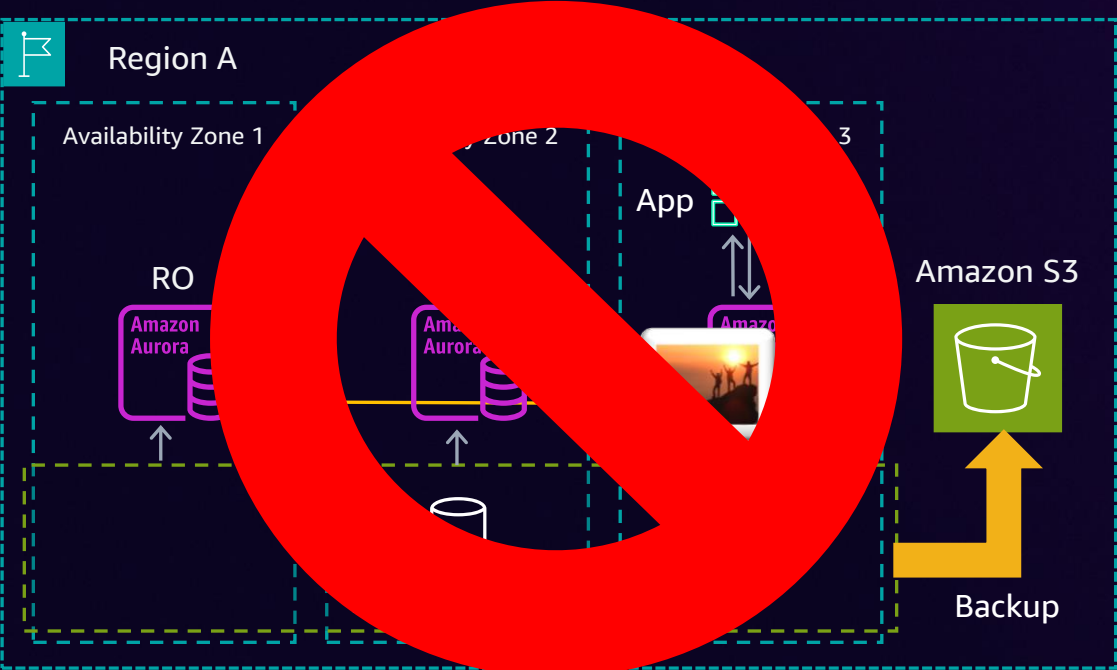


**create-db-cluster-snapshot
(hourly)**



copy-db-cluster-snapshot

Cross-Region backups

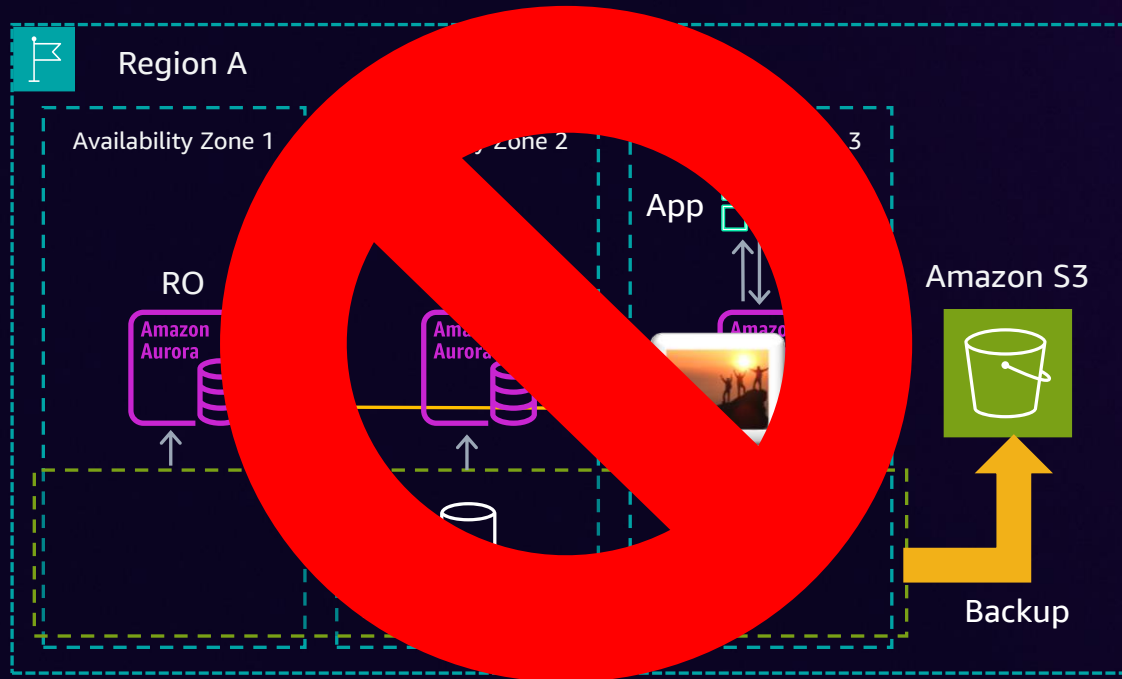


**create-db-cluster-snapshot
(hourly)**



copy-db-cluster-snapshot

Cross-Region backups



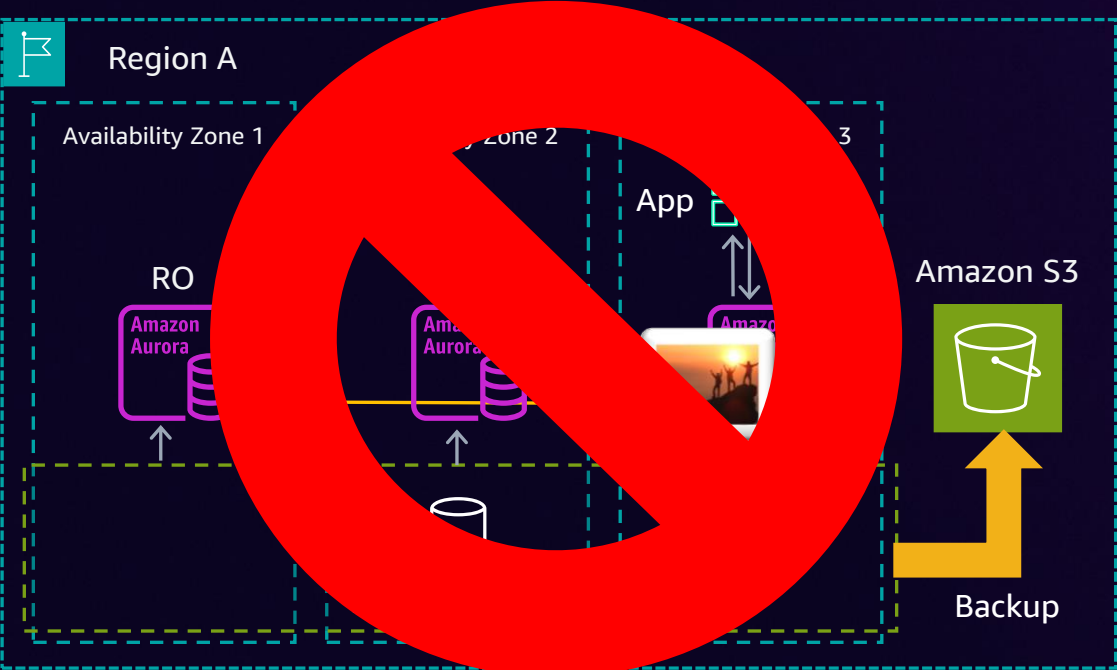
**create-db-cluster-snapshot
(hourly)**



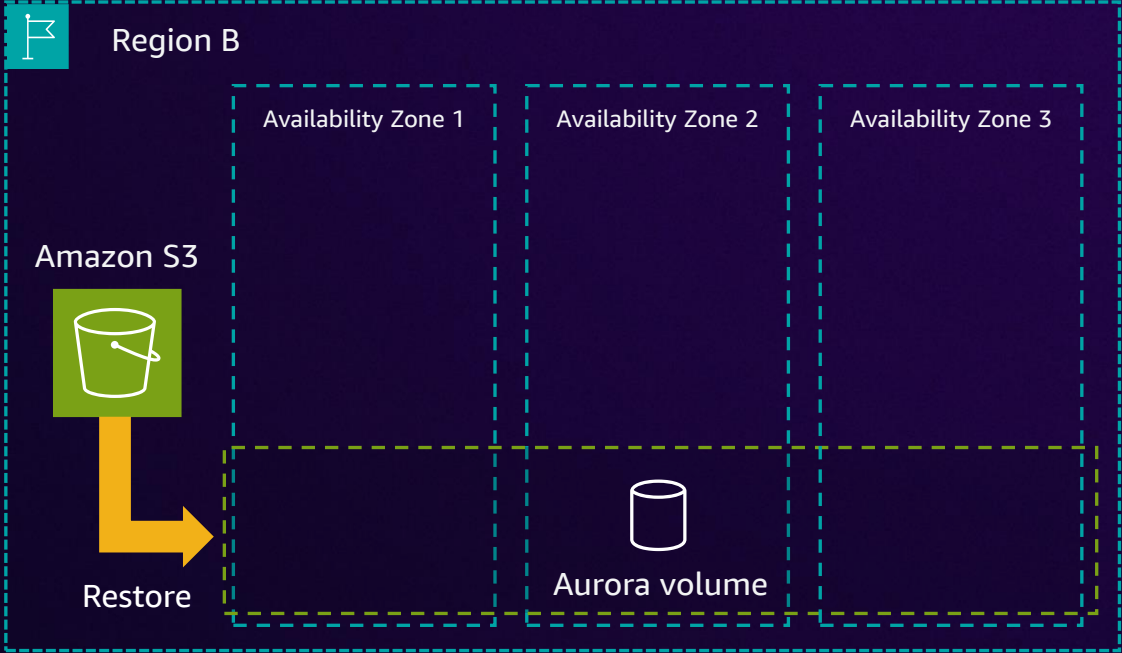
copy-db-cluster-snapshot

RPO \approx 10–70 minutes for replication lag

Cross-Region backups



**create-db-cluster-snapshot
(hourly)**

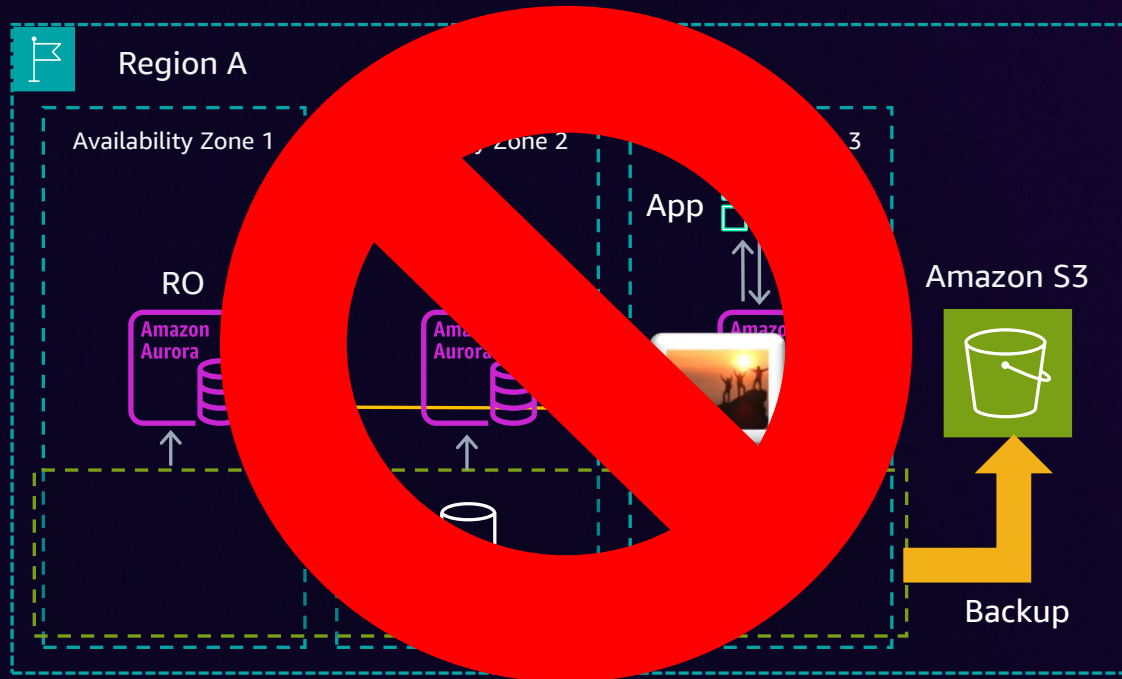


**copy-db-cluster-snapshot
restore-db-cluster-from-snapshot**

RPO \approx 10–70 minutes for replication lag

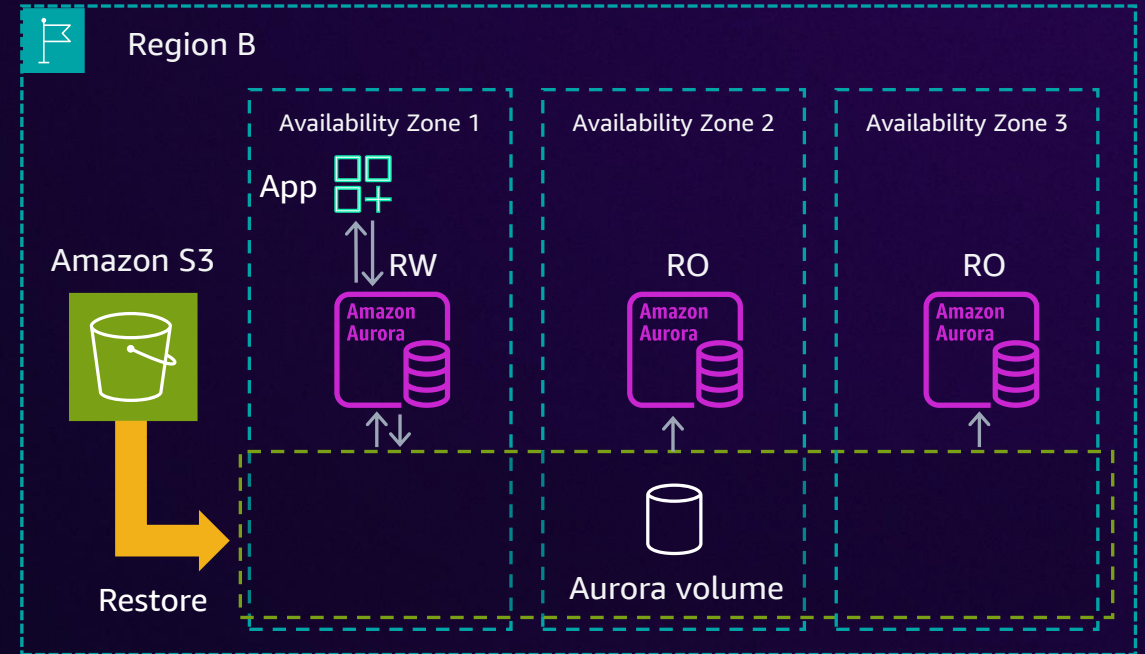


Cross-Region backups



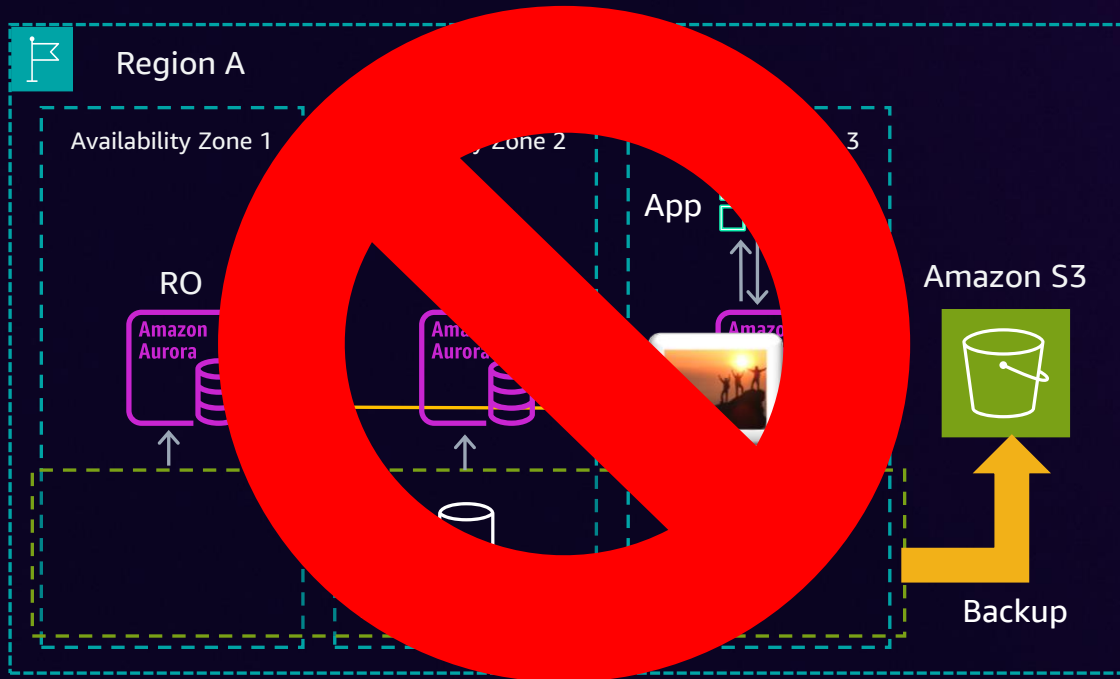
**create-db-cluster-snapshot
(hourly)**

RPO \approx 10–70 minutes for replication lag



**copy-db-cluster-snapshot
restore-db-cluster-from-snapshot
create-db-instance**

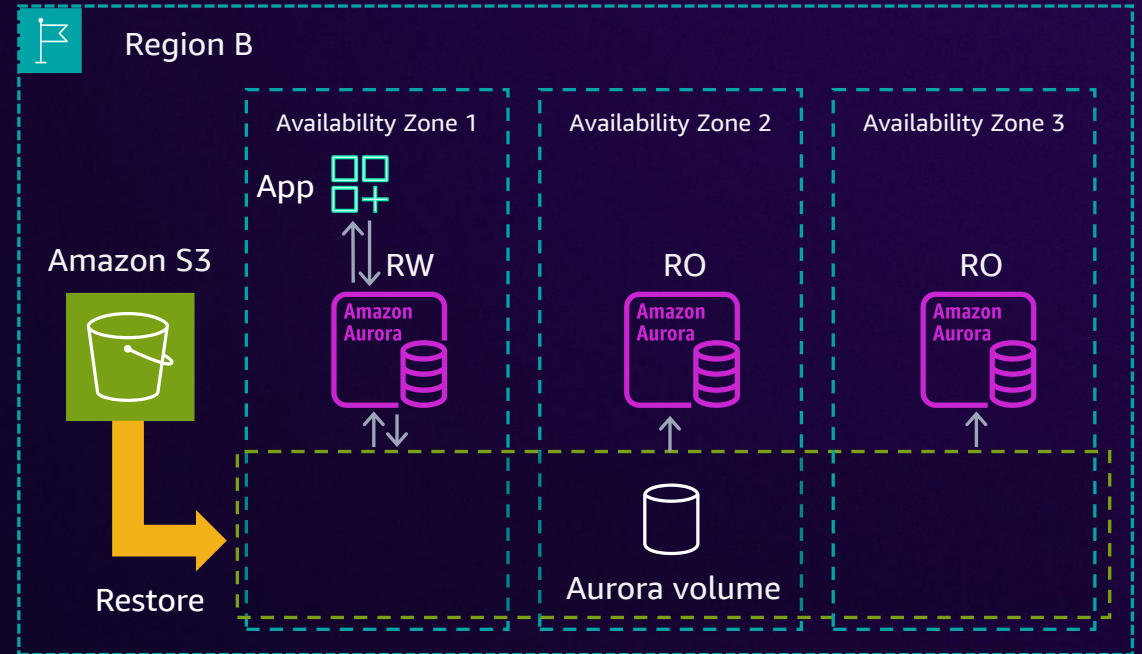
Cross-Region backups



**create-db-cluster-snapshot
(hourly)**

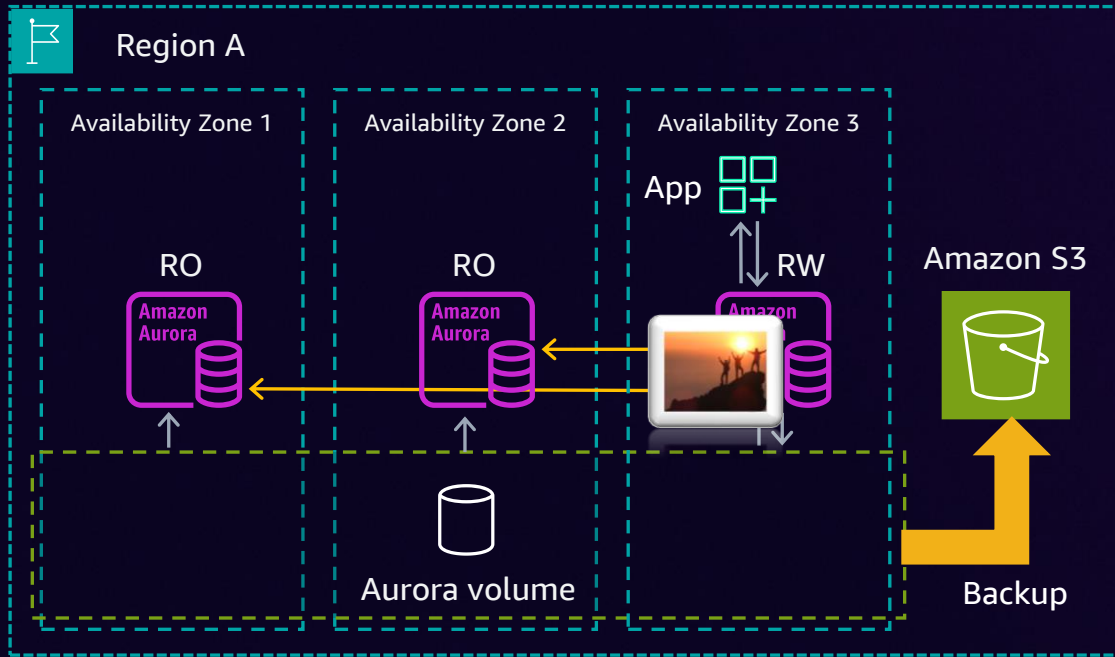
RTO \approx 60+ minutes

RPO \approx 10–70 minutes for replication lag



**copy-db-cluster-snapshot
restore-db-cluster-from-snapshot
create-db-instance**

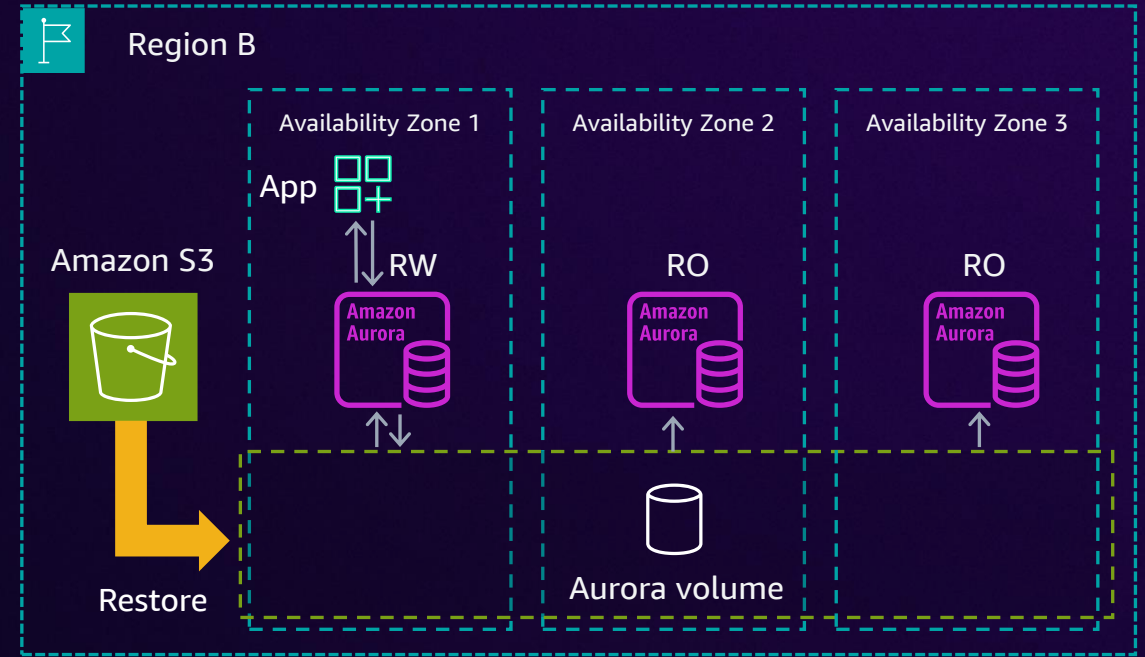
Cross-Region backups



**create-db-cluster-snapshot
(hourly)**

RTO \approx 60+ minutes

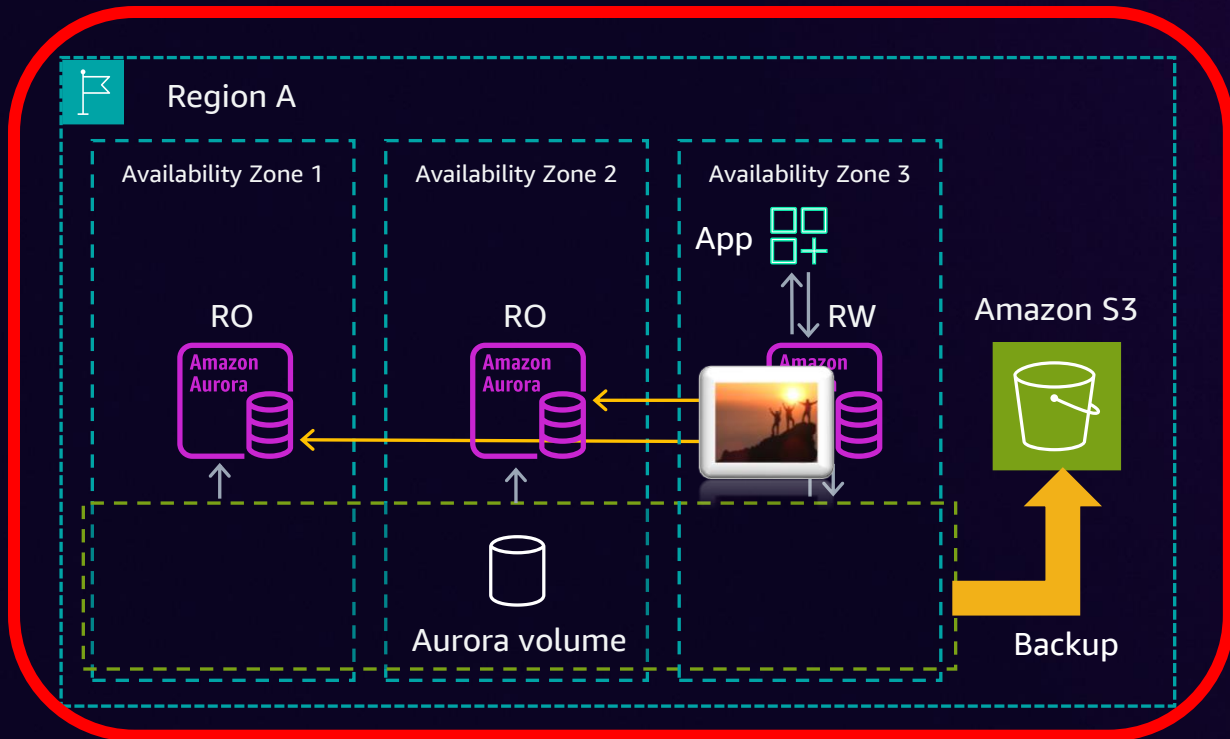
RPO \approx 10–70 minutes for replication lag



**copy-db-cluster-snapshot
restore-db-cluster-from-snapshot
create-db-instance**

Cross-Region backups

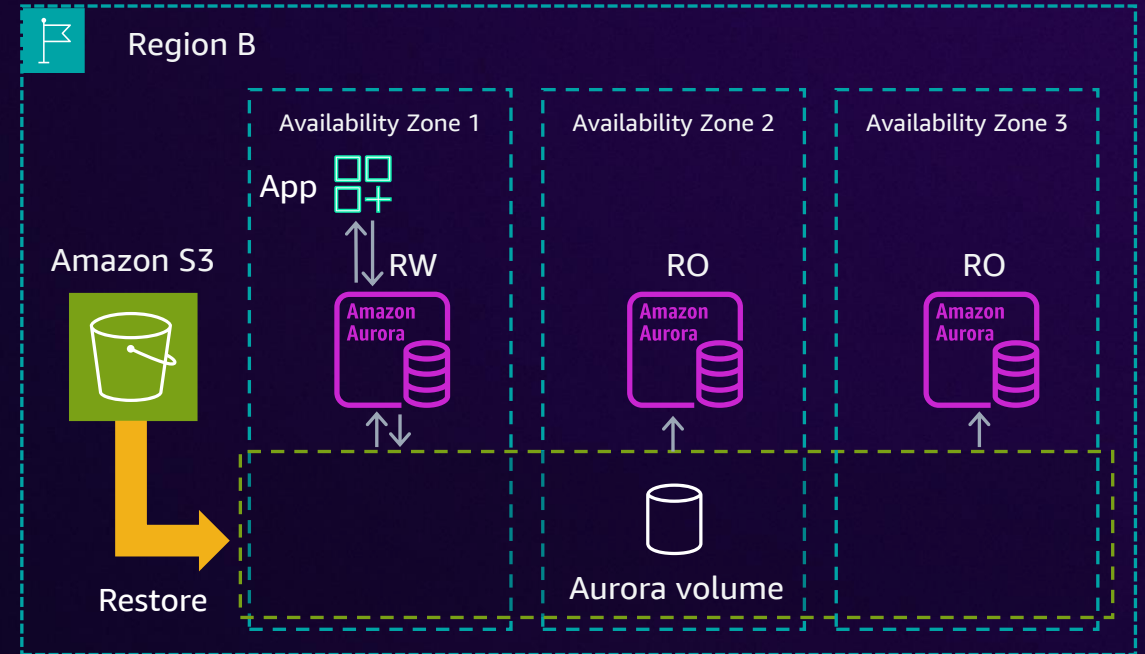
Network partition



**create-db-cluster-snapshot
(hourly)**

RTO \approx 60+ minutes

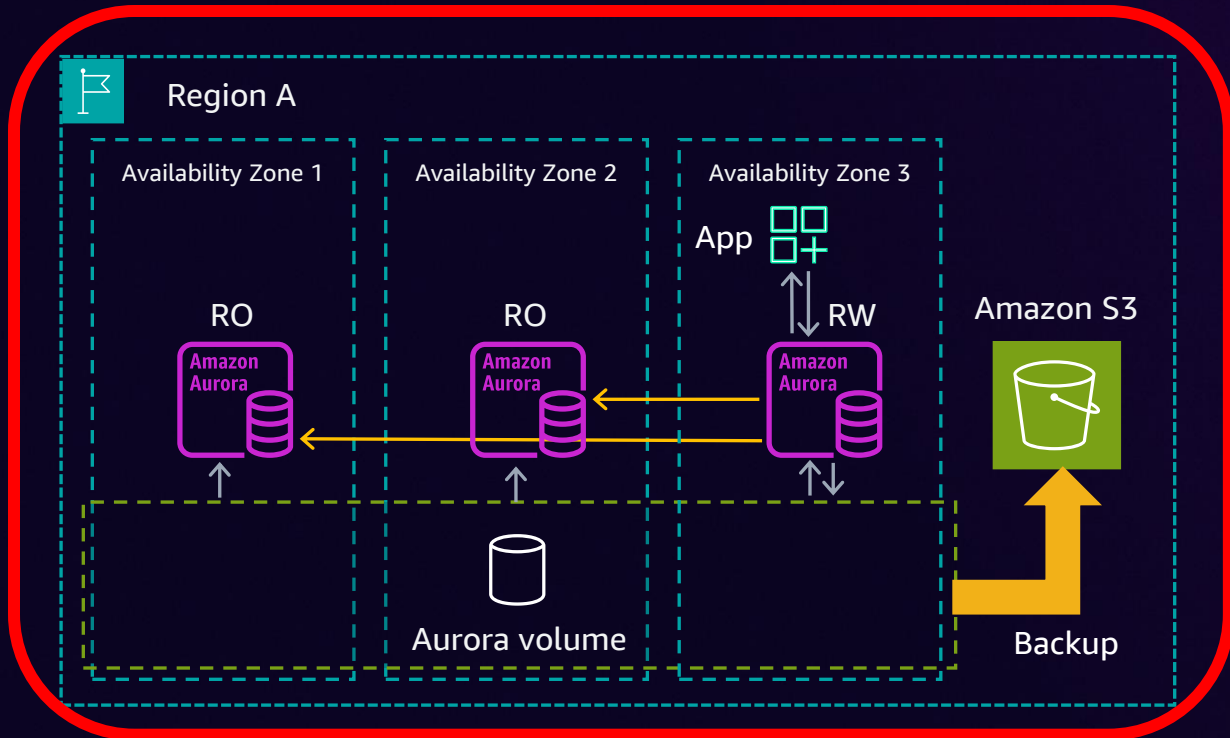
RPO \approx 10–70 minutes for replication lag



**copy-db-cluster-snapshot
restore-db-cluster-from-snapshot
create-db-instance**

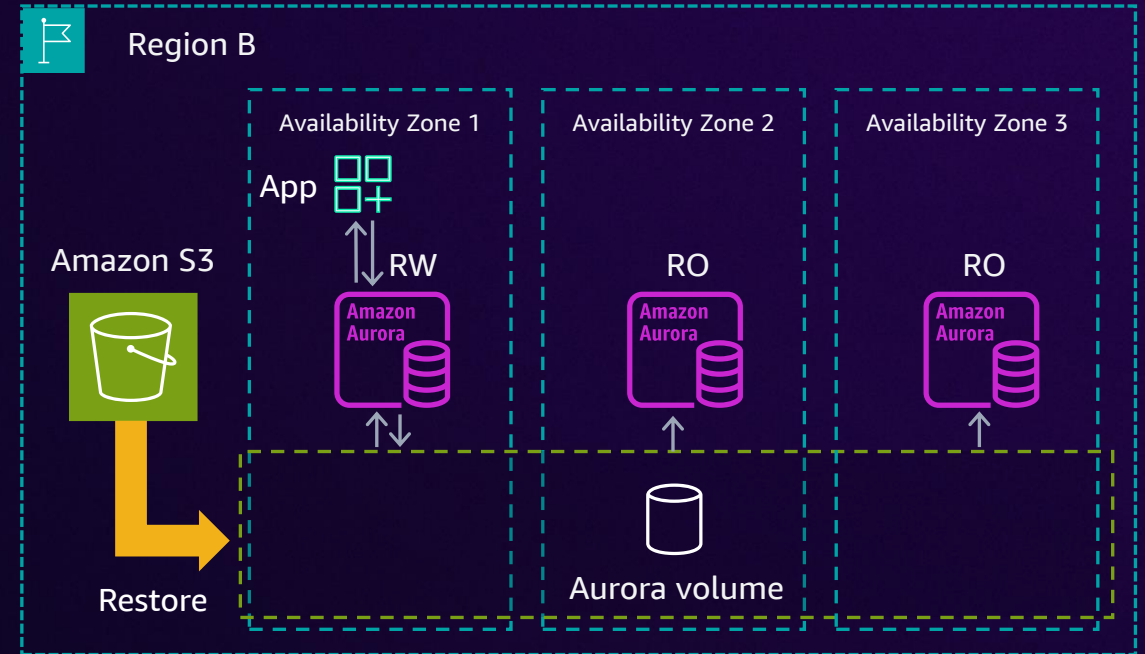
Cross-Region backups

Network partition



**create-db-cluster-snapshot
(hourly)**

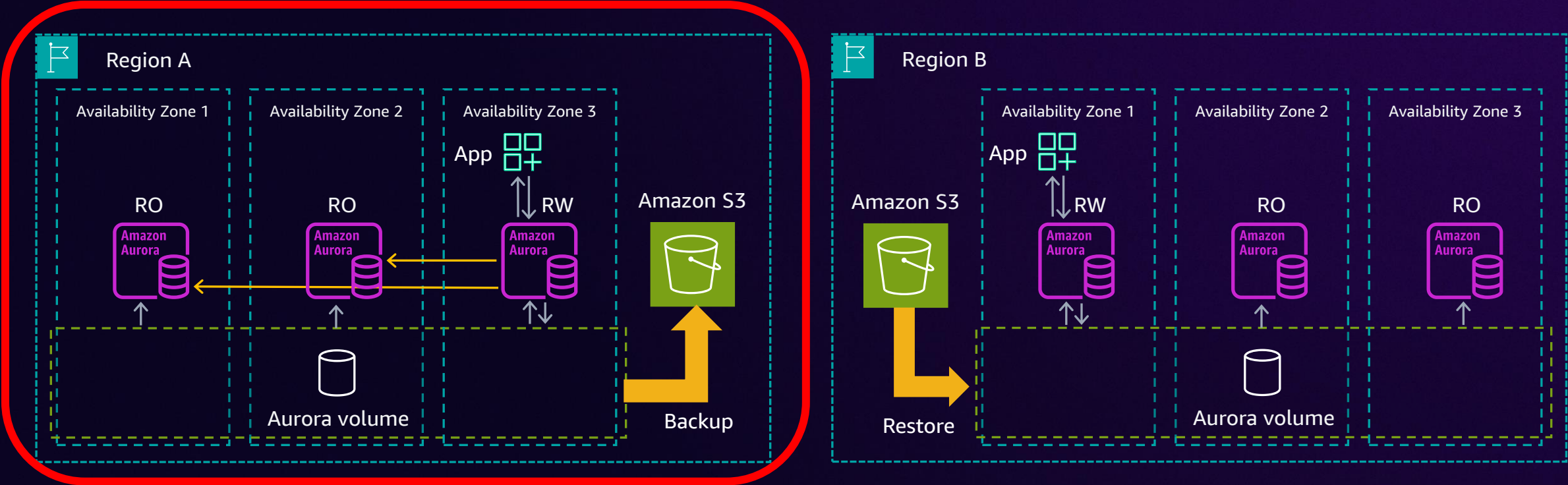
RTO \approx 60+ minutes



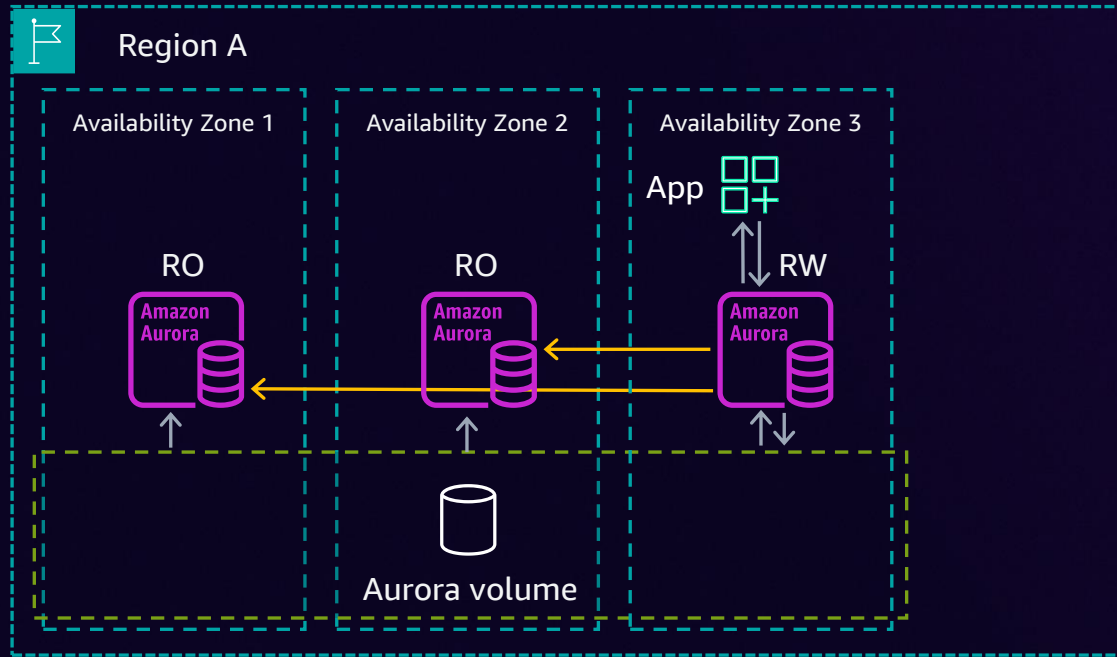
**copy-db-cluster-snapshot
restore-db-cluster-from-snapshot
create-db-instance**

Cross-Region backups

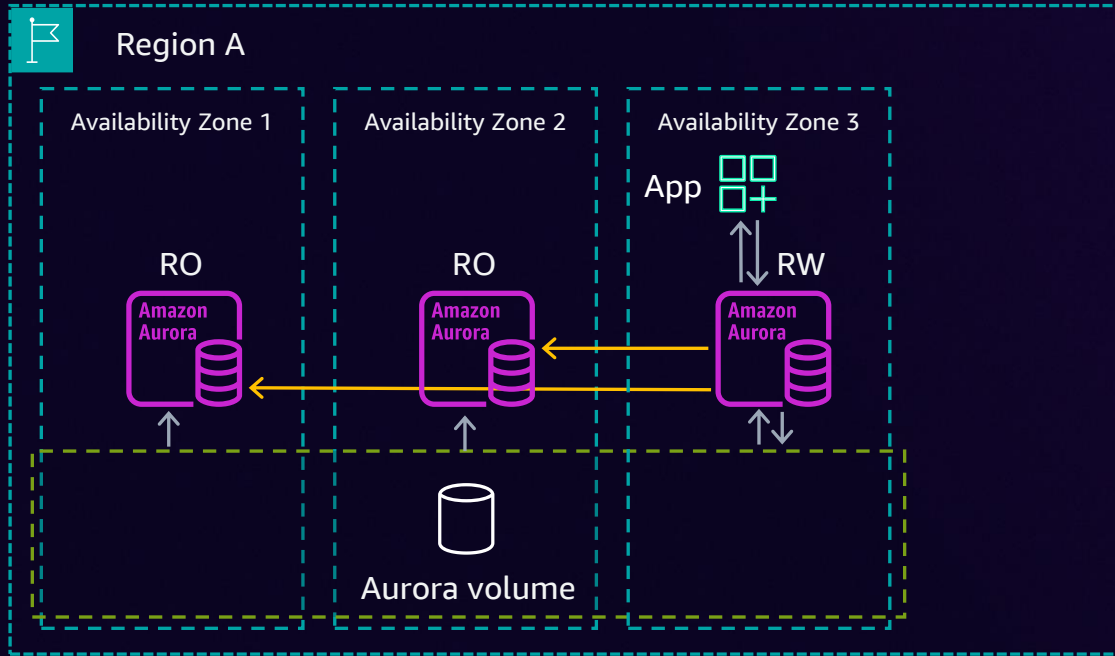
Network partition



Aurora global database – Storage only

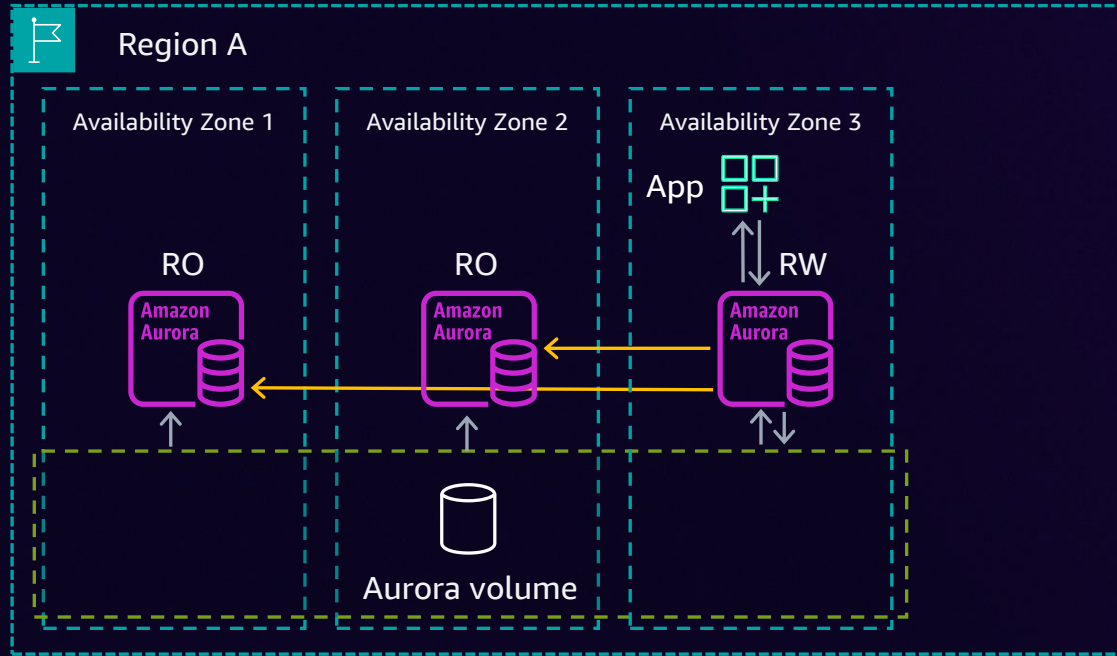


Aurora global database – Storage only



create-global-cluster

Aurora global database – Storage only

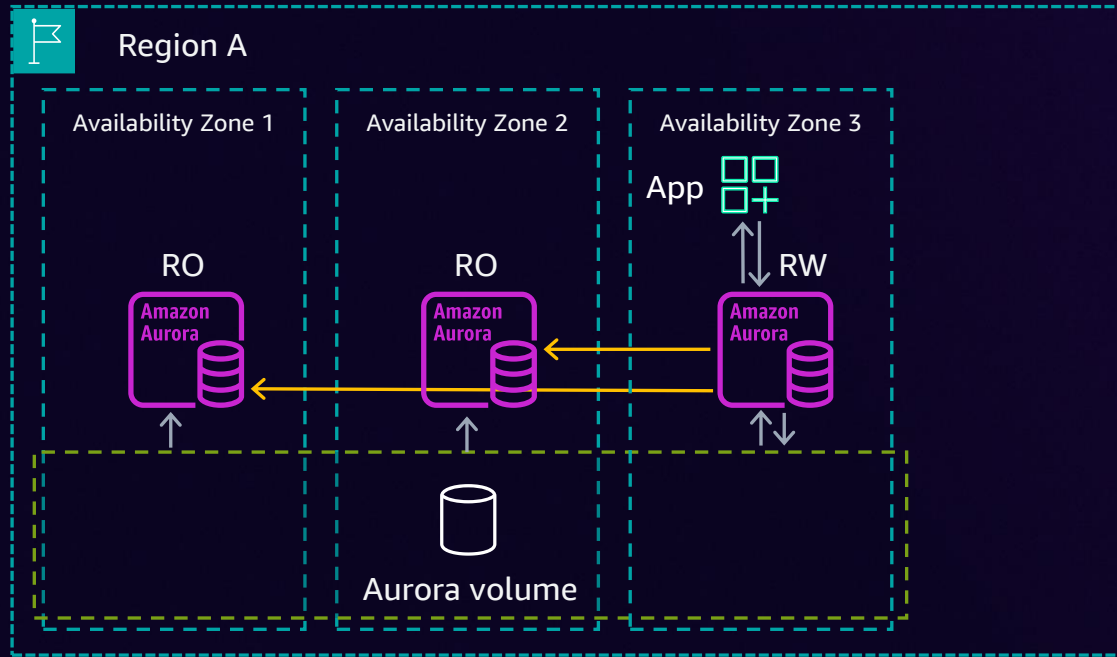


create-global-cluster



create-db-cluster

Aurora global database – Storage only

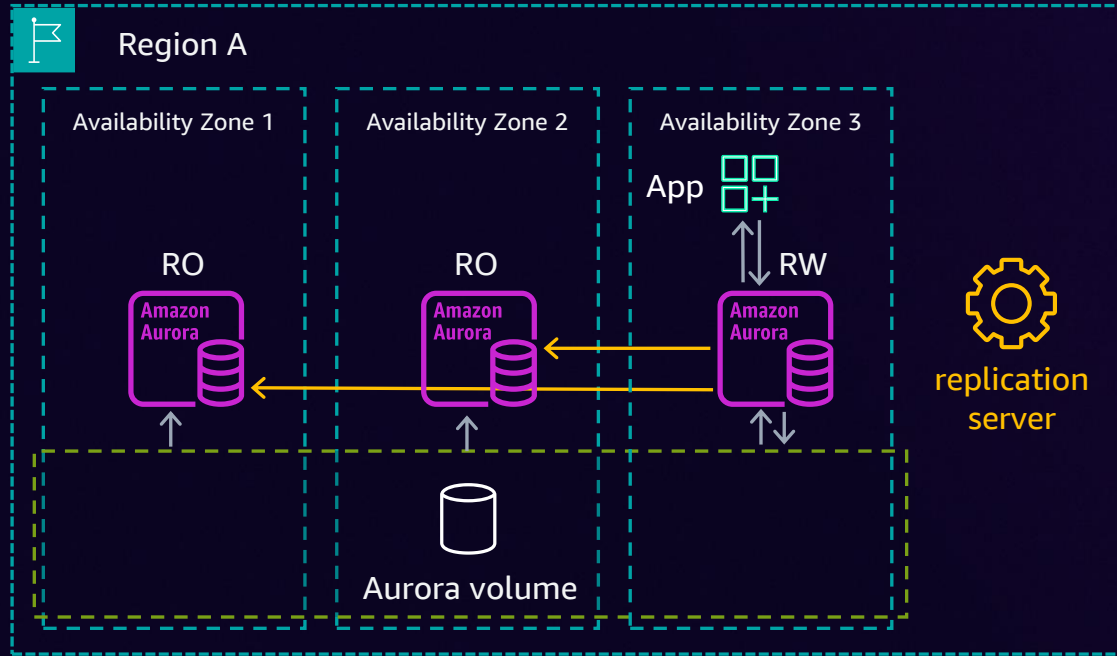


create-global-cluster



create-db-cluster

Aurora global database – Storage only

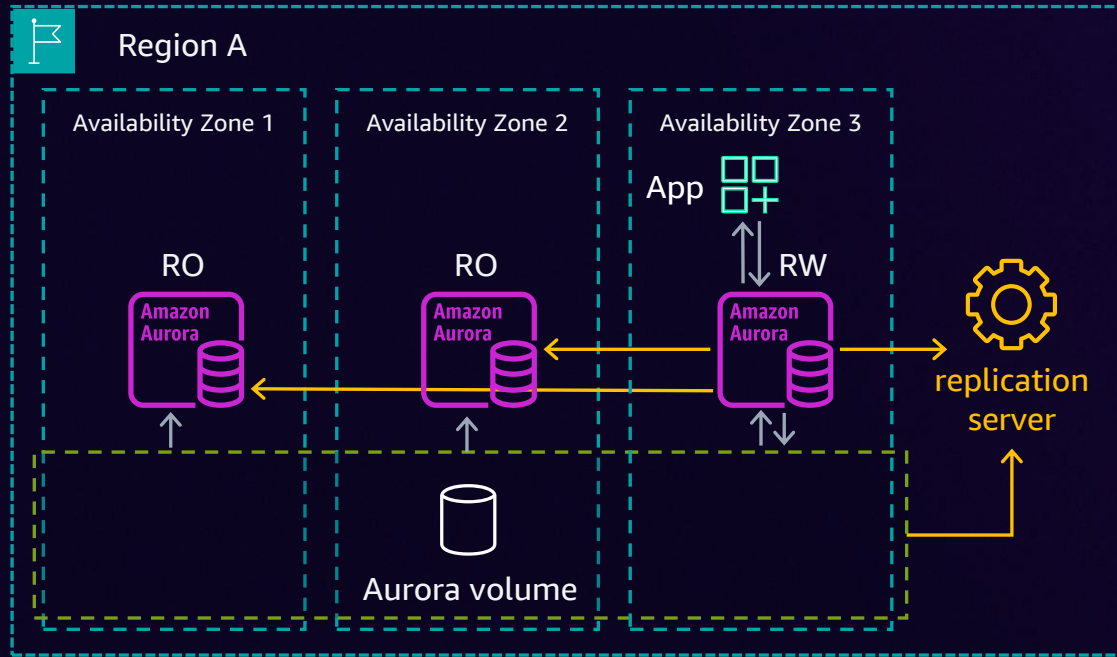


create-global-cluster



create-db-cluster

Aurora global database – Storage only

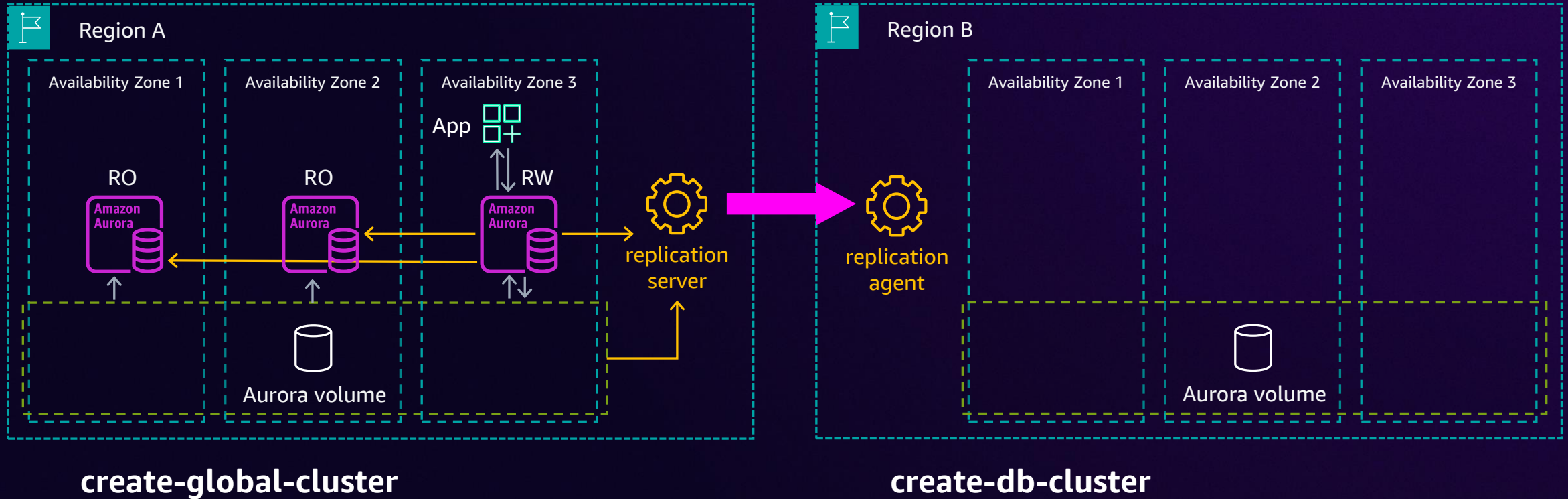


create-global-cluster

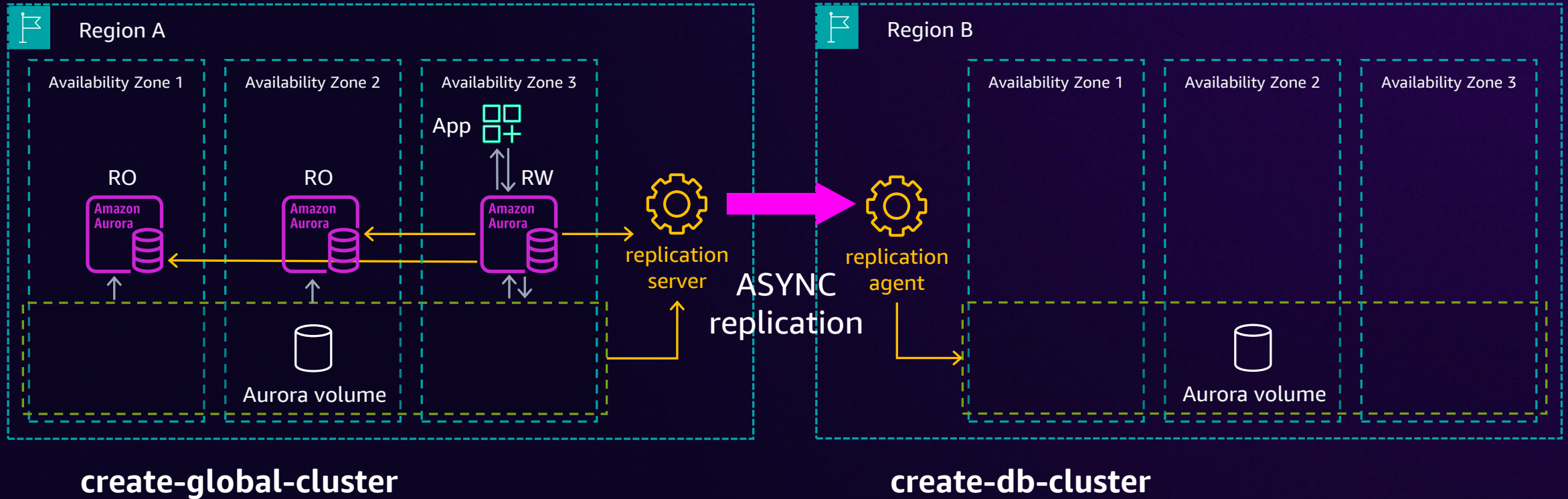


create-db-cluster

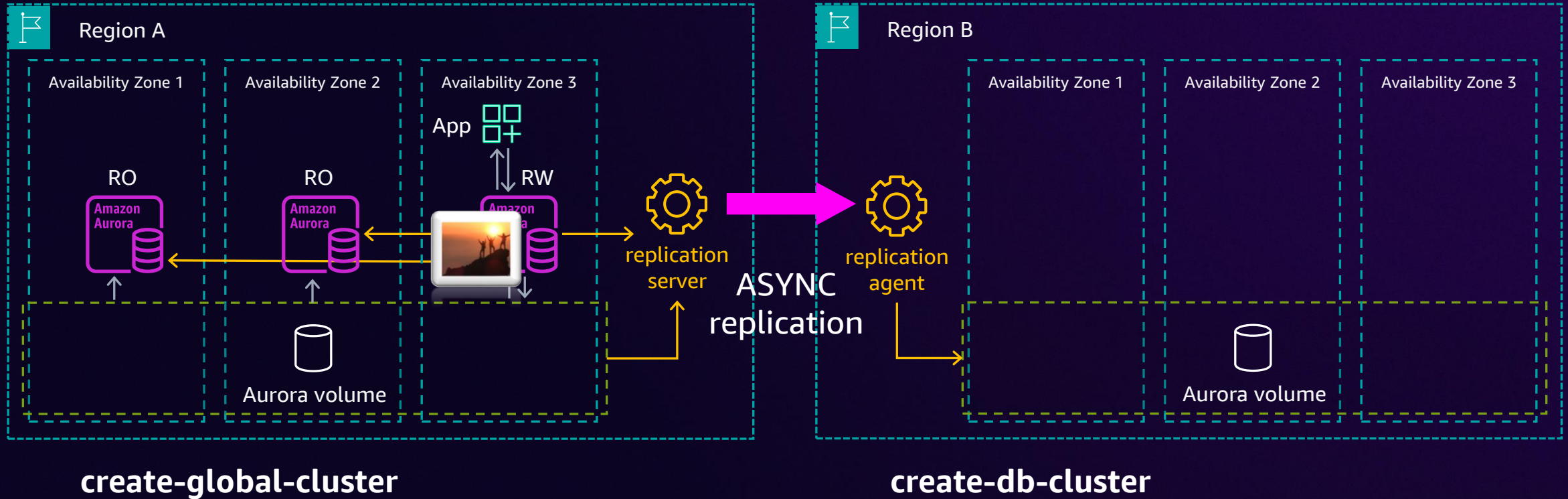
Aurora global database – Storage only



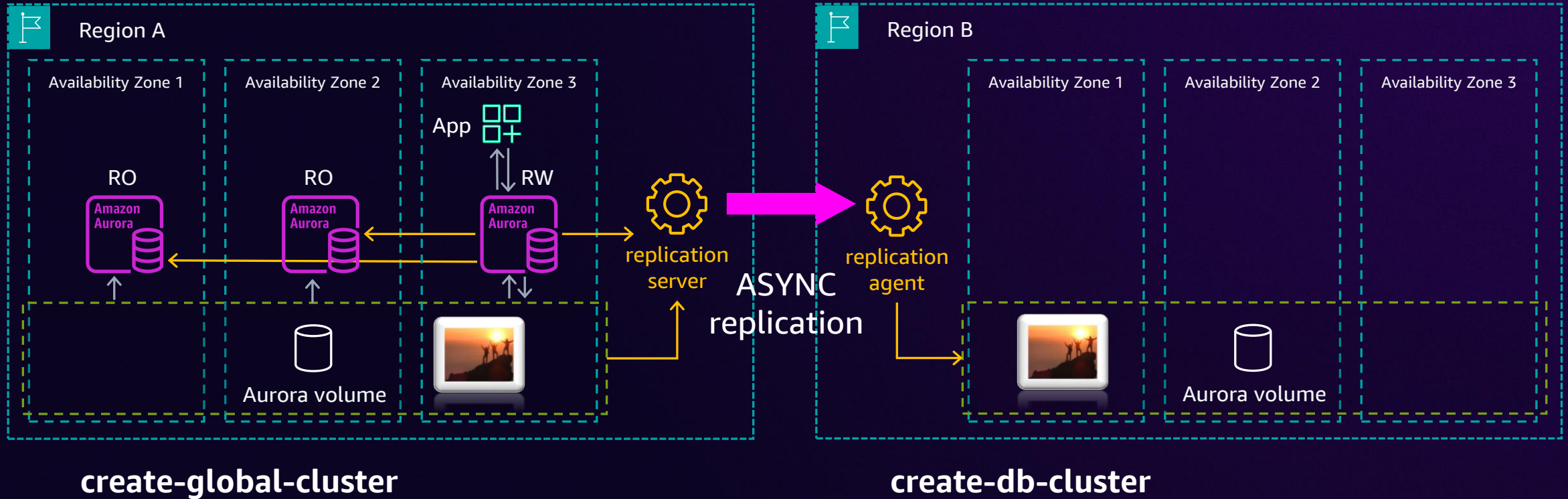
Aurora global database – Storage only



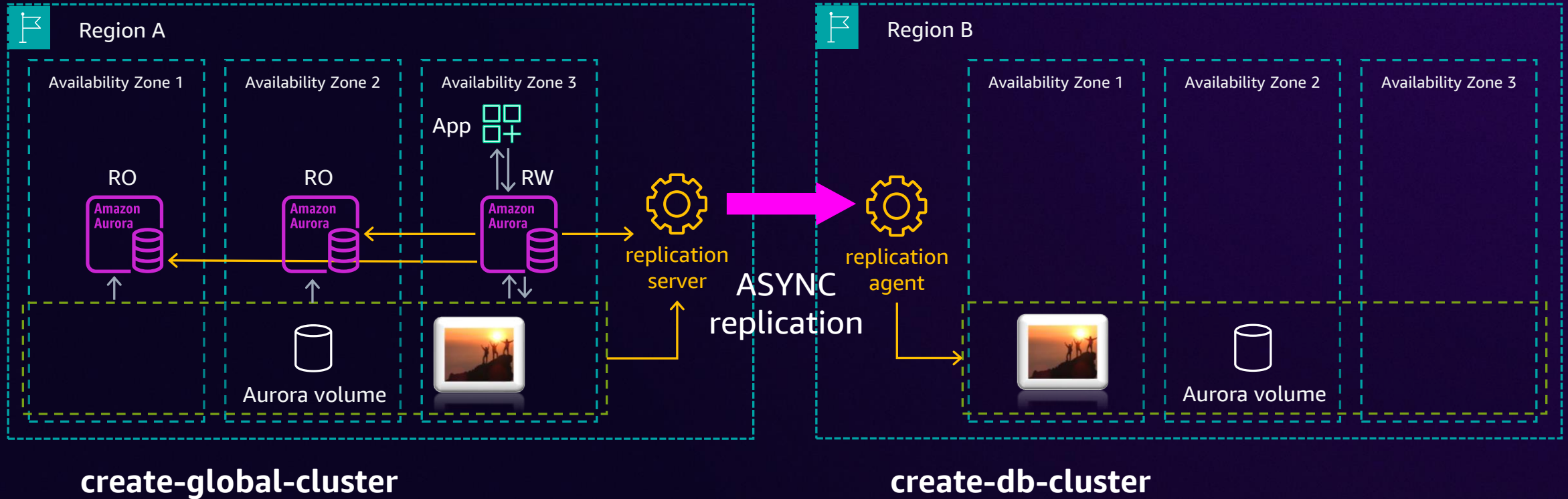
Aurora global database – Storage only



Aurora global database – Storage only

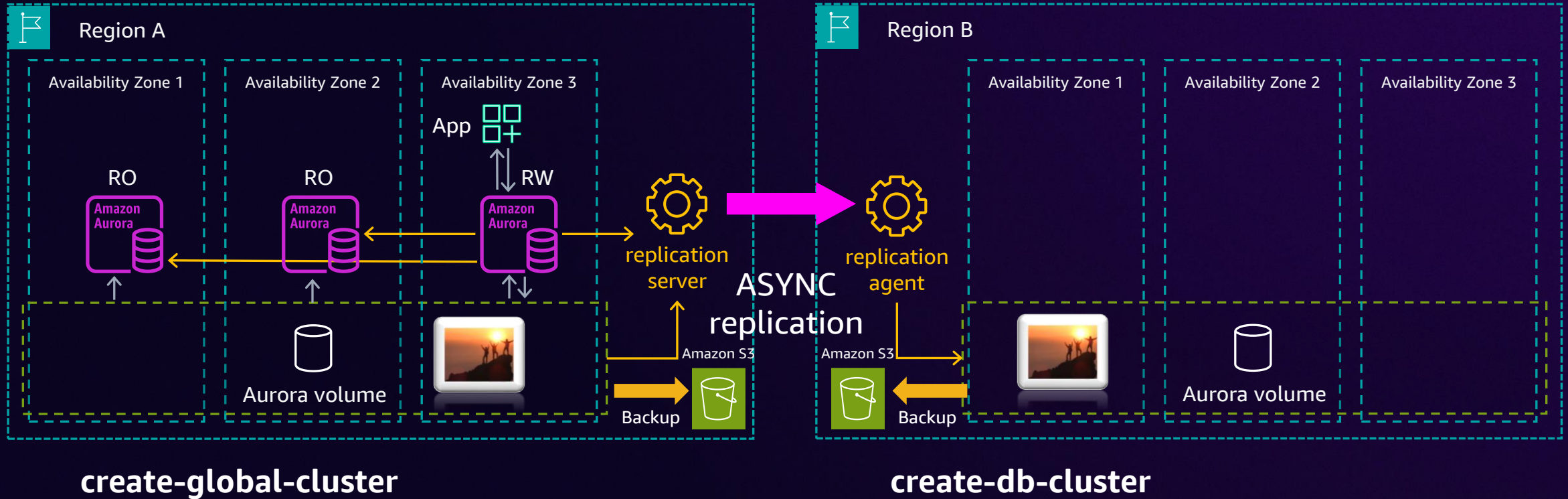


Aurora global database – Storage only



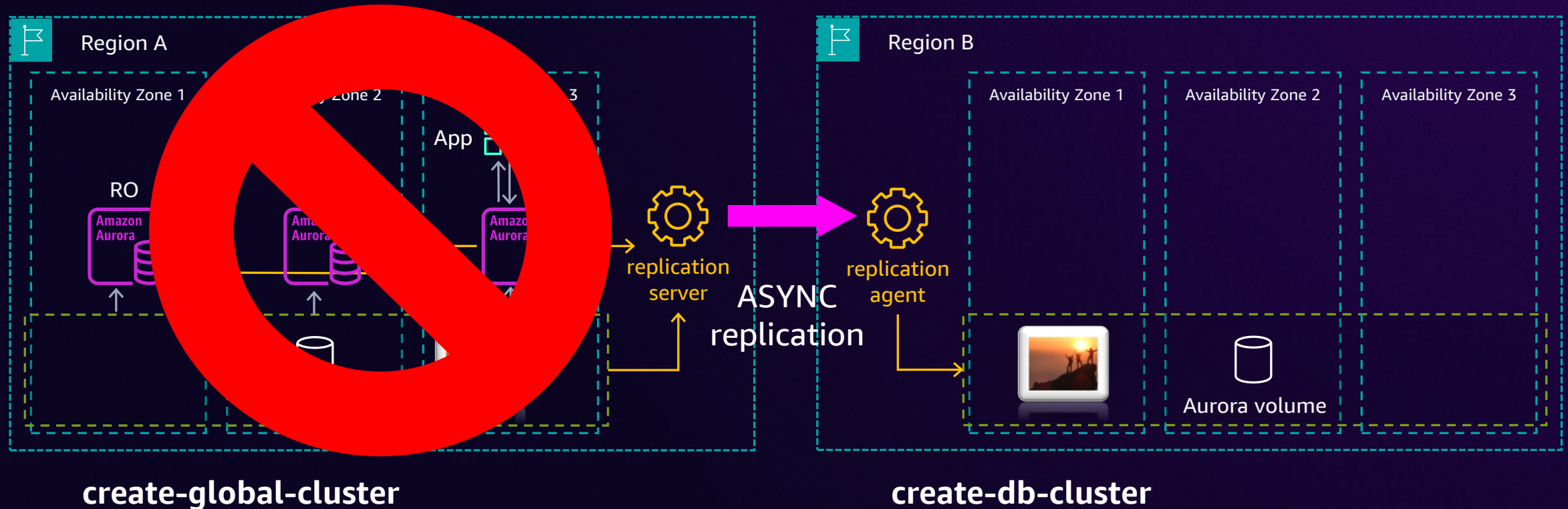
RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Storage only



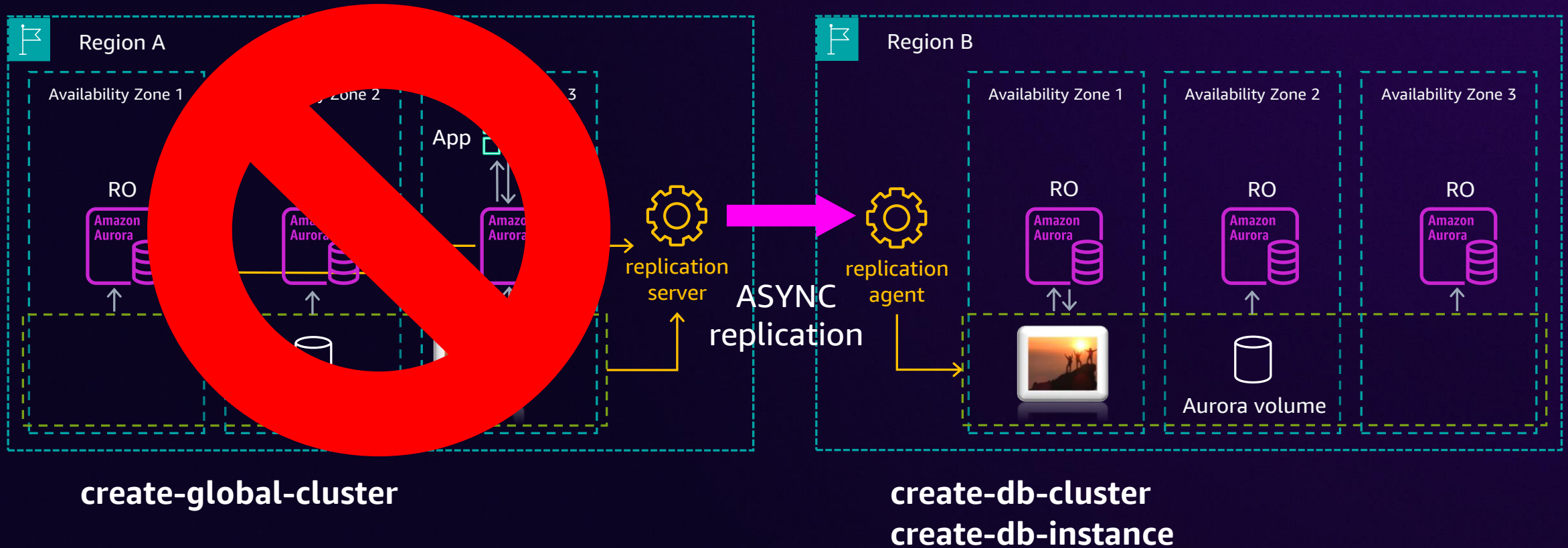
RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Storage only



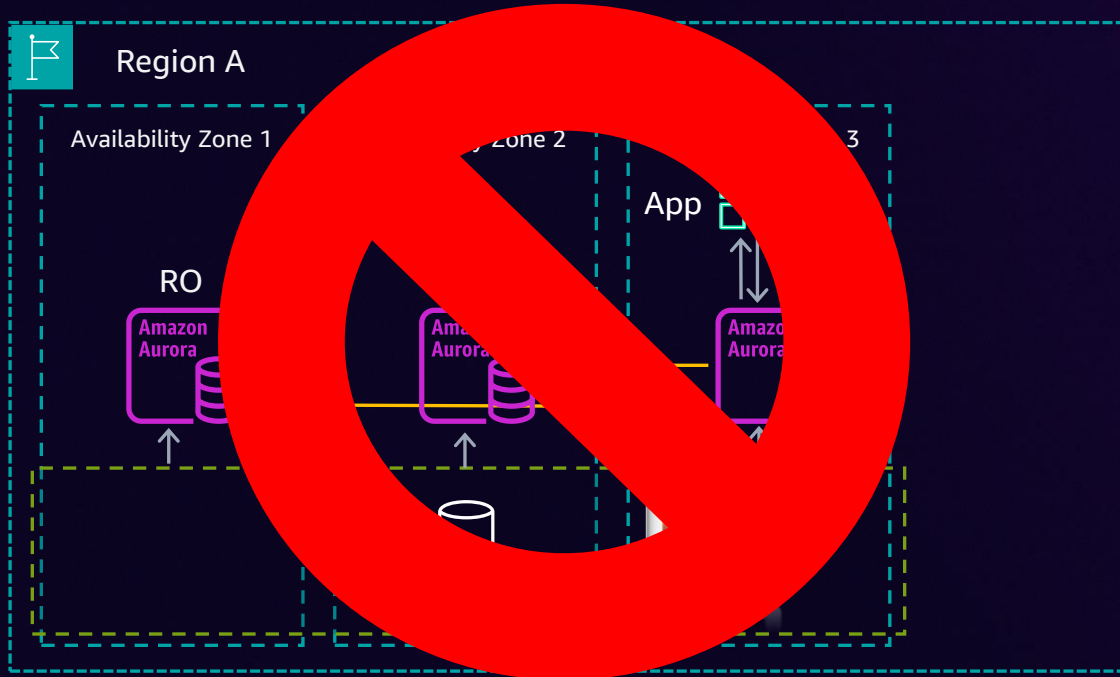
RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Storage only

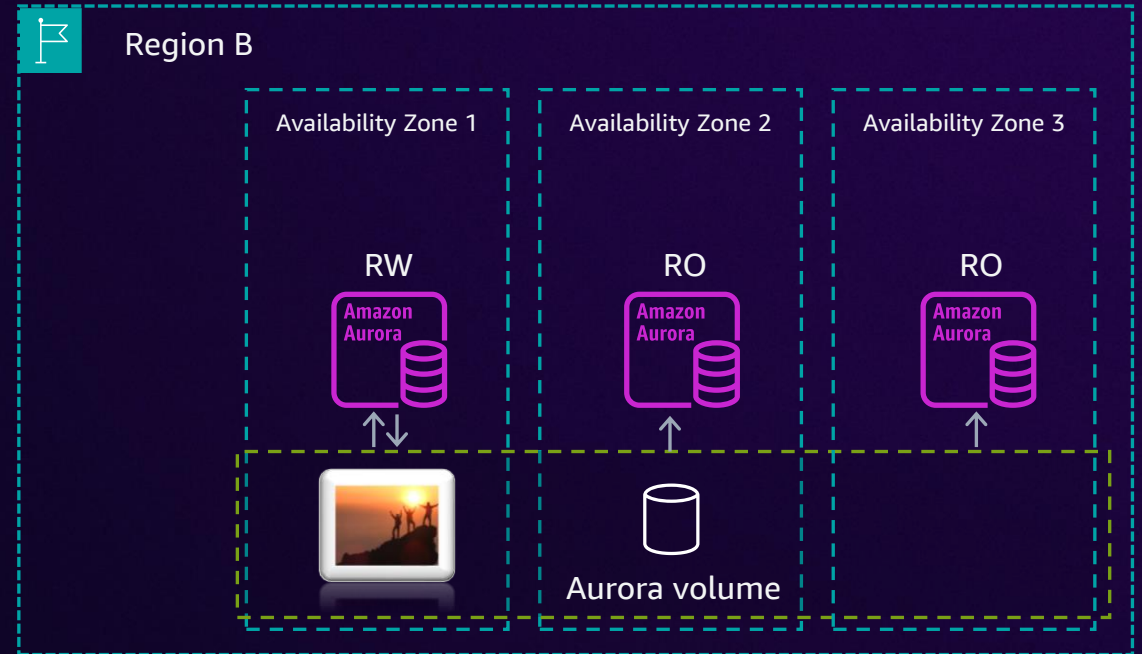


RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Storage only



create-global-cluster



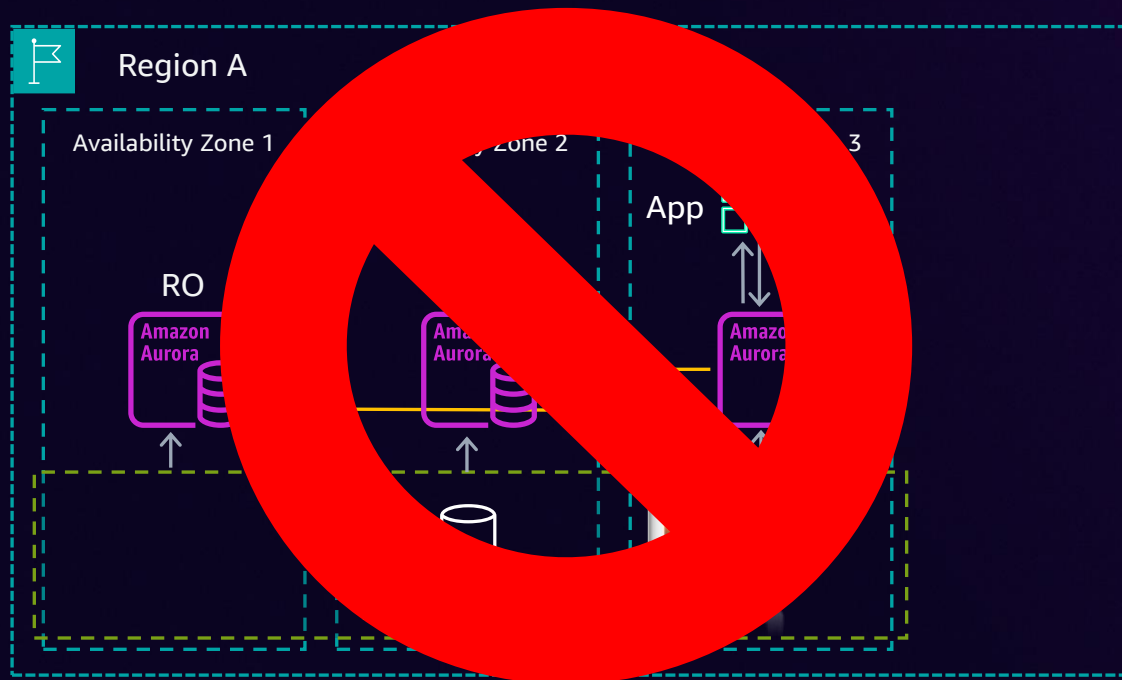
create-db-cluster

create-db-instance

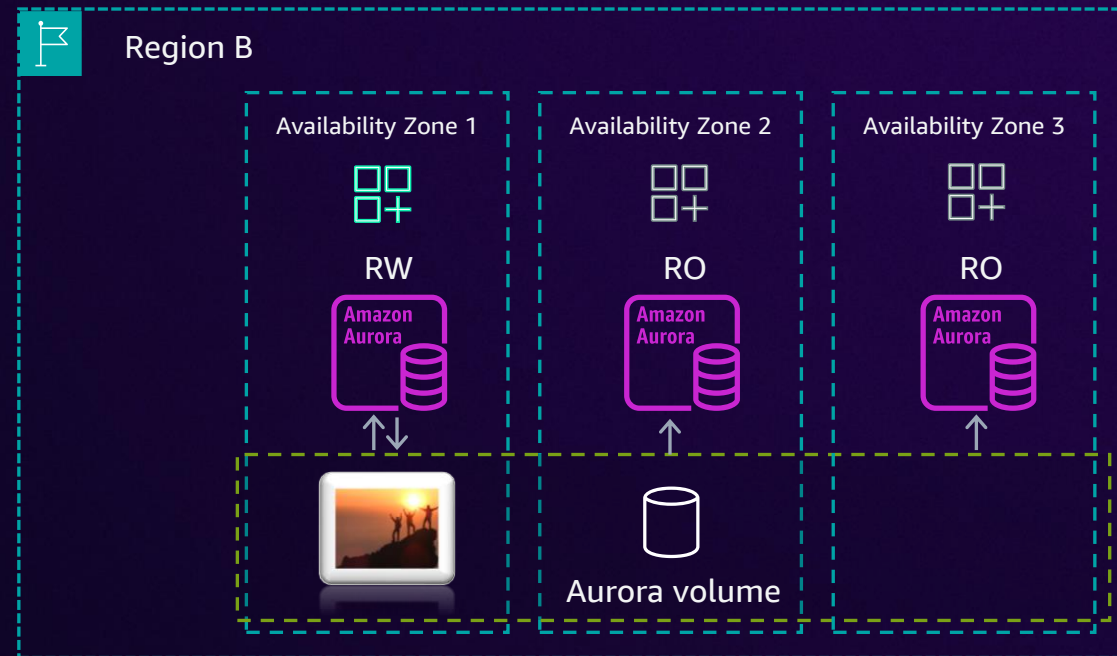
failover-global-cluster --allow-data-loss

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Storage only



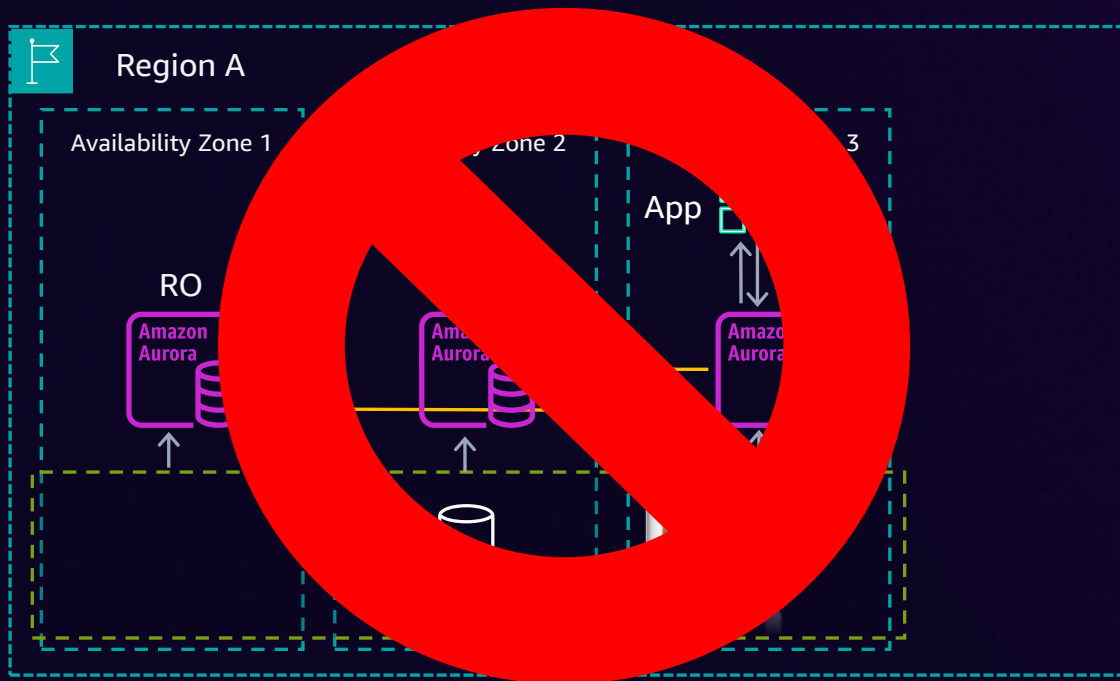
create-global-cluster



create-db-cluster
create-db-instance
failover-global-cluster --allow-data-loss

RPO \approx sub 1 second for replication lag + network partition time

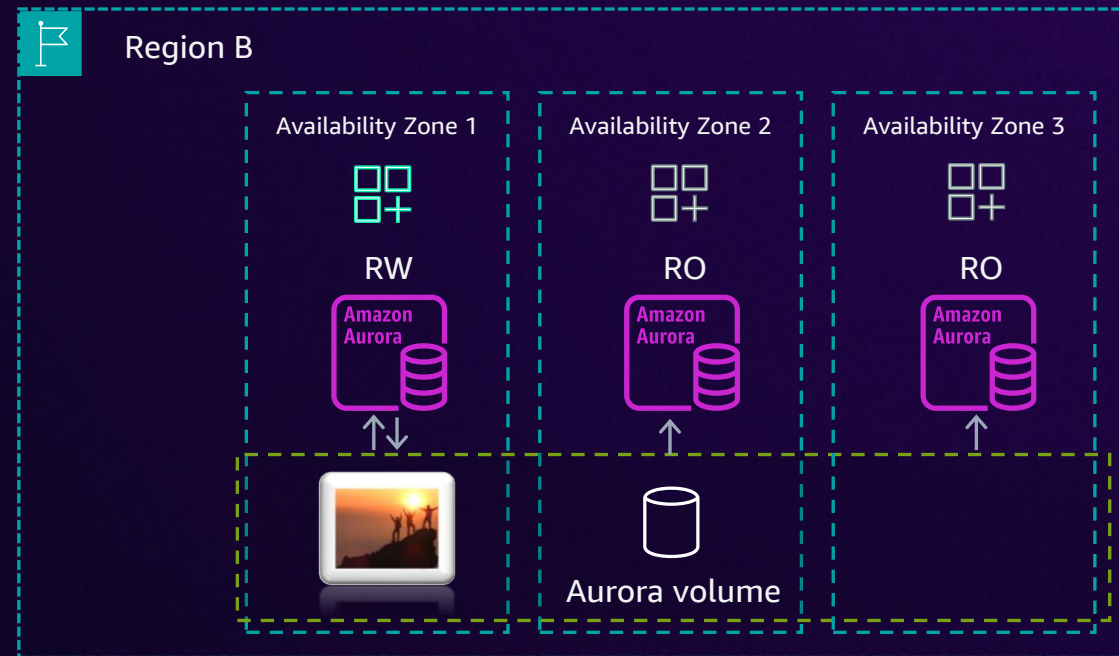
Aurora global database – Storage only



create-global-cluster

RTO \approx 15+ minutes

RPO \approx sub 1 second for replication lag + network partition time

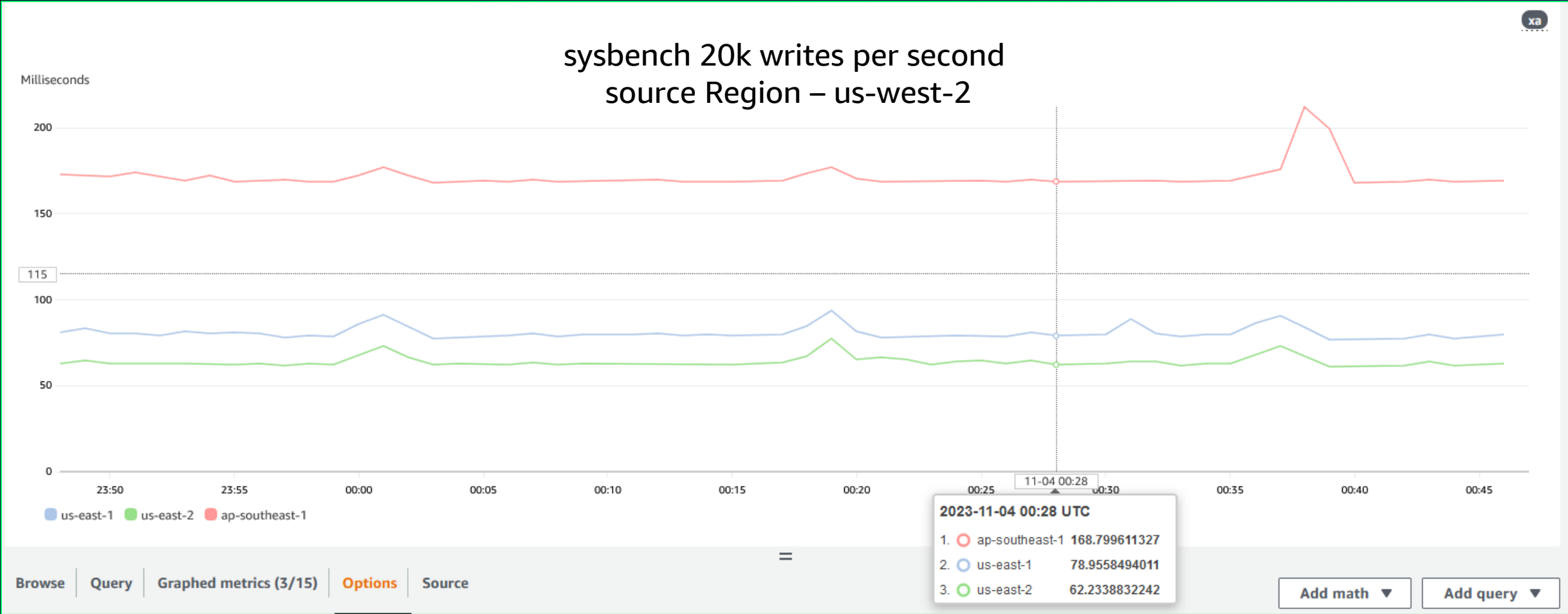


create-db-cluster

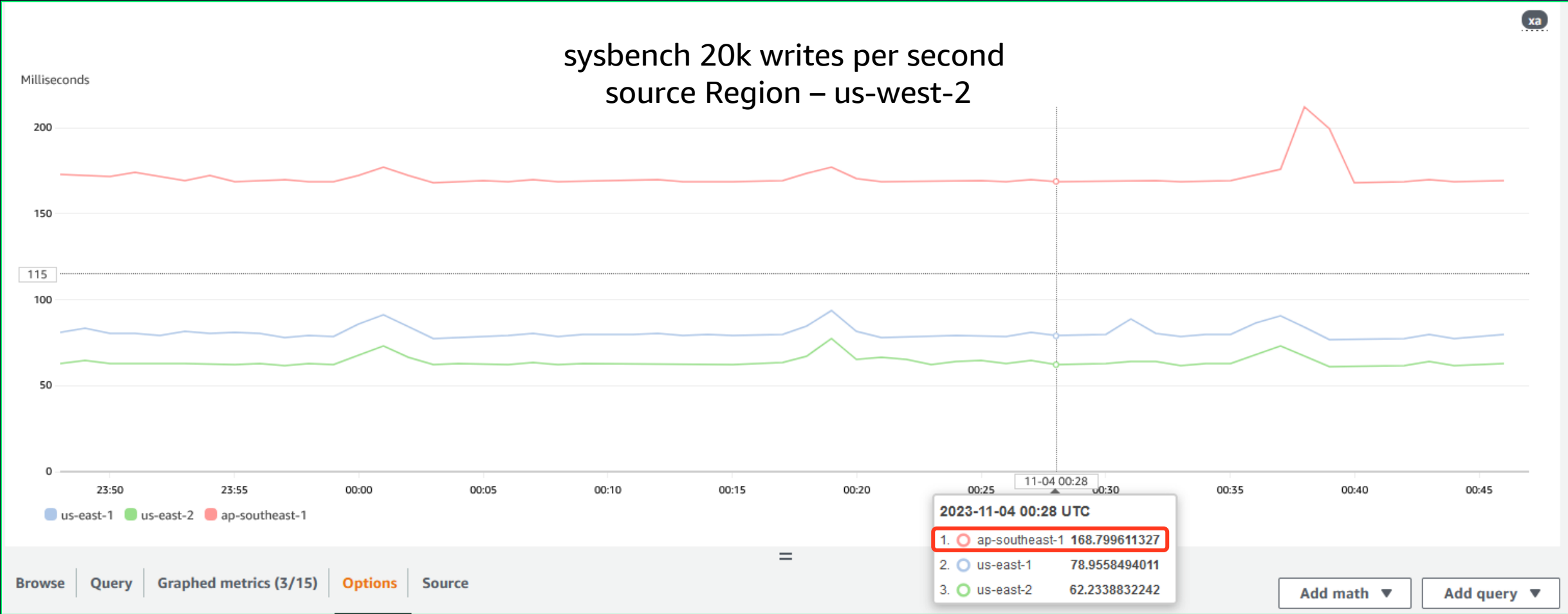
create-db-instance

failover-global-cluster --allow-data-loss

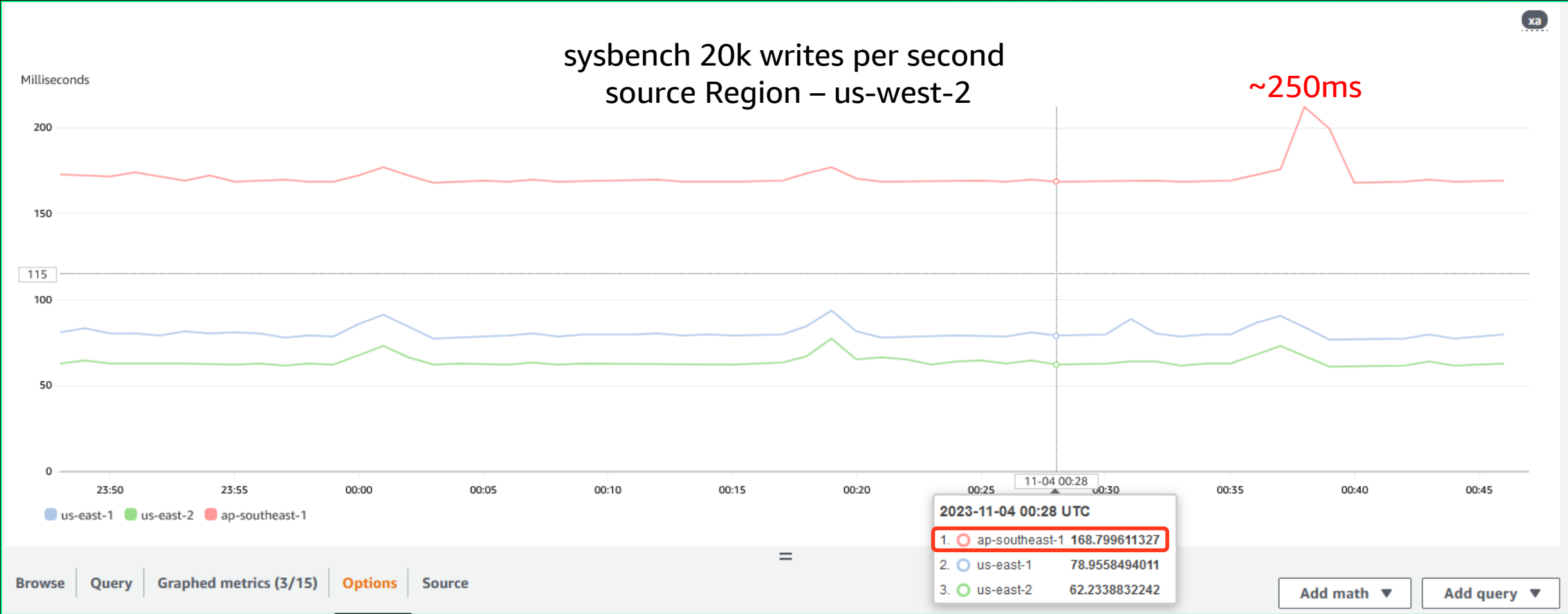
Aurora global database – Replication lag



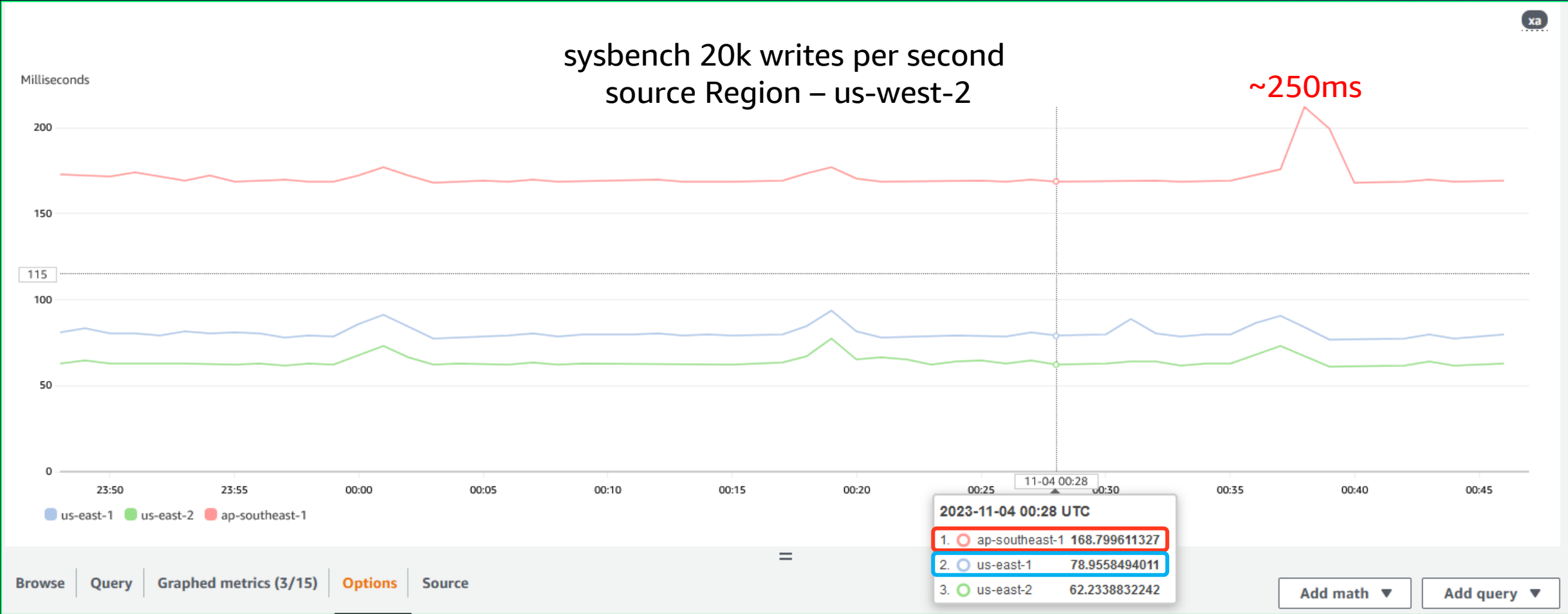
Aurora global database – Replication lag



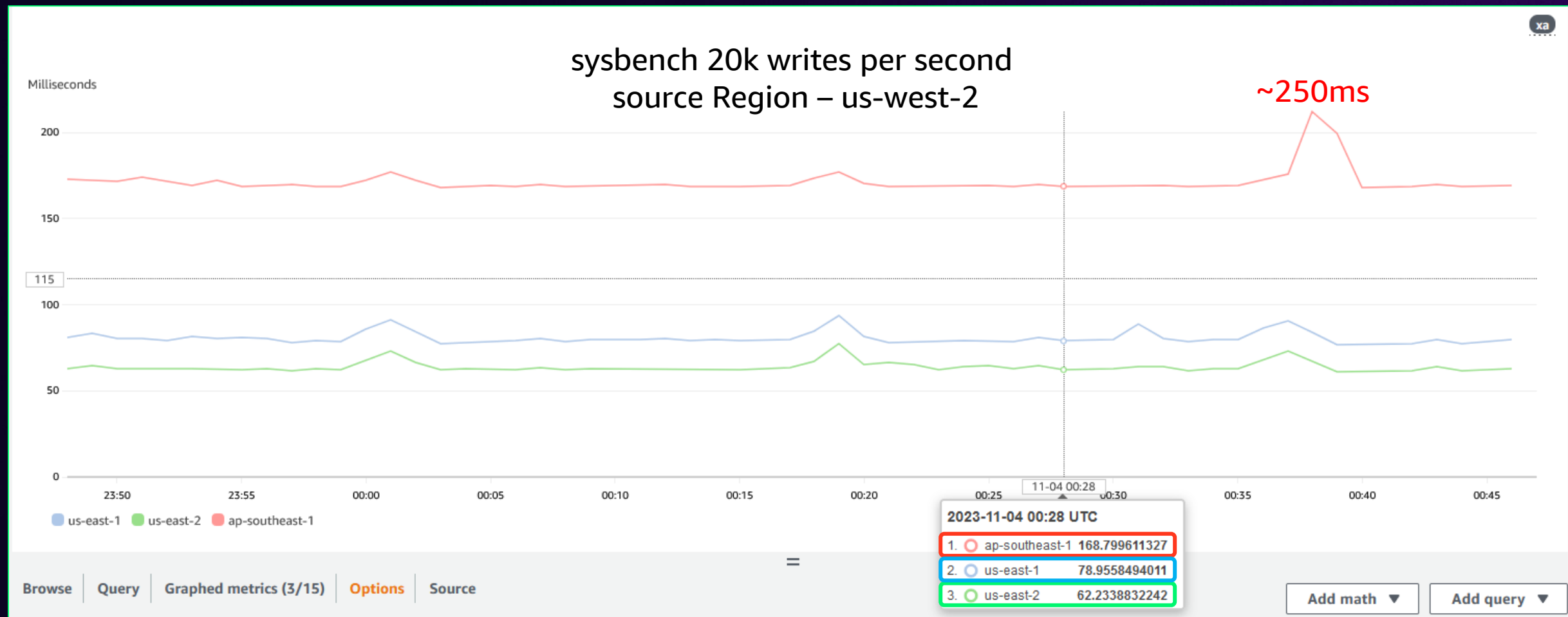
Aurora global database – Replication lag



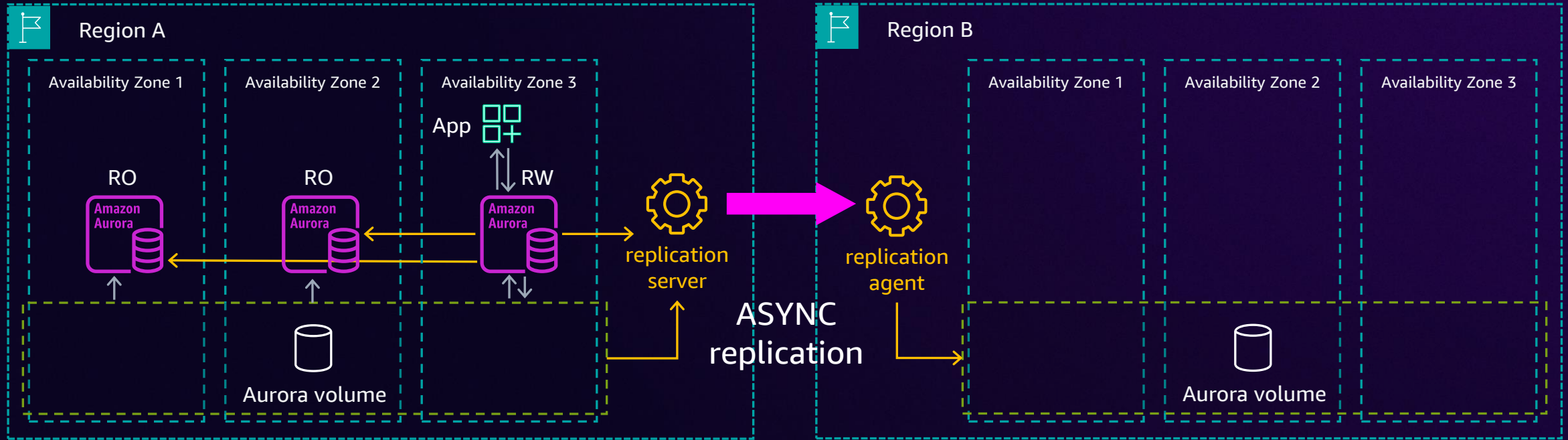
Aurora global database – Replication lag



Aurora global database – Replication lag

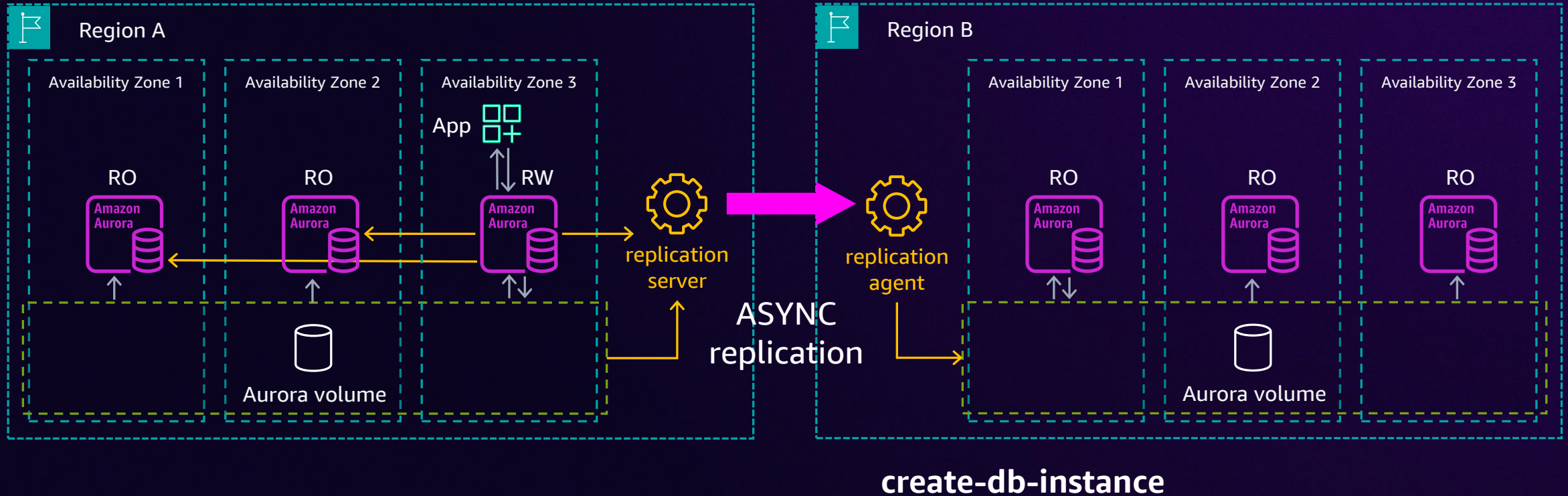


Aurora global database – Symmetric configuration



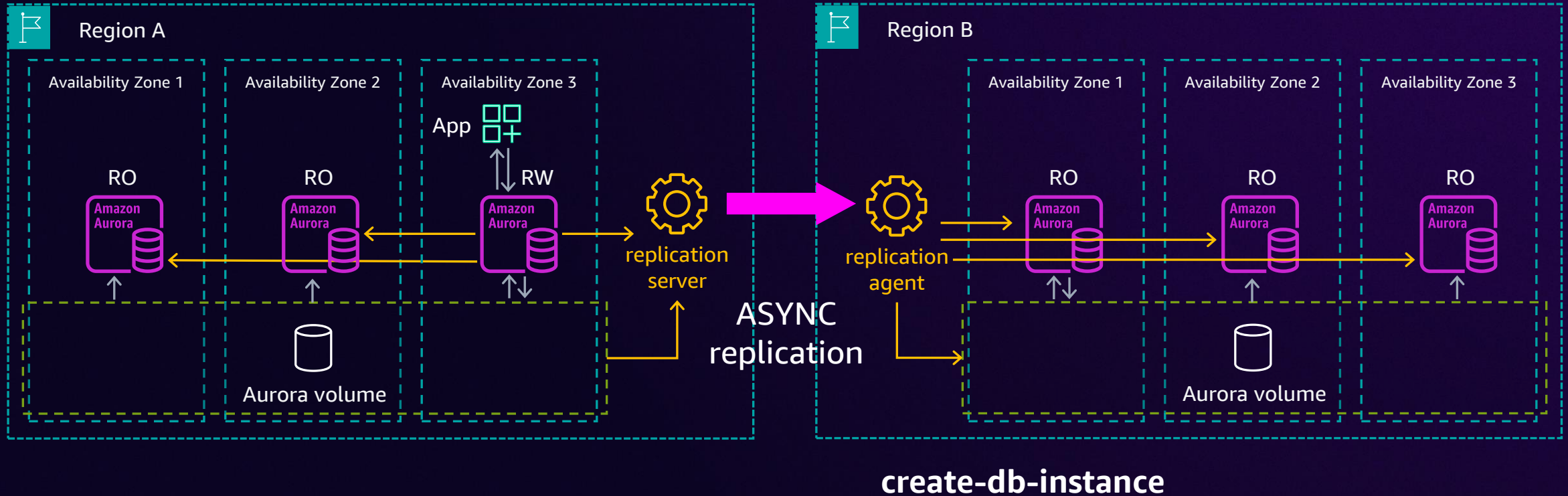
RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration



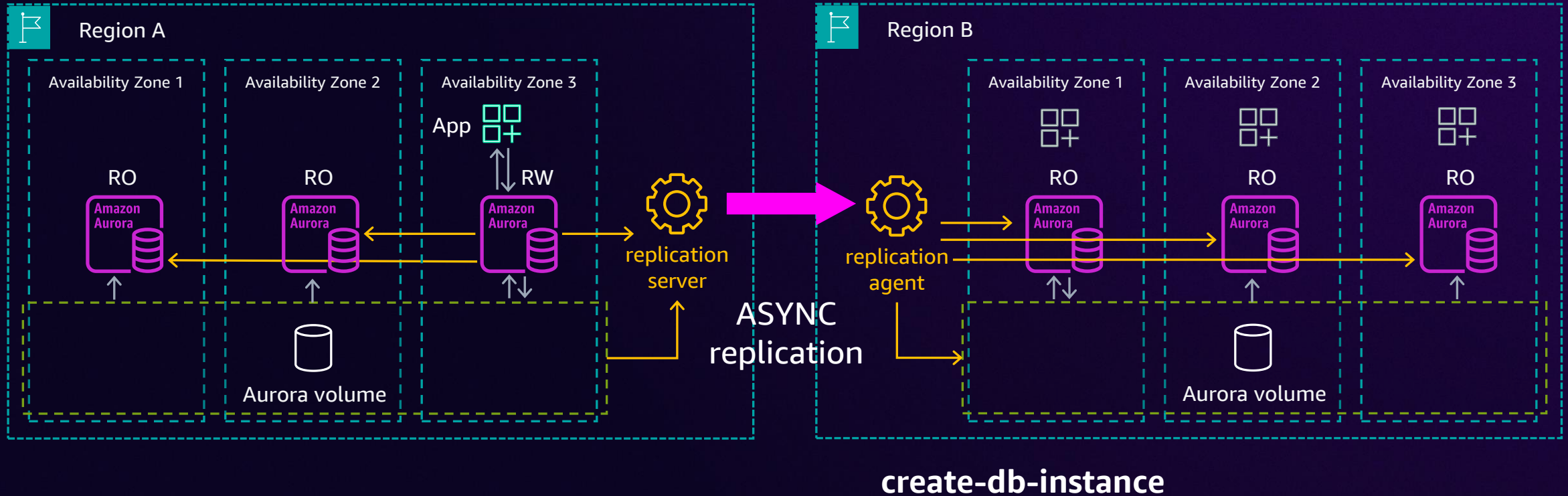
RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration



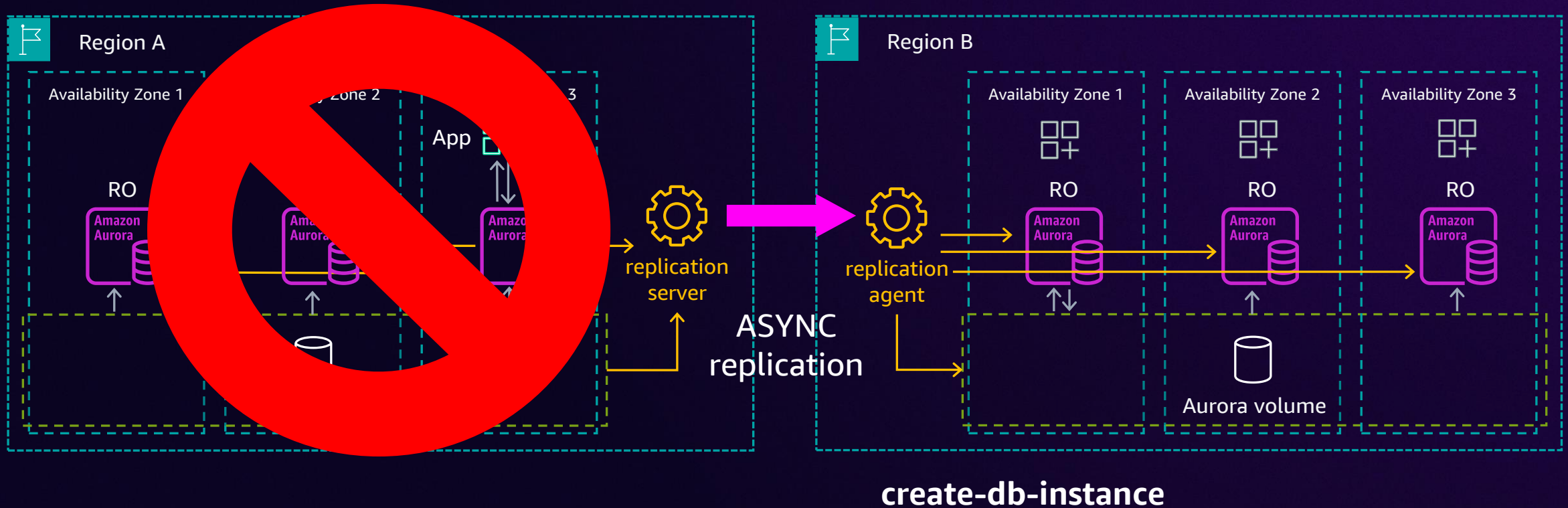
RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration



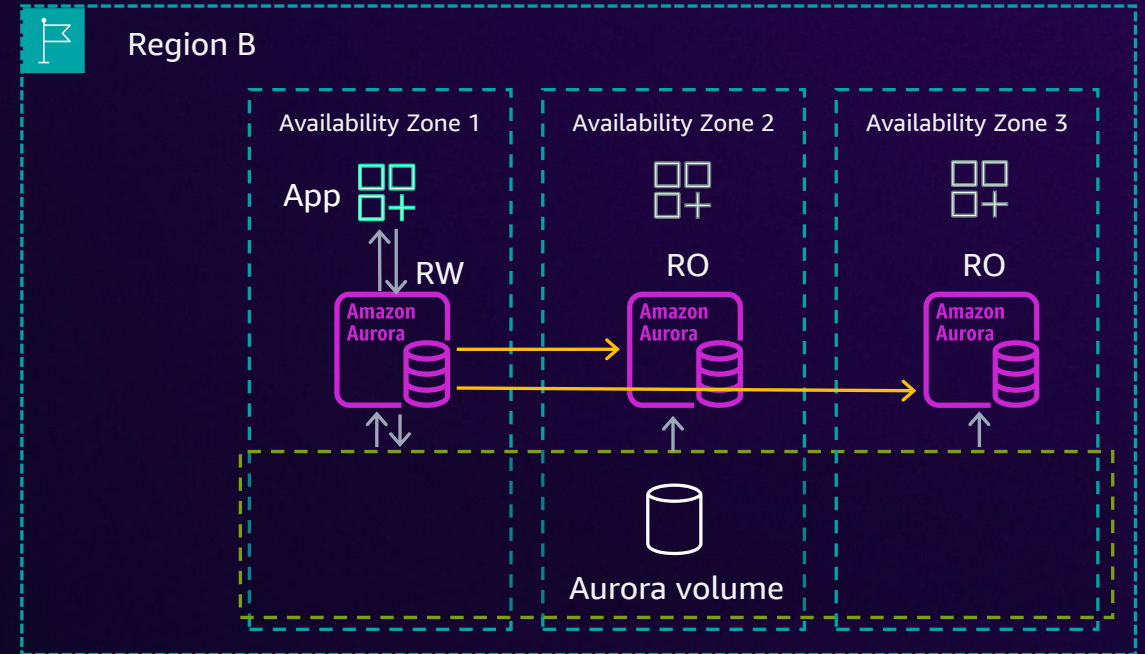
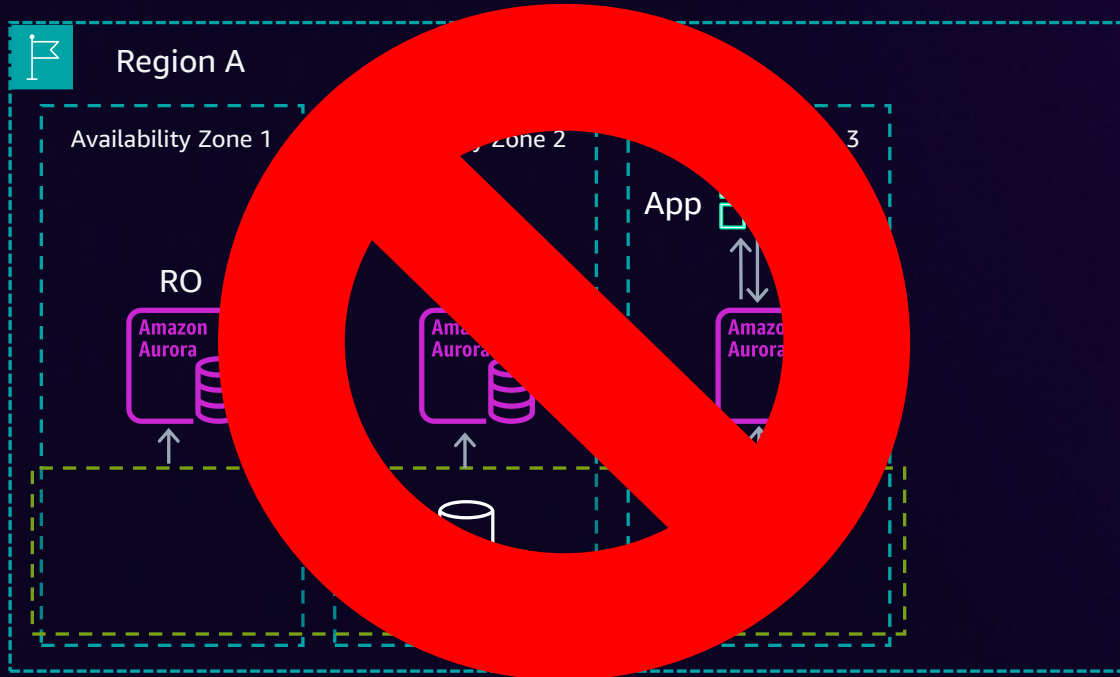
RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration



RPO \approx sub 1 second for replication lag + network partition time

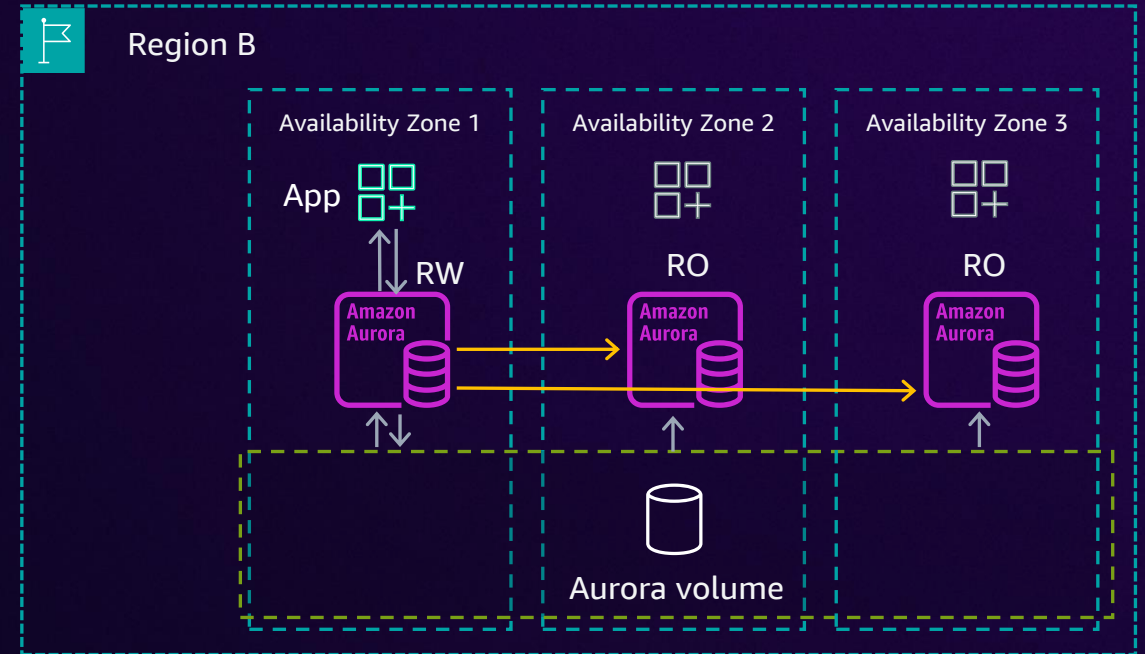
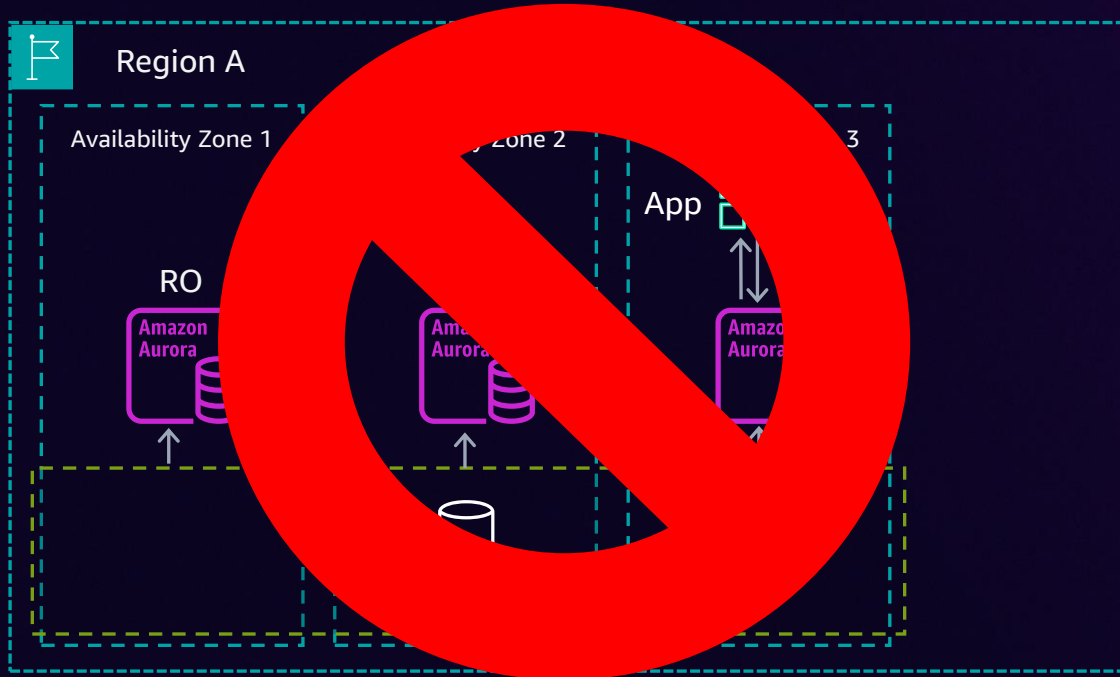
Aurora global database – Symmetric configuration



create-db-instance
failover-global-cluster --allow-data-loss

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration



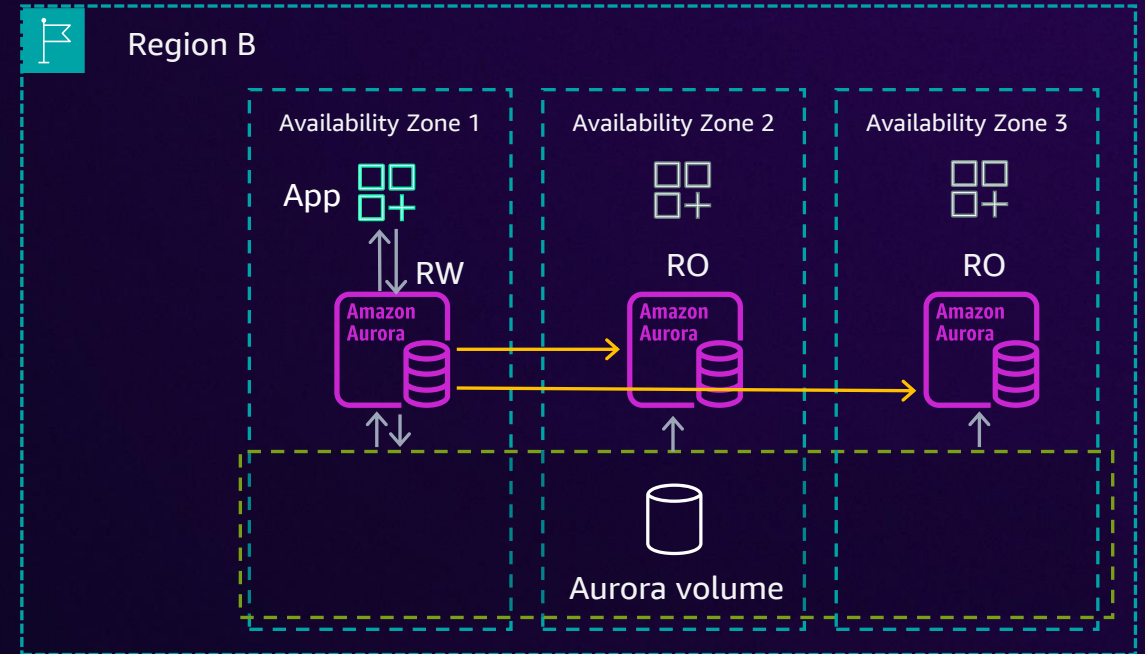
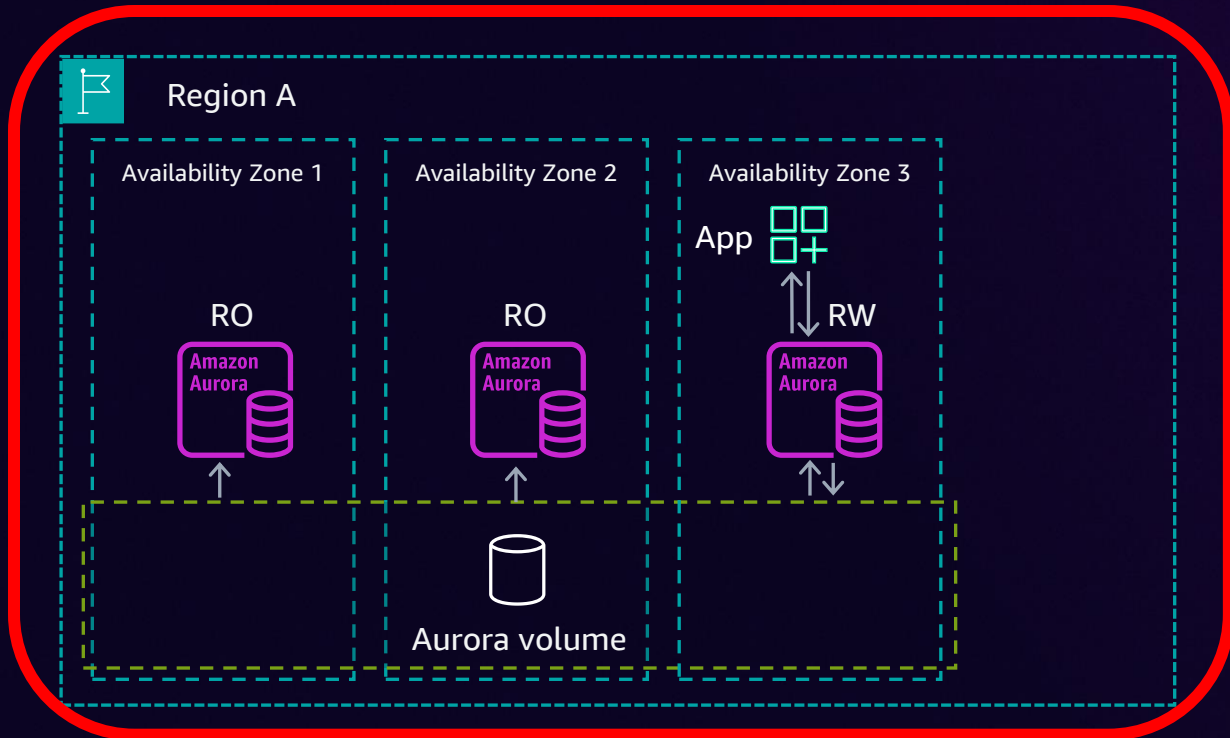
create-db-instance
failover-global-cluster --allow-data-loss

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration

network partition

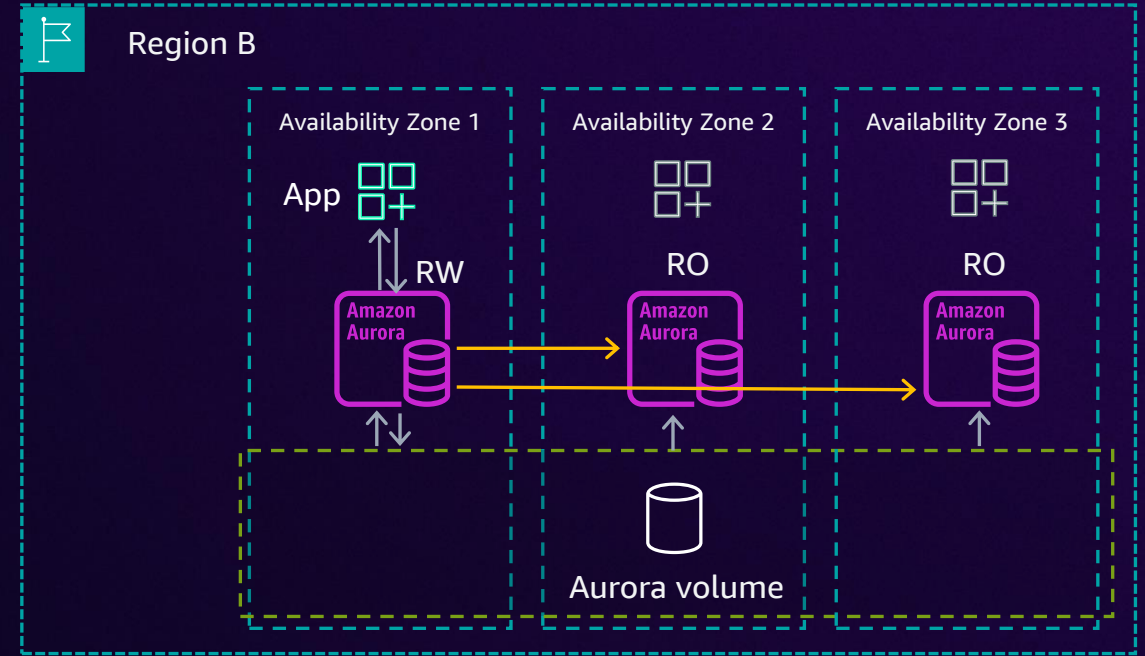
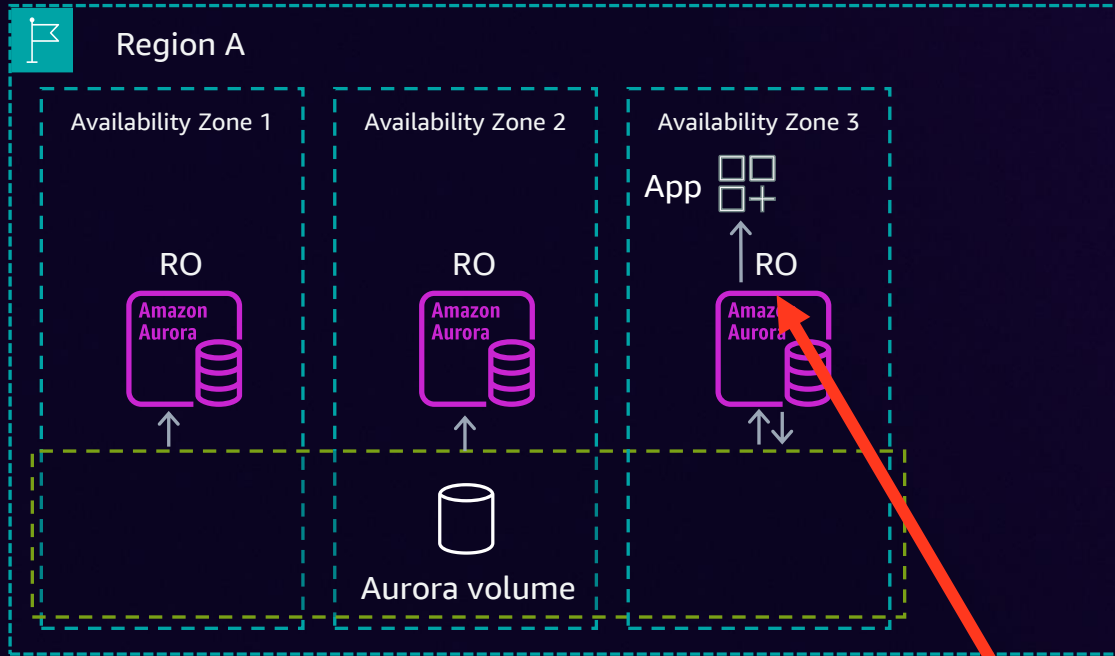


create-db-instance
failover-global-cluster --allow-data-loss

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration

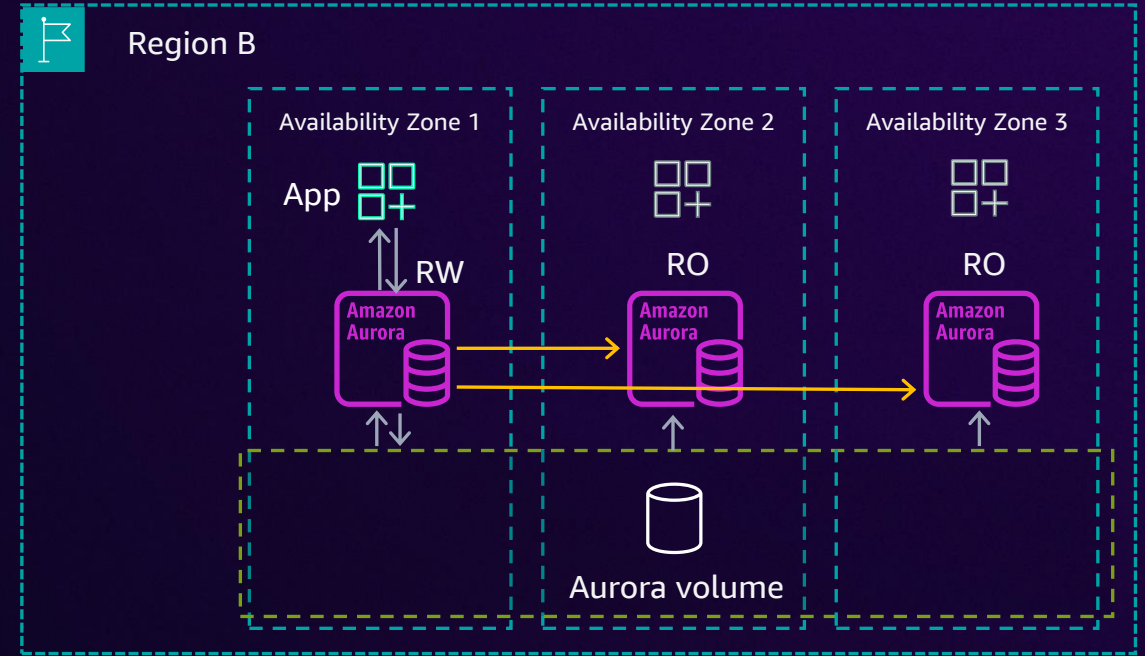
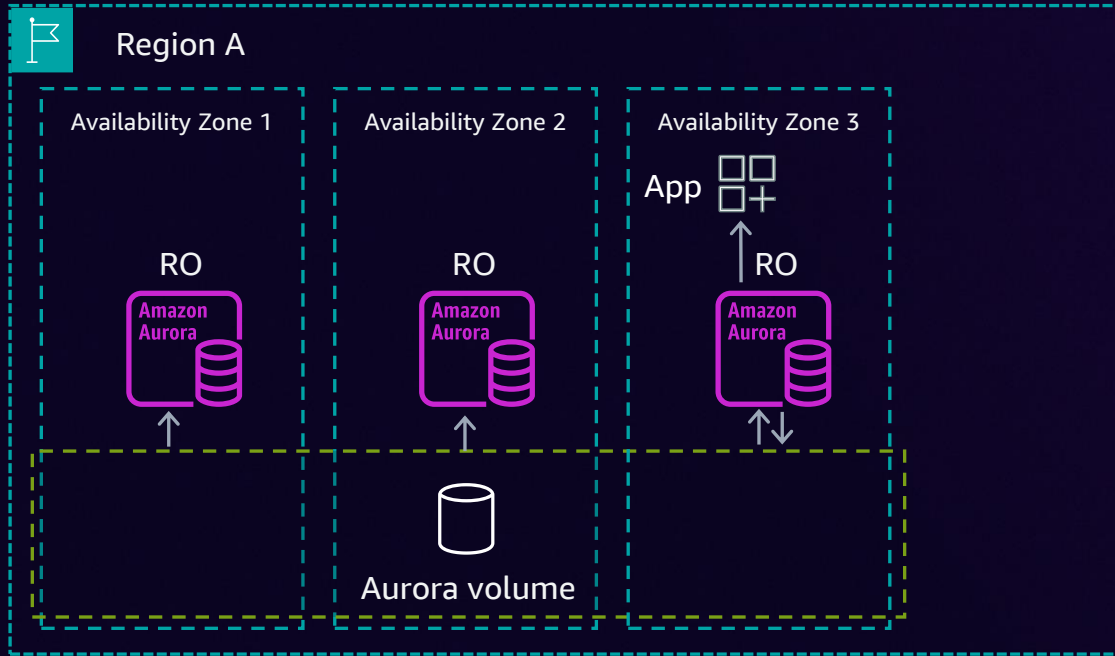


**create-db-instance
failover-global-cluster --allow-data-loss**

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration

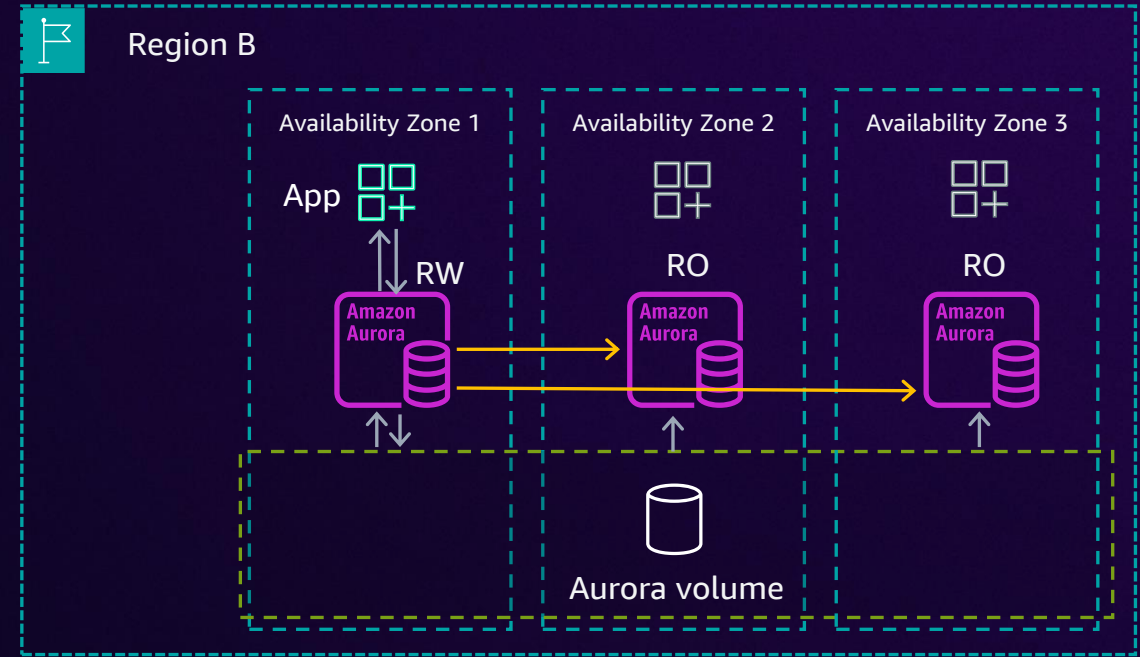
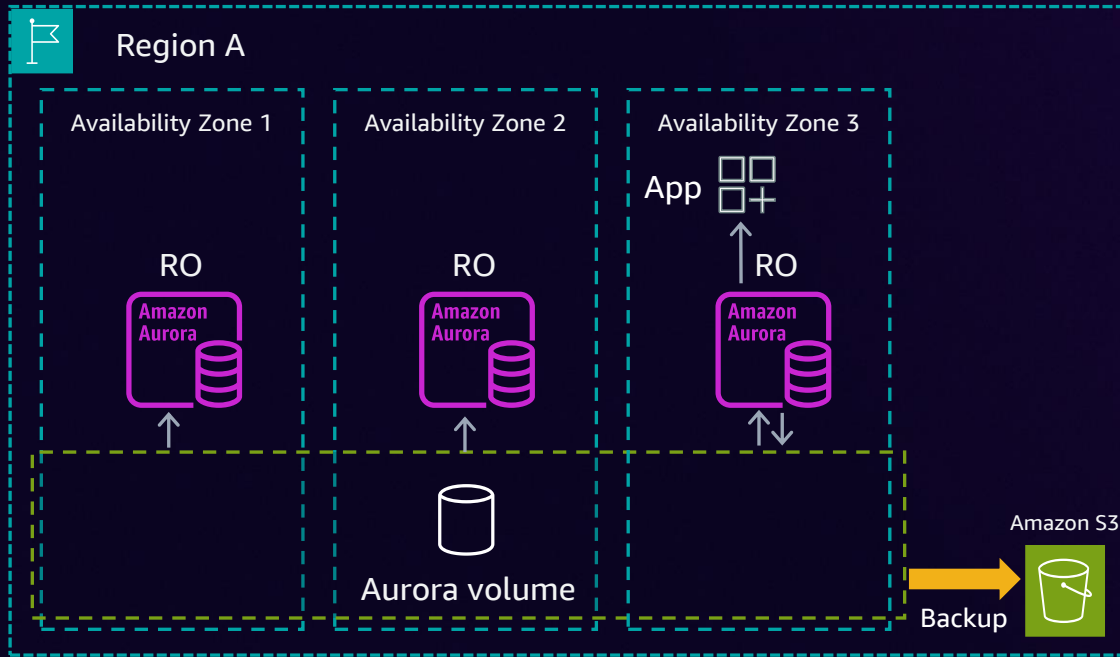


create-db-instance
failover-global-cluster --allow-data-loss

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration

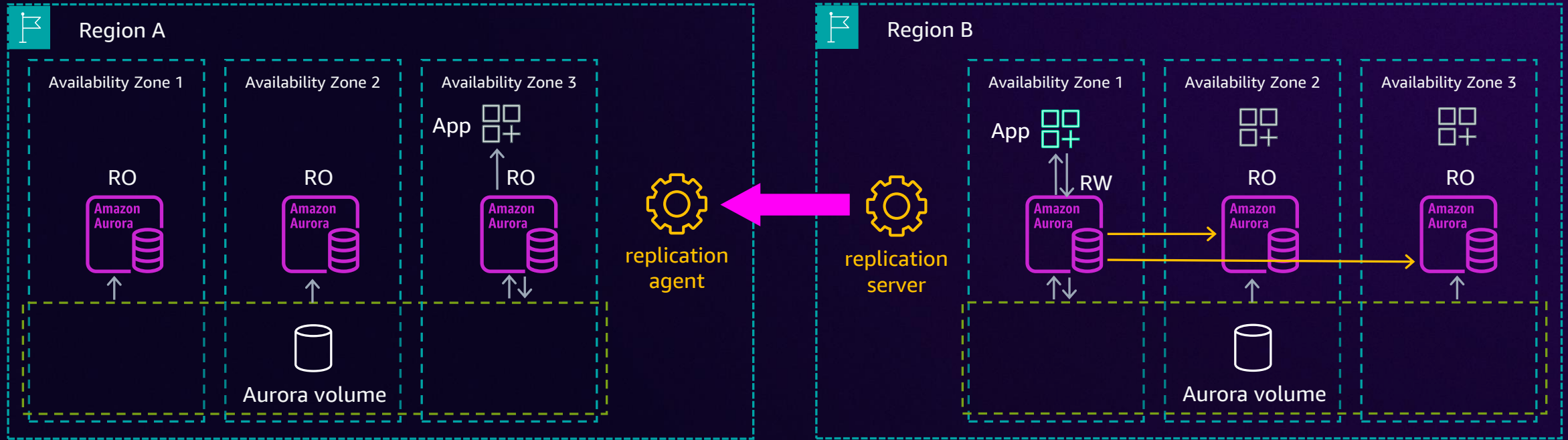


create-db-instance
failover-global-cluster --allow-data-loss

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration

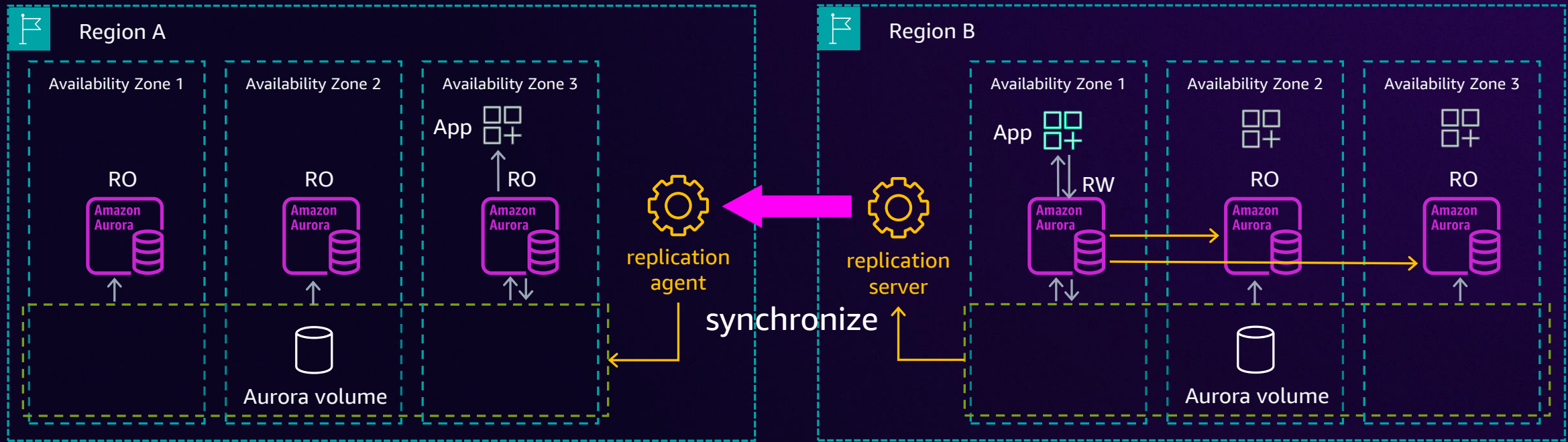


create-db-instance
failover-global-cluster --allow-data-loss

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration

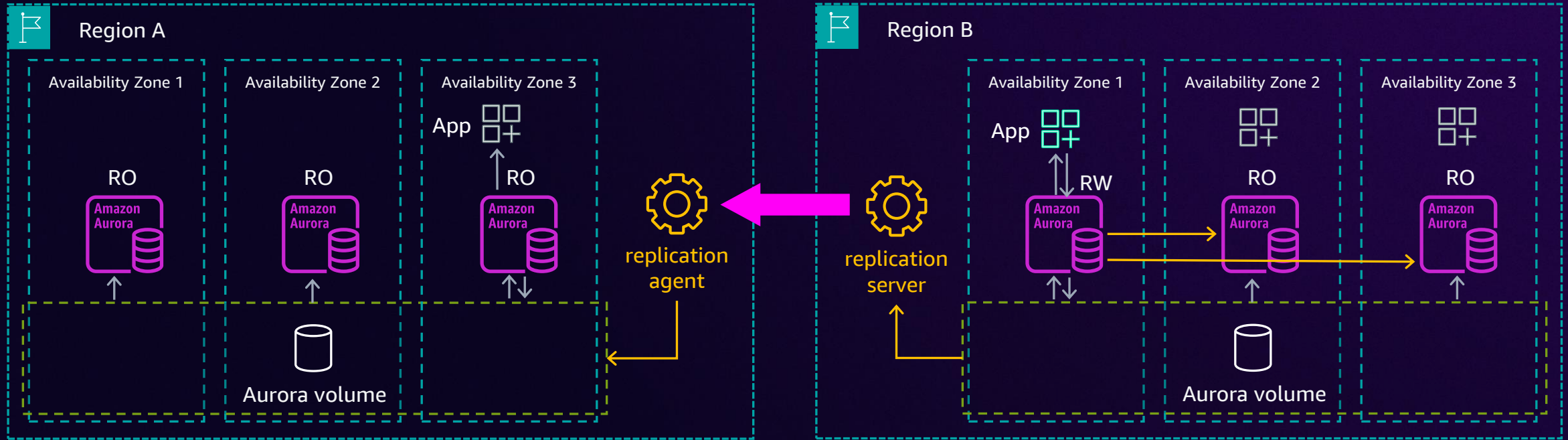


create-db-instance
failover-global-cluster --allow-data-loss

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration

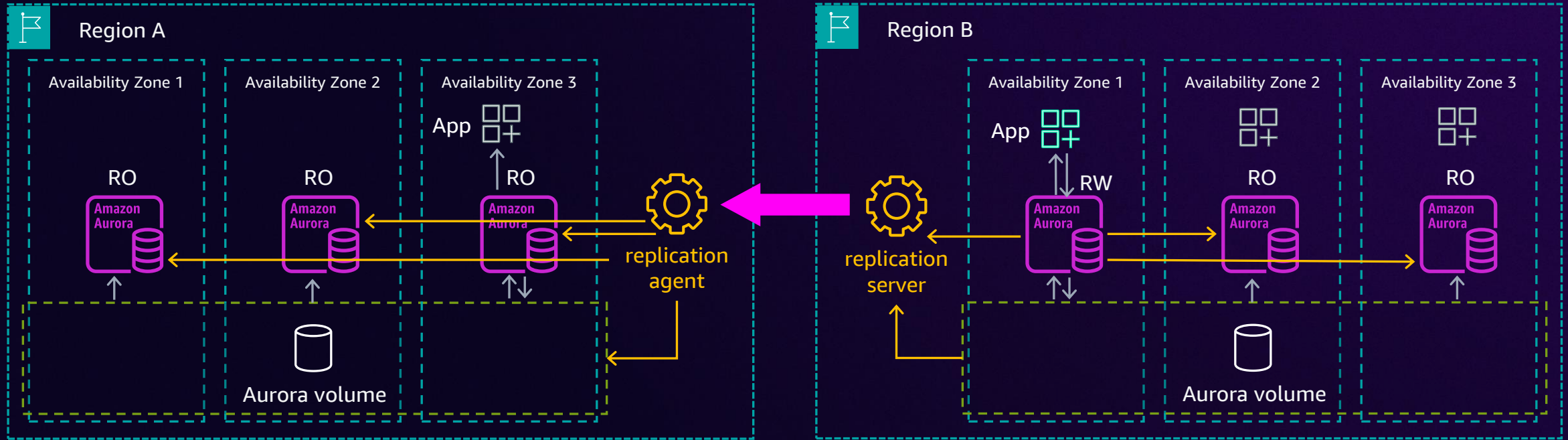


**create-db-instance
failover-global-cluster --allow-data-loss**

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Symmetric configuration

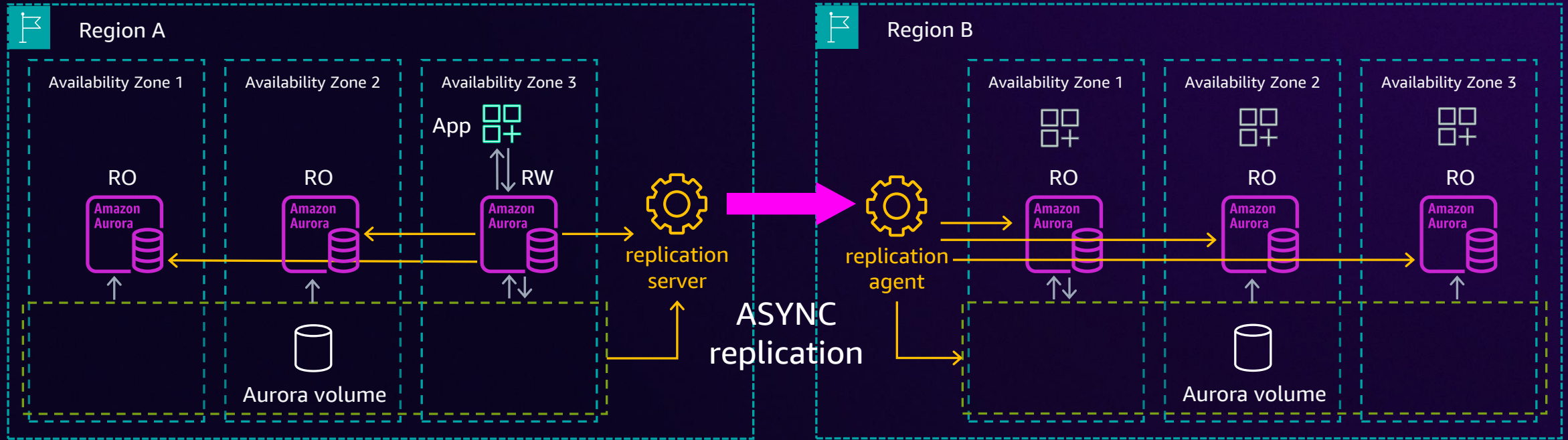


create-db-instance
failover-global-cluster --allow-data-loss

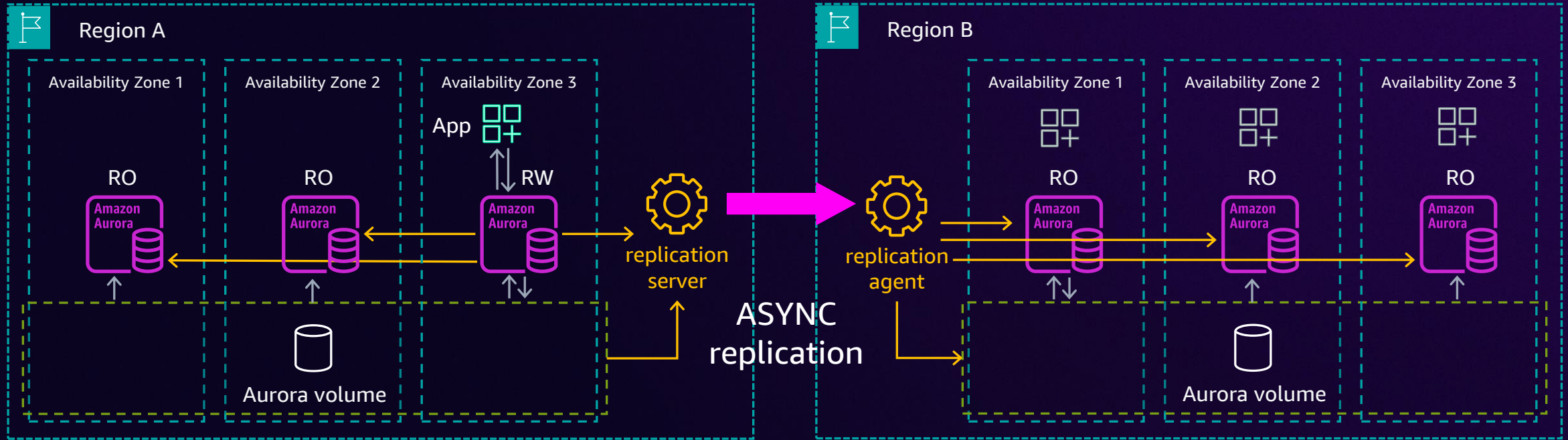
RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Switchover

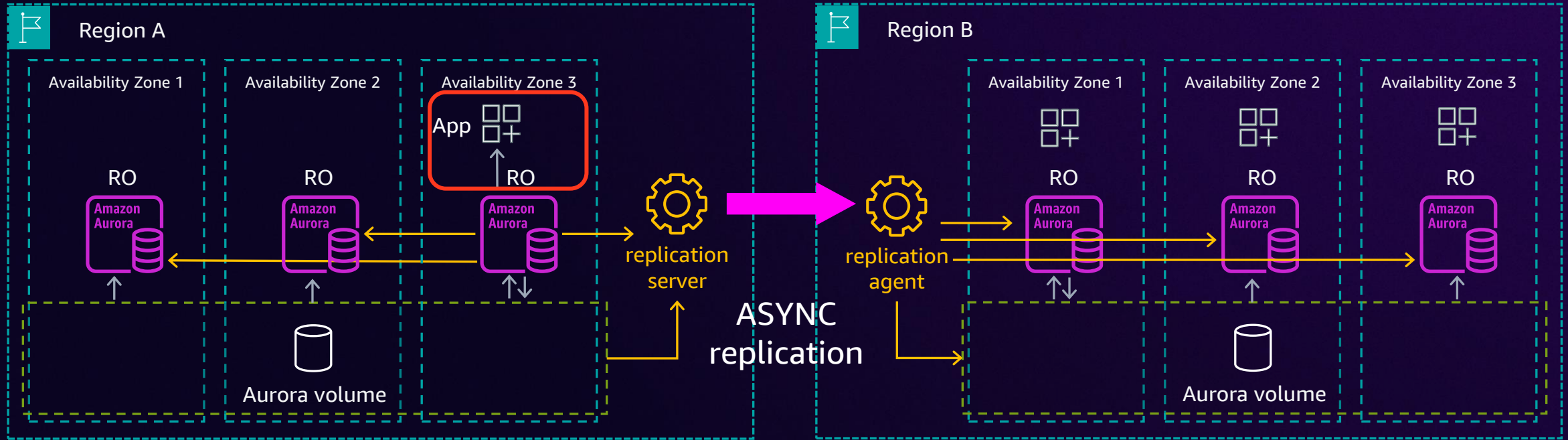


Aurora global database – Switchover



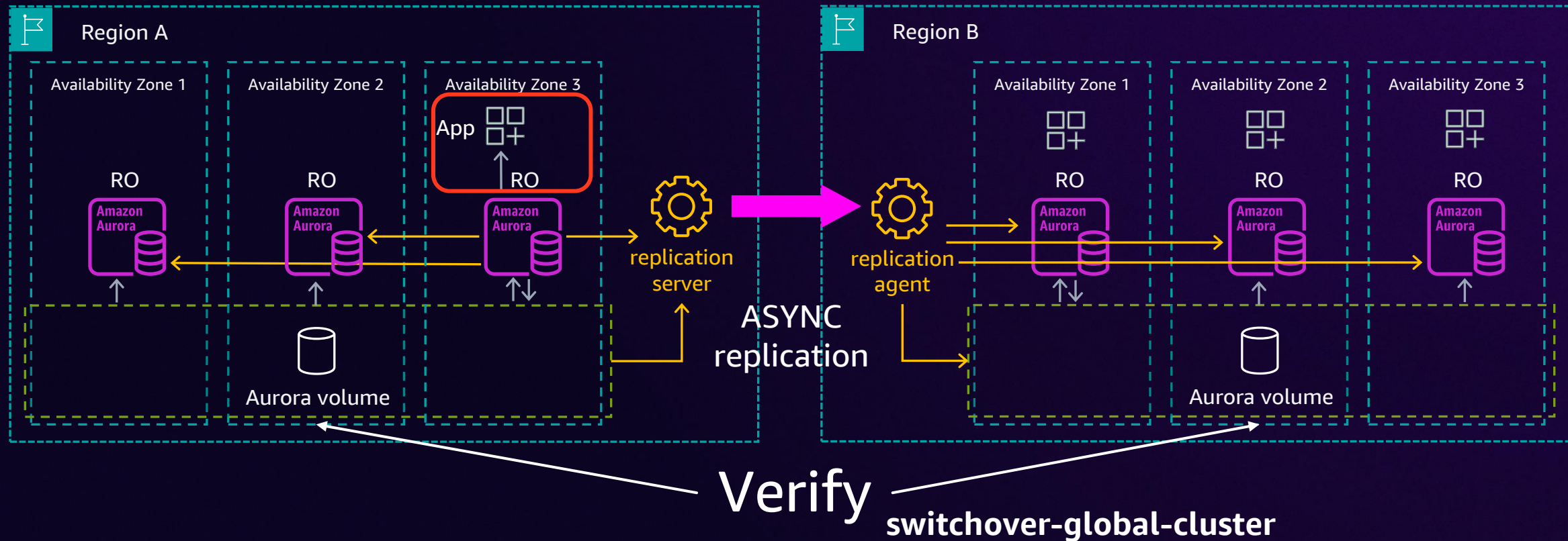
switchover-global-cluster

Aurora global database – Switchover

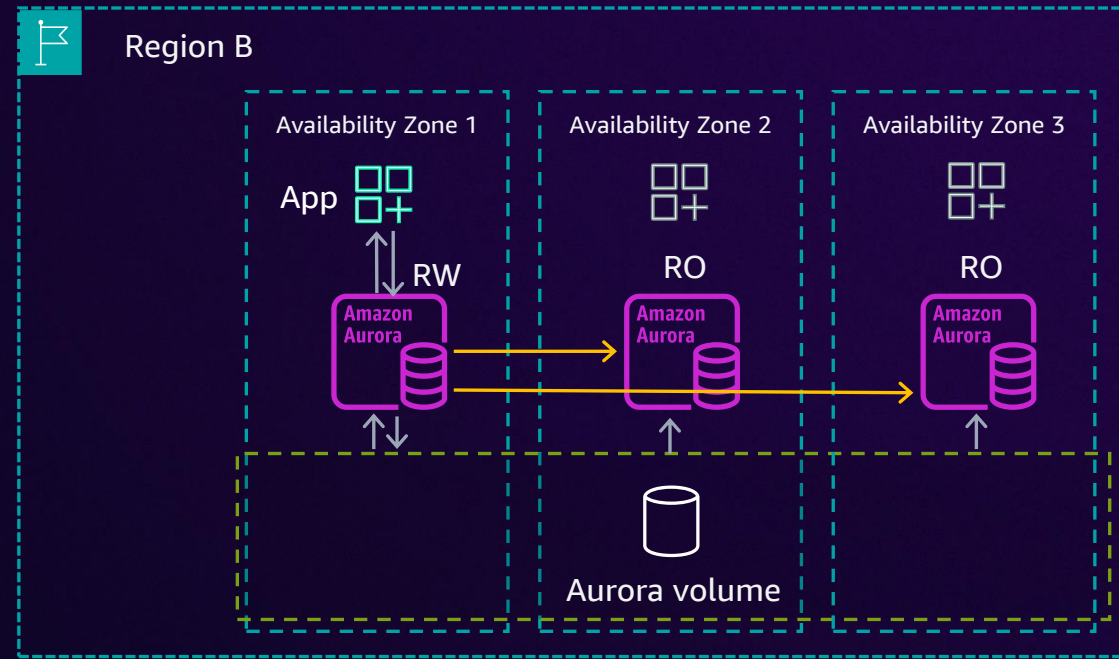
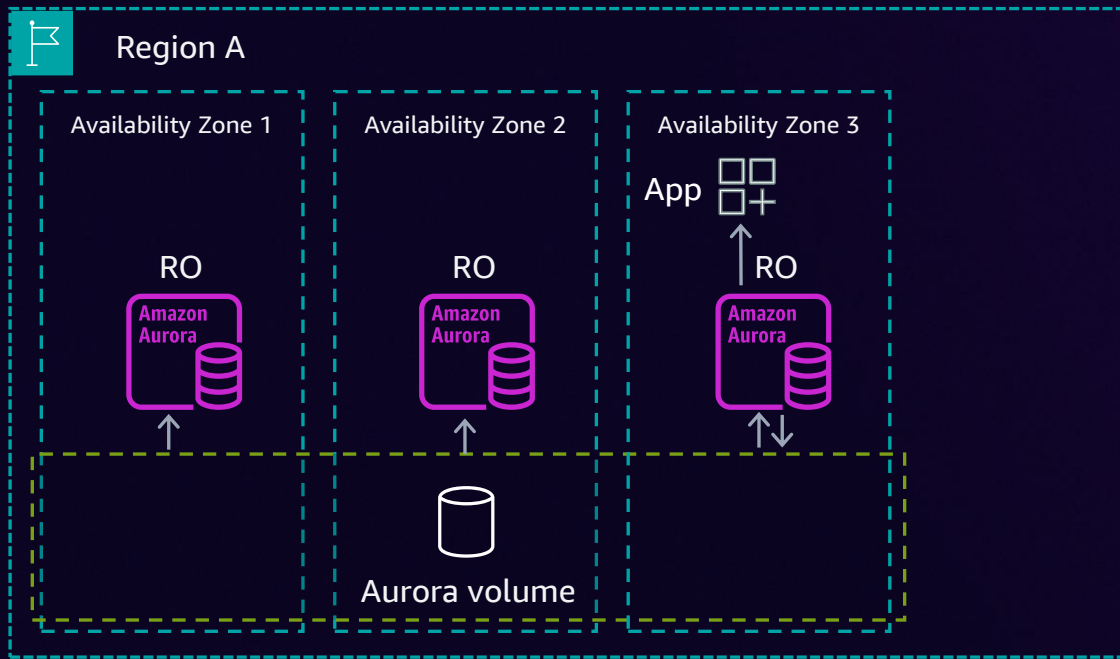


switchover-global-cluster

Aurora global database – Switchover

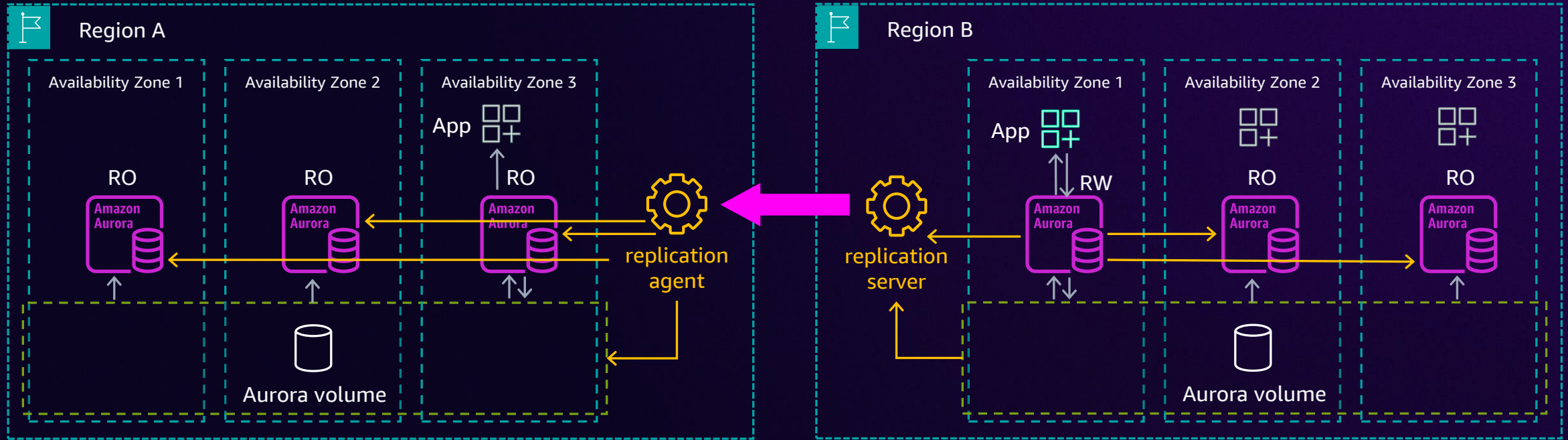


Aurora global database – Switchover



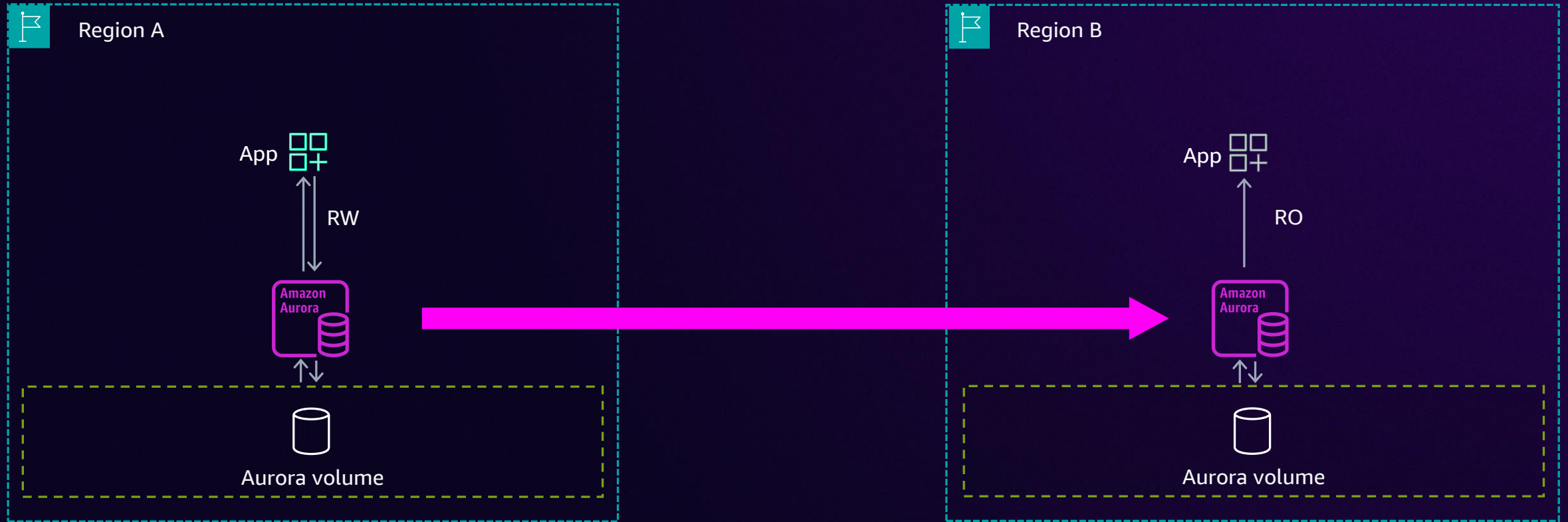
switchover-global-cluster

Aurora global database – Switchover



switchover-global-cluster

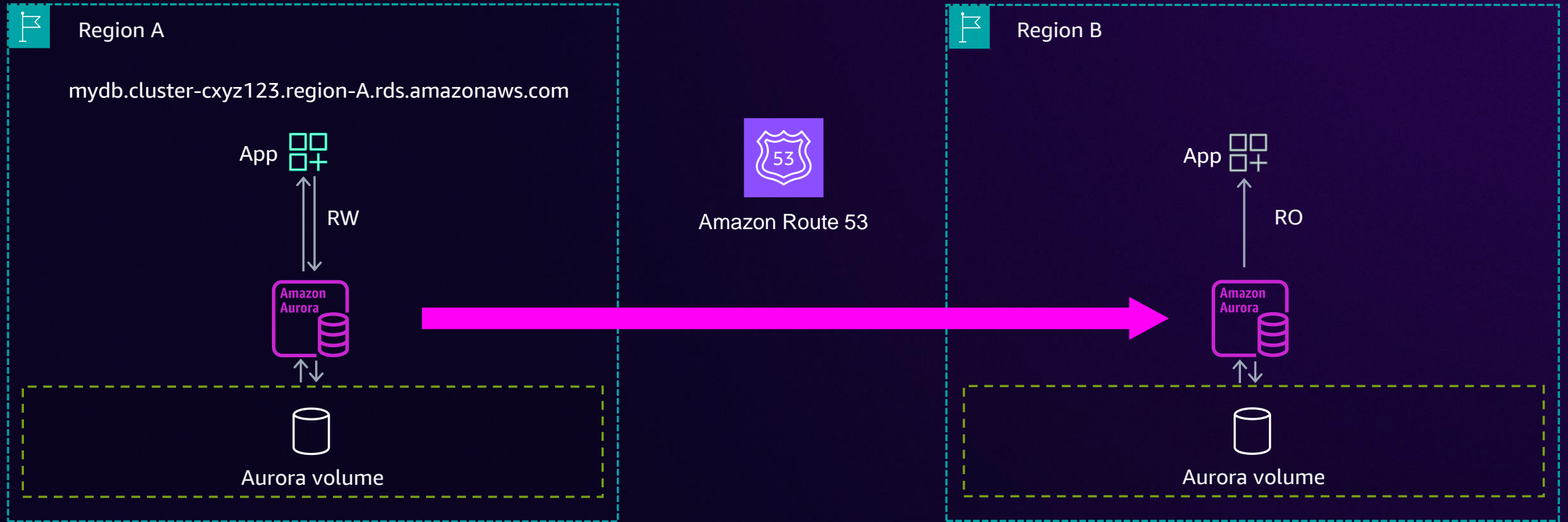
Aurora global database – global endpoint



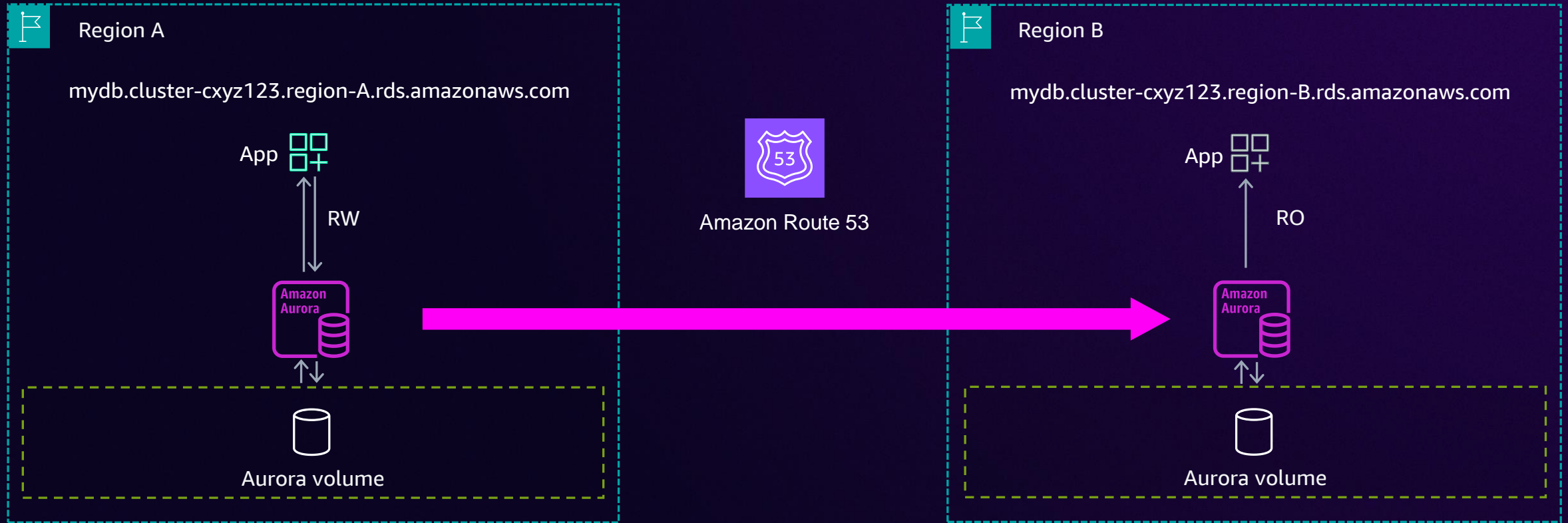
Aurora global database – global endpoint



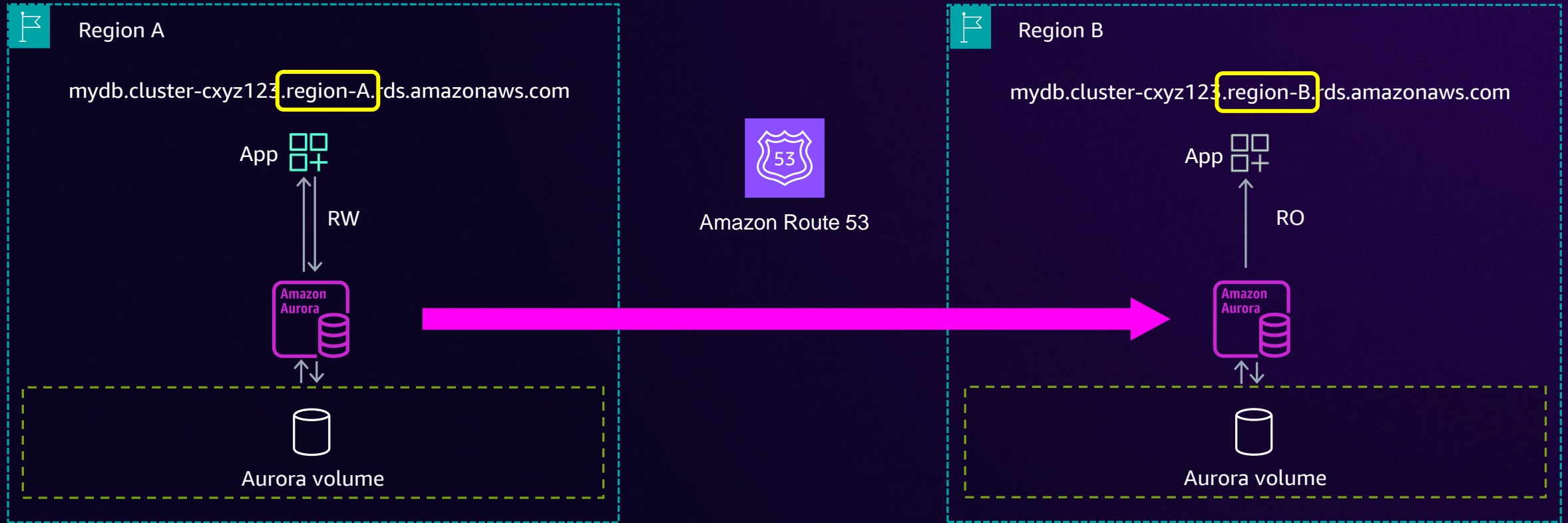
Aurora global database – global endpoint



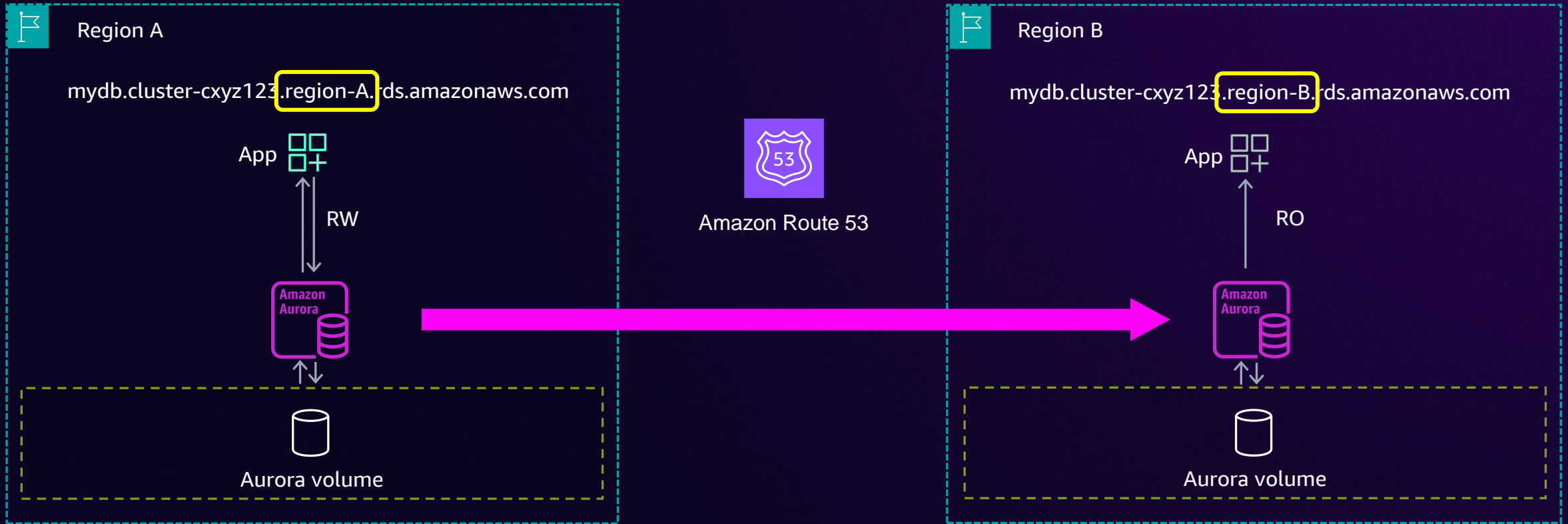
Aurora global database – global endpoint



Aurora global database – global endpoint



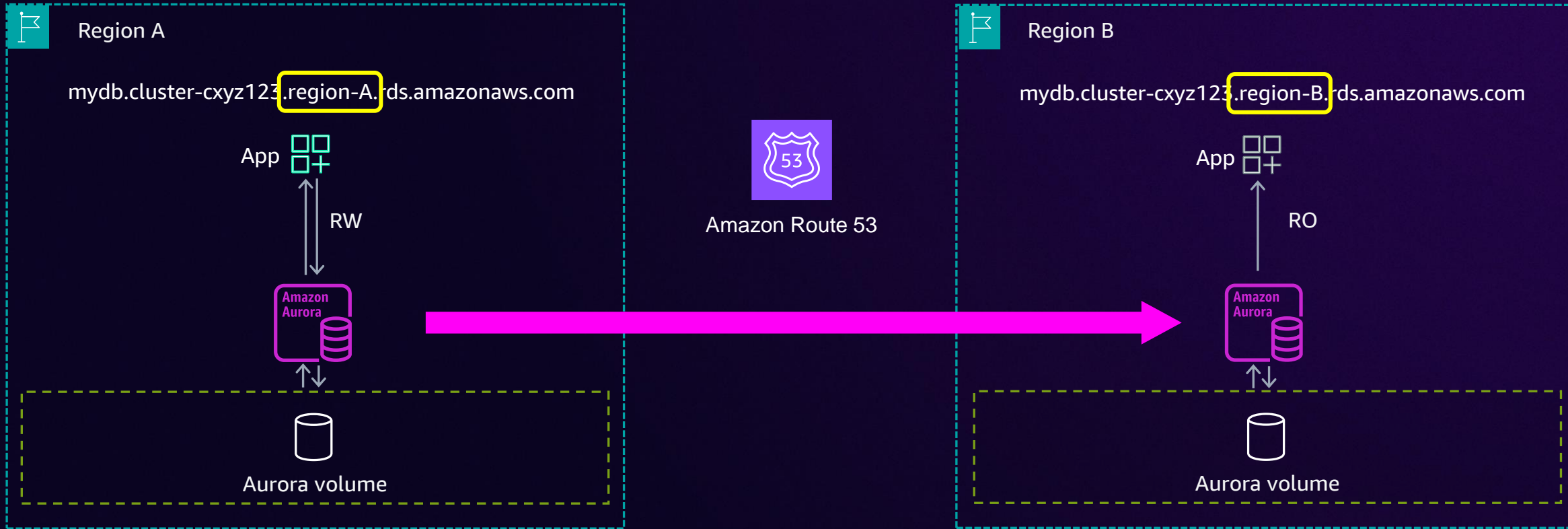
Aurora global database – global endpoint



describe-global-cluster

Aurora global database – global endpoint

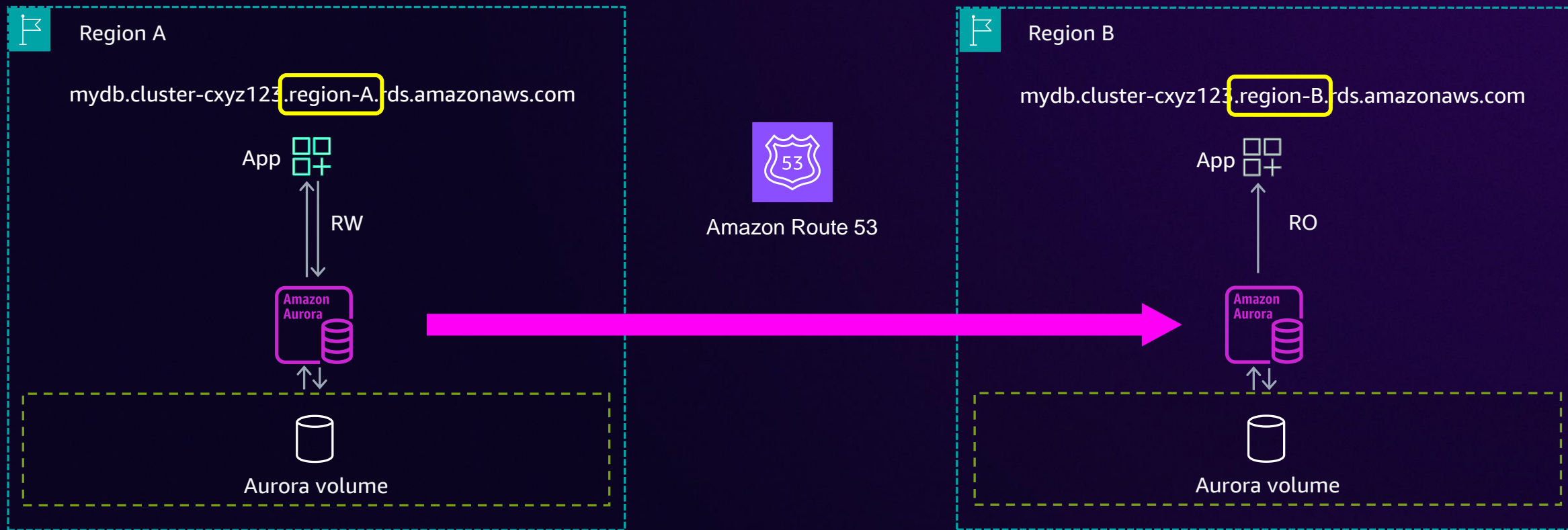
`mydb.global-cdkj133.global.rds.amazonaws.com`



describe-global-cluster

Aurora global database – global endpoint

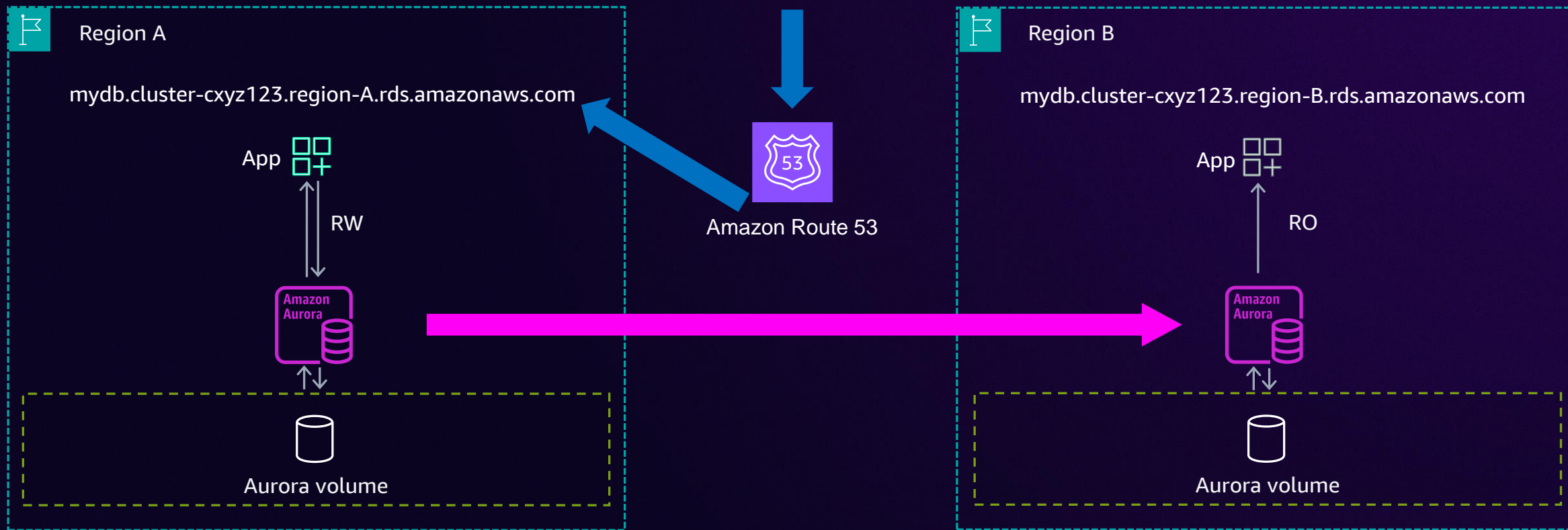
mydb.global-cdkj133.global.rds.amazonaws.com



describe-global-cluster

Aurora global database – global endpoint

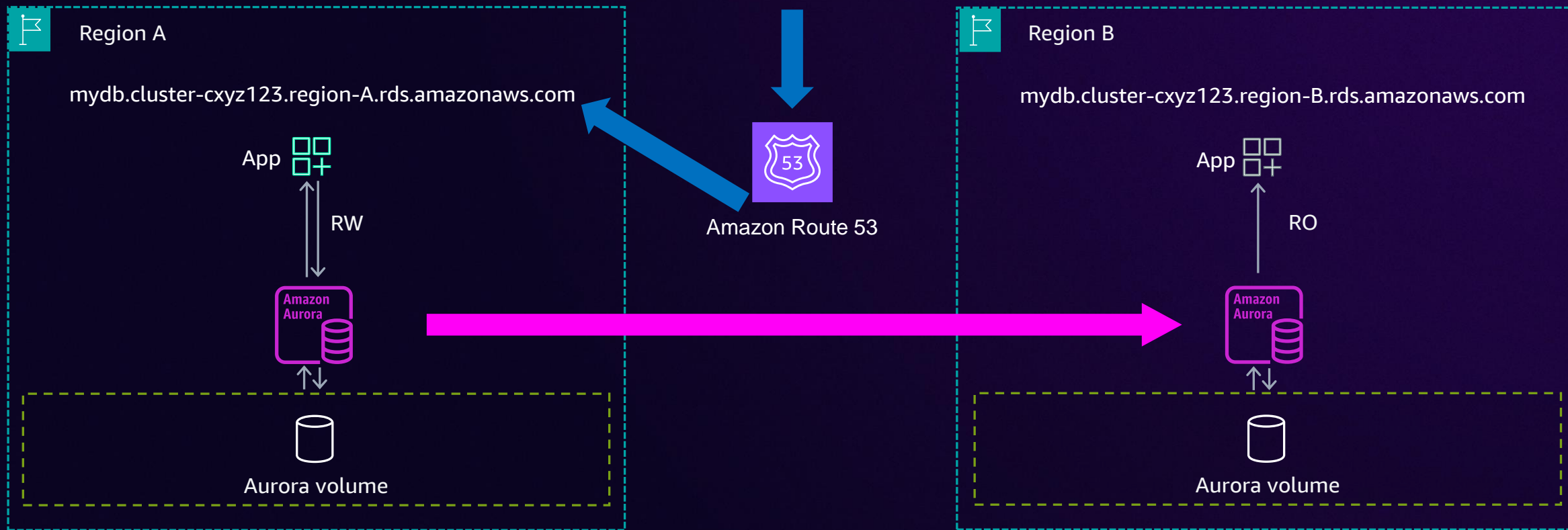
mydb.global-cdkj133.global.rds.amazonaws.com



describe-global-cluster

Aurora global database – global endpoint

`mydb.global-cdkj133.global.rds.amazonaws.com`

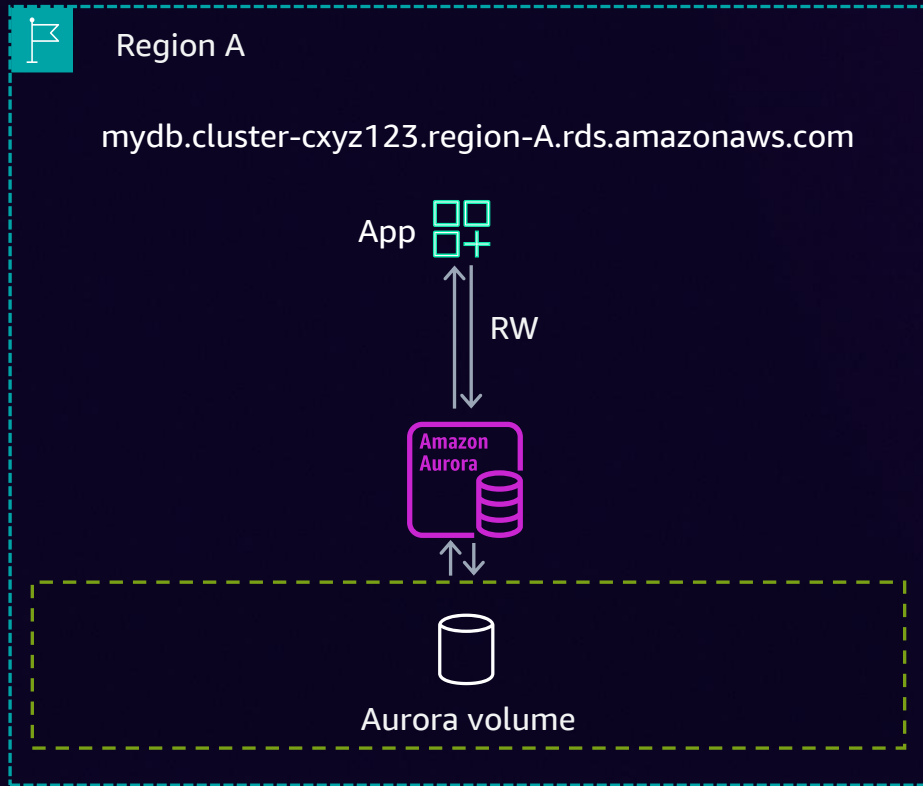


describe-global-cluster

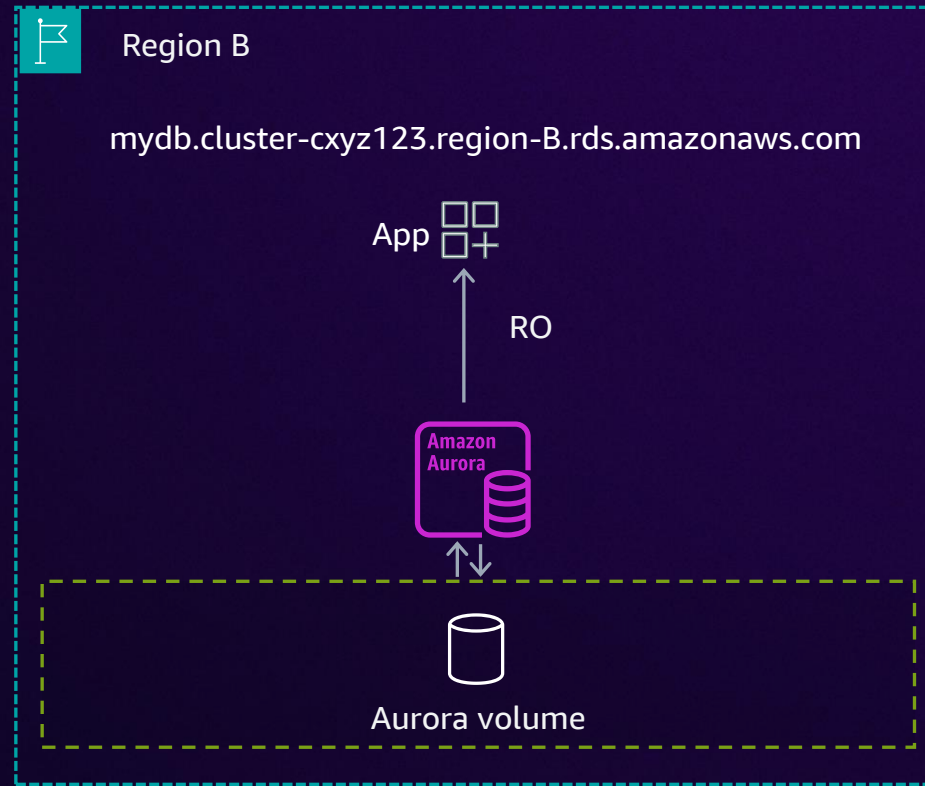
**switchover-global-cluster
or
failover-global-cluster**

Aurora global database – global endpoint

`mydb.global-cdkj133.global.rds.amazonaws.com`



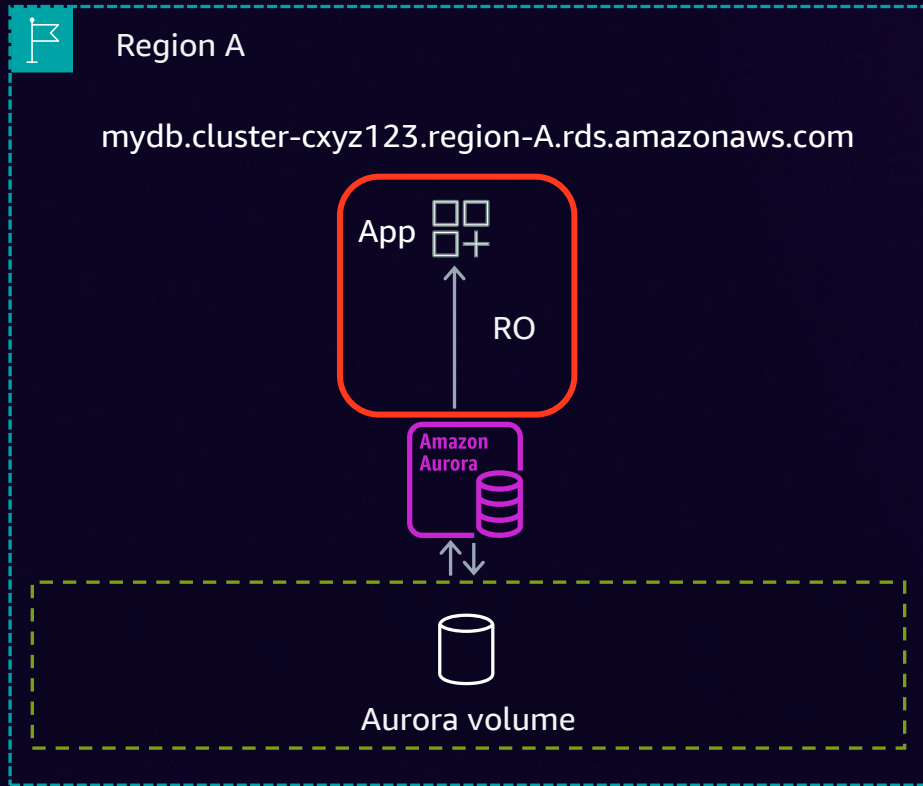
describe-global-cluster



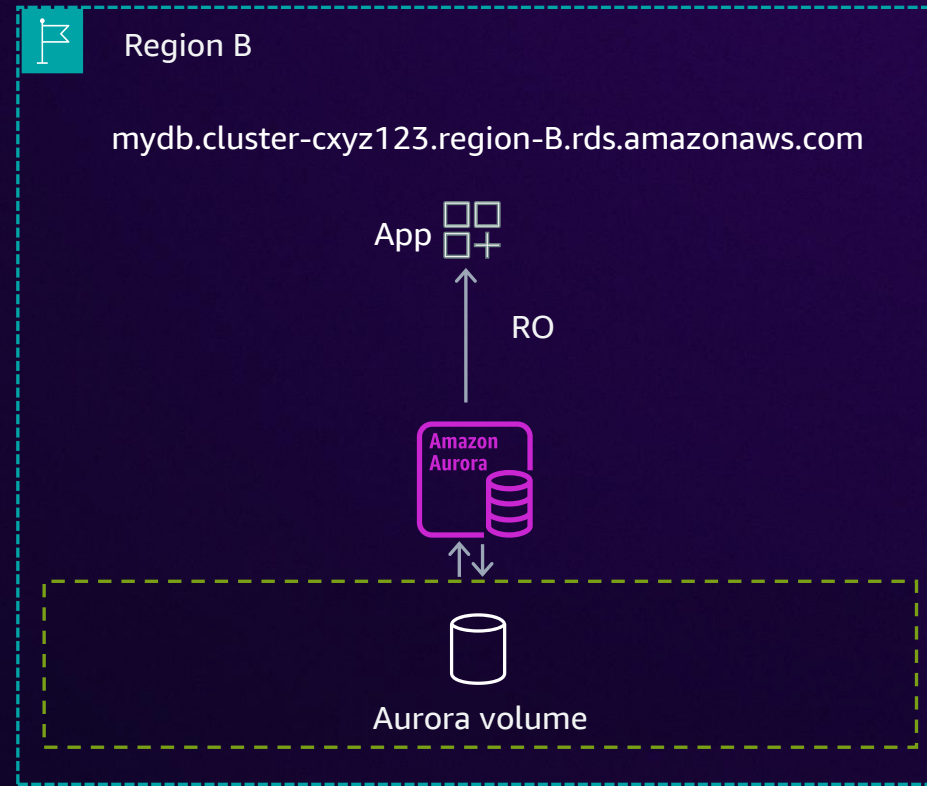
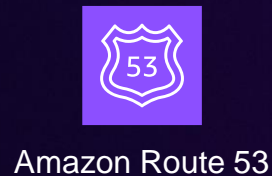
**switchover-global-cluster
or
failover-global-cluster**

Aurora global database – global endpoint

`mydb.global-cdkj133.global.rds.amazonaws.com`



describe-global-cluster



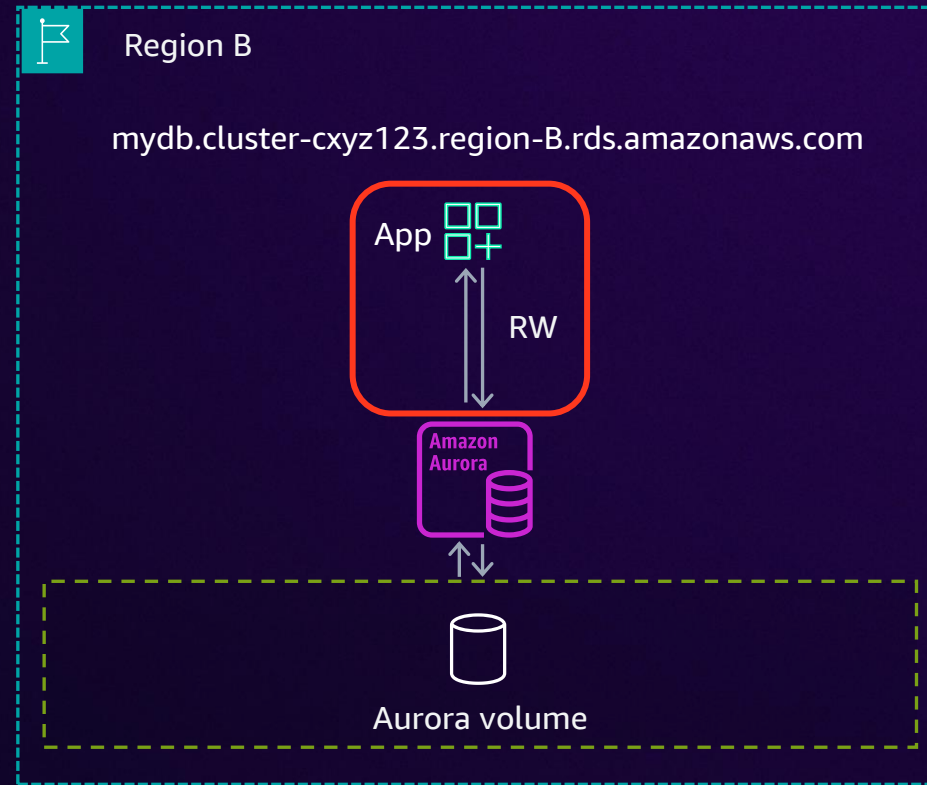
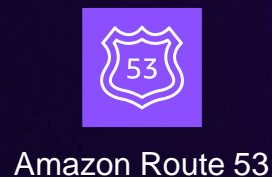
**switchover-global-cluster
or
failover-global-cluster**

Aurora global database – global endpoint

`mydb.global-cdkj133.global.rds.amazonaws.com`



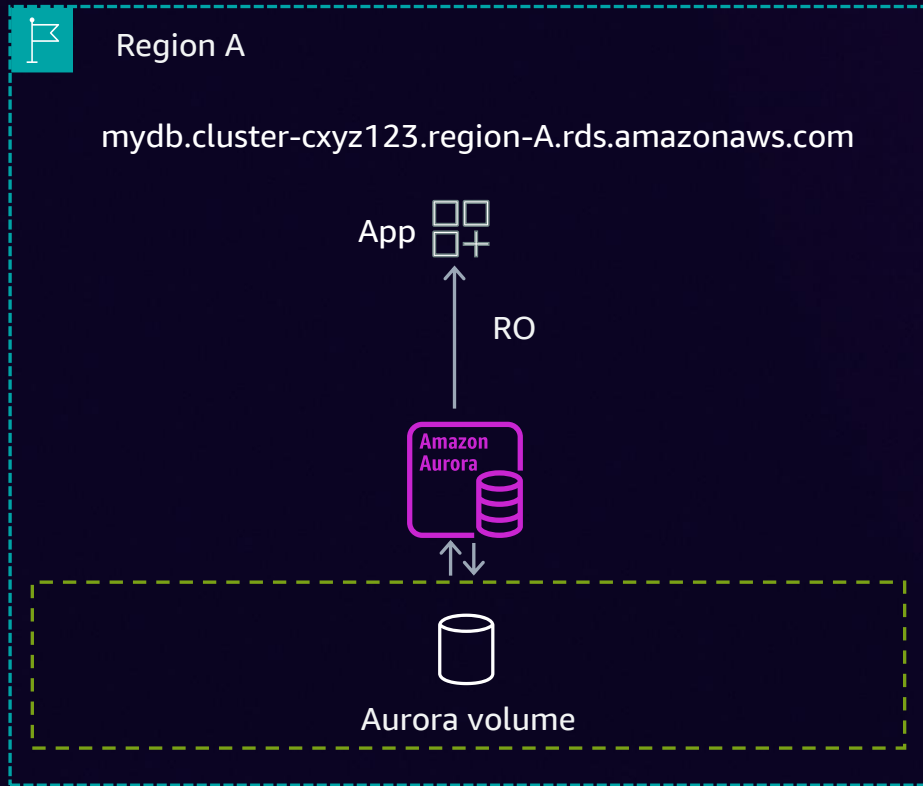
describe-global-cluster



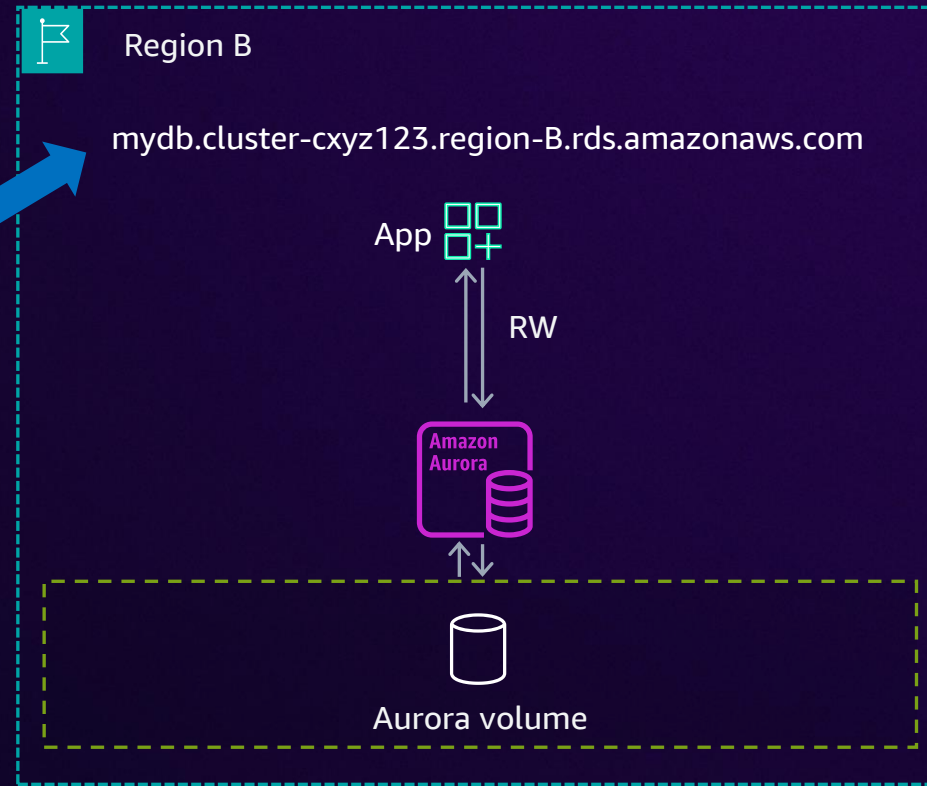
**switchover-global-cluster
or
failover-global-cluster**

Aurora global database – global endpoint

`mydb.global-cdkj133.global.rds.amazonaws.com`

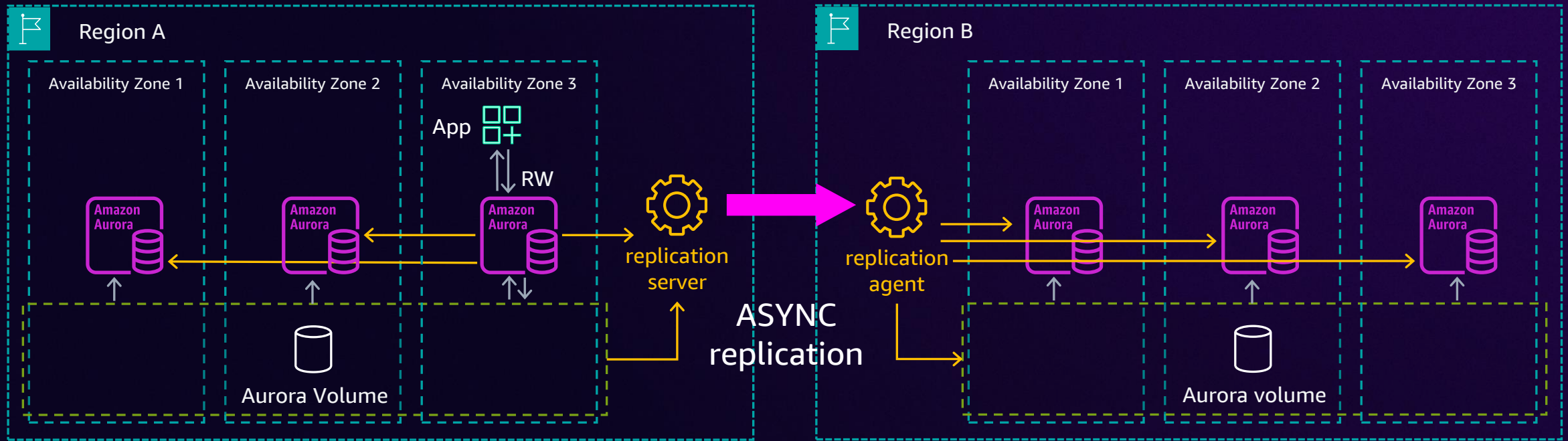


describe-global-cluster



**switchover-global-cluster
or
failover-global-cluster**

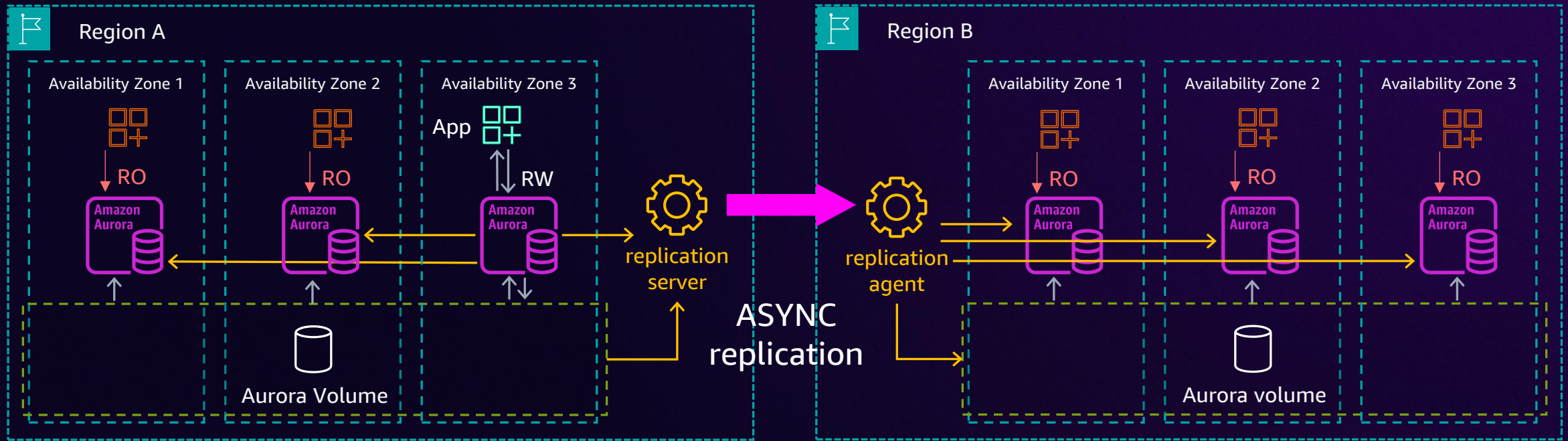
Aurora global database – Read resiliency



RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

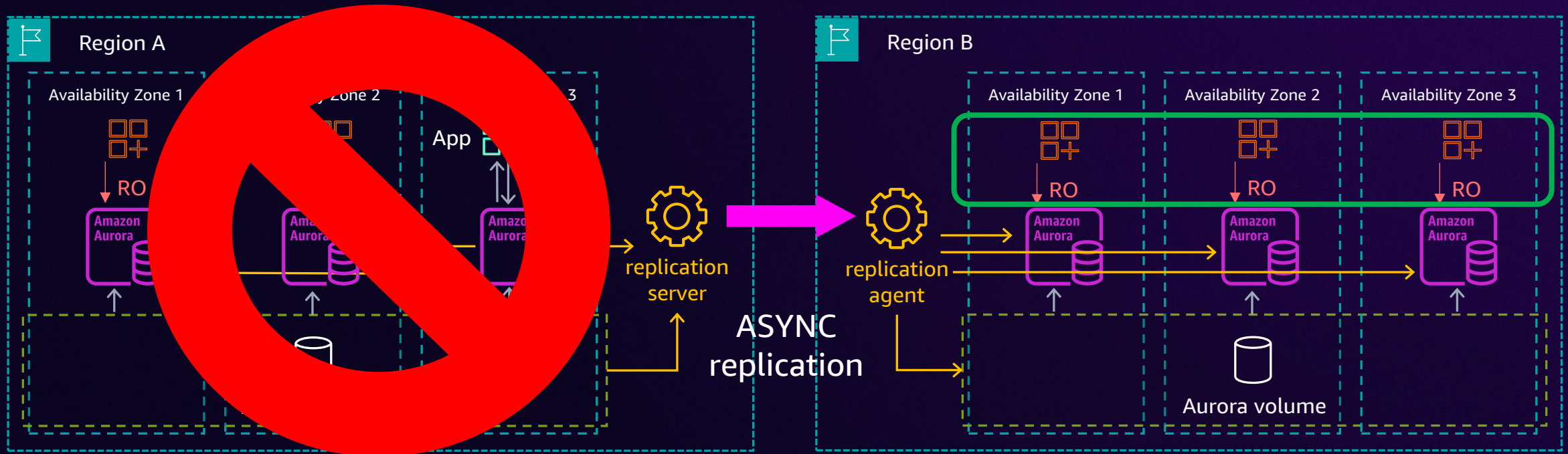
Aurora global database – Read resiliency



RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

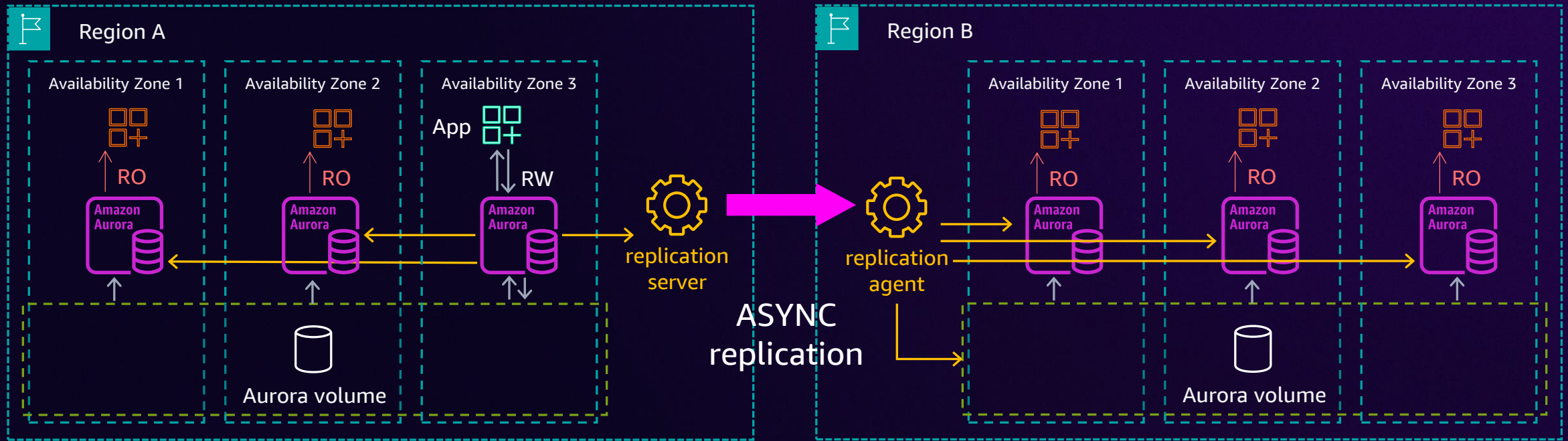
Aurora global database – Read resiliency



RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

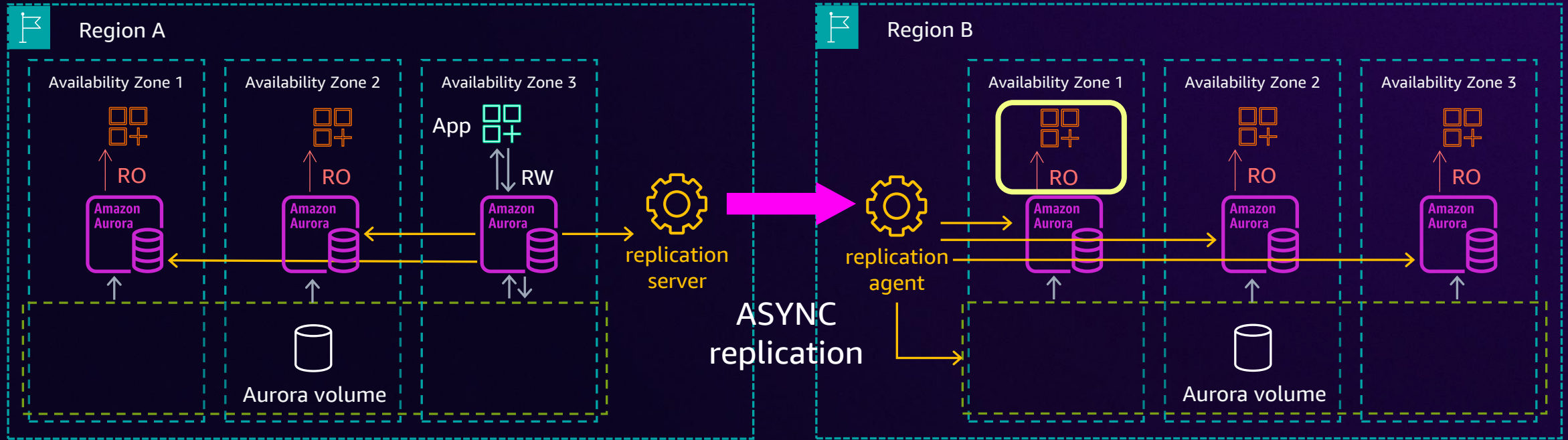
Aurora global database – Write forwarding



RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

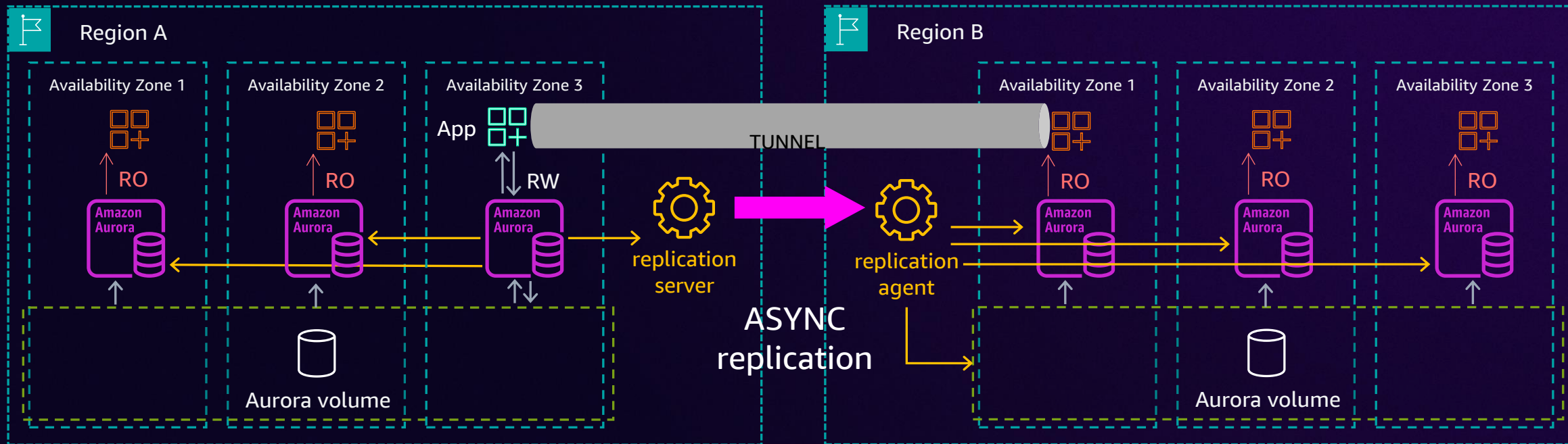
Aurora global database – Write forwarding



RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

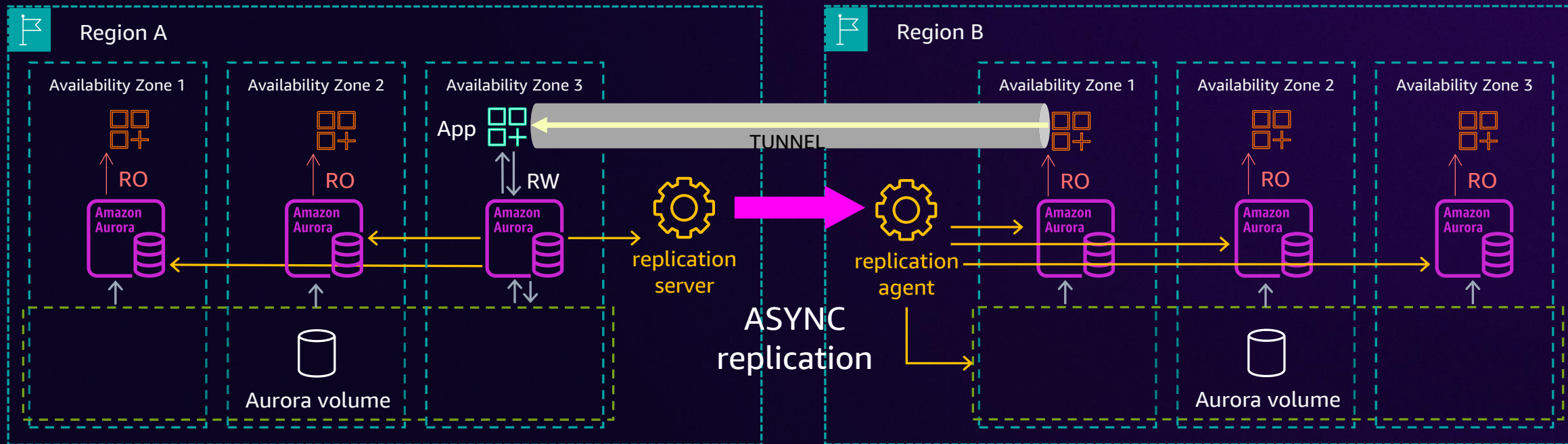
Aurora global database – Write forwarding



RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

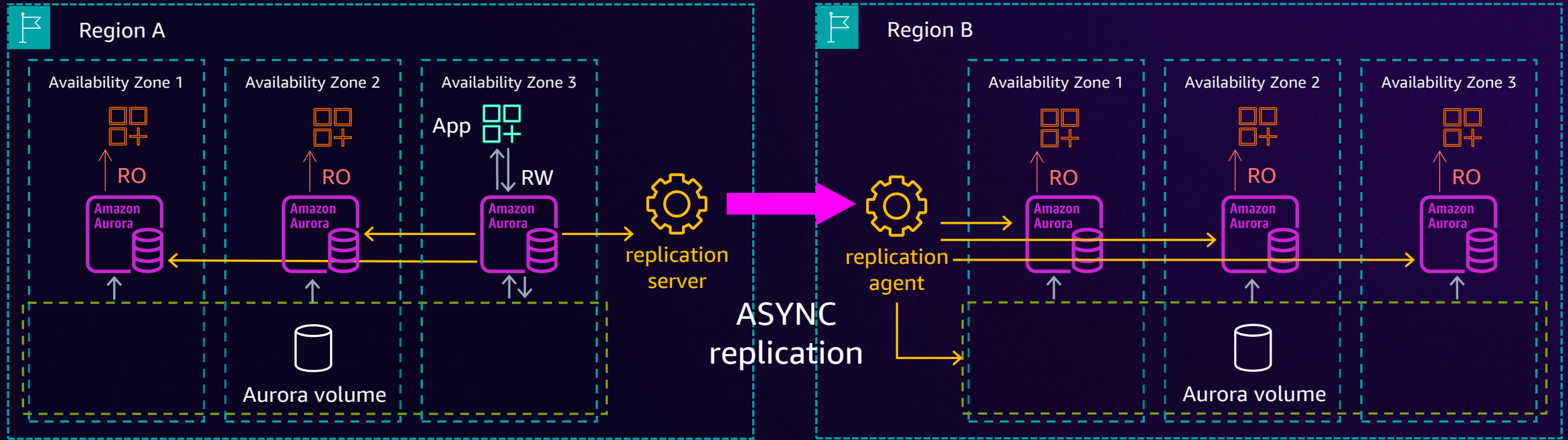
Aurora global database – Write forwarding



RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

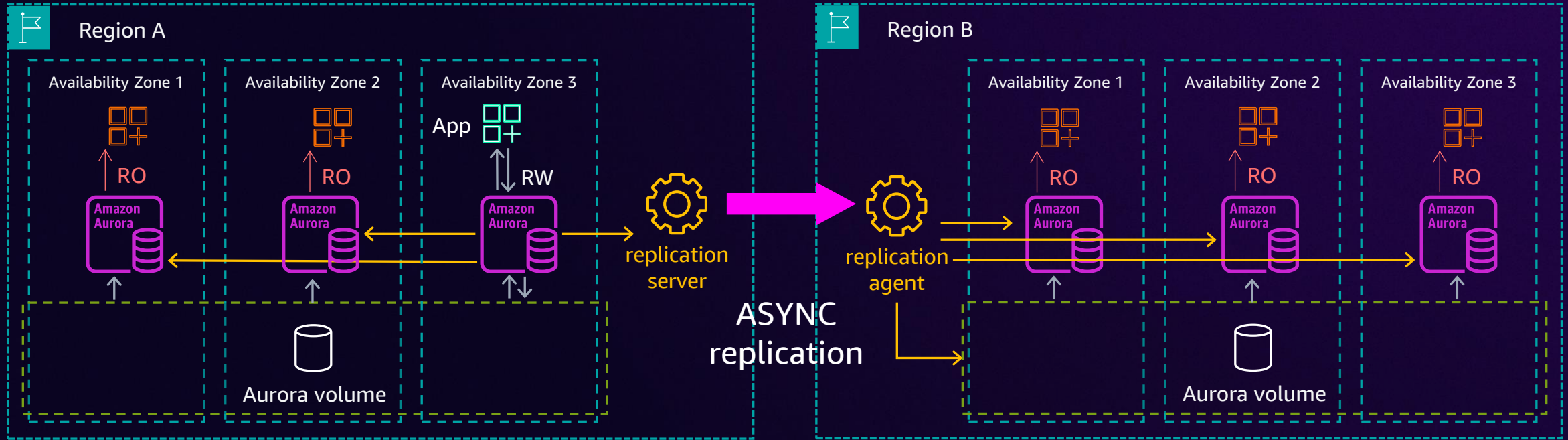
Aurora global database – Write forwarding



RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Write forwarding

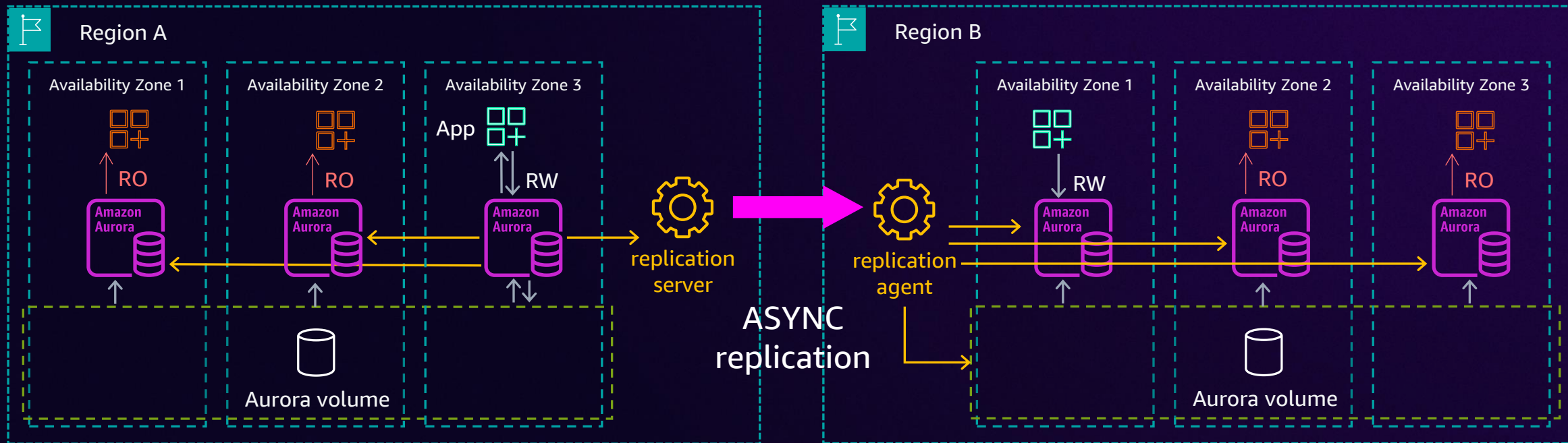


--enable-global-write-forwarding

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Write forwarding

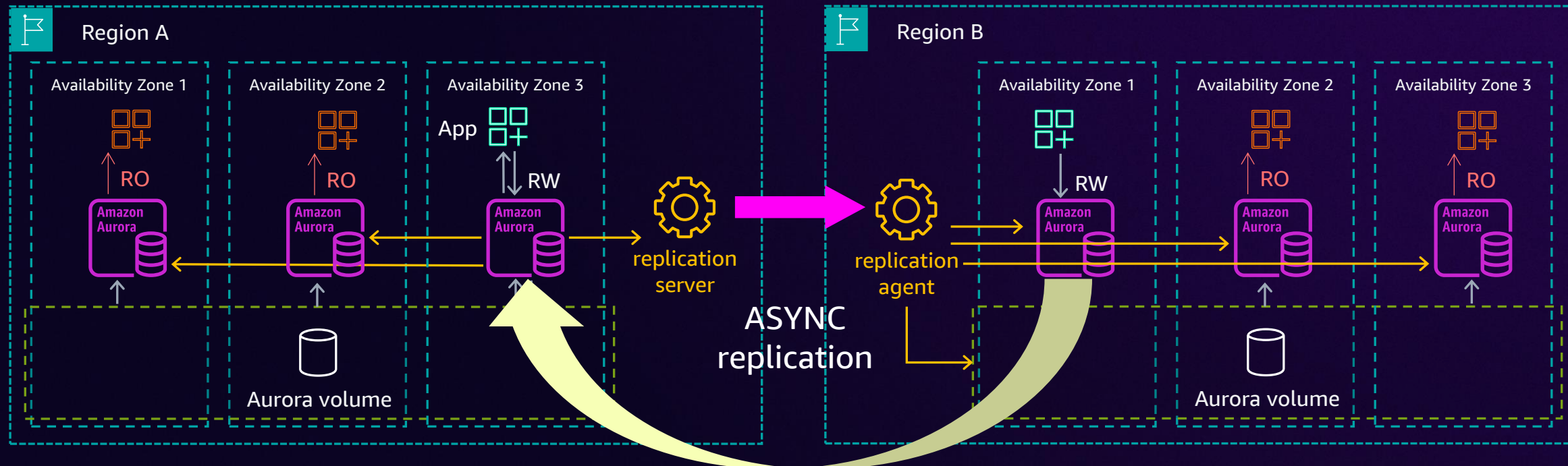


--enable-global-write-forwarding

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Write forwarding

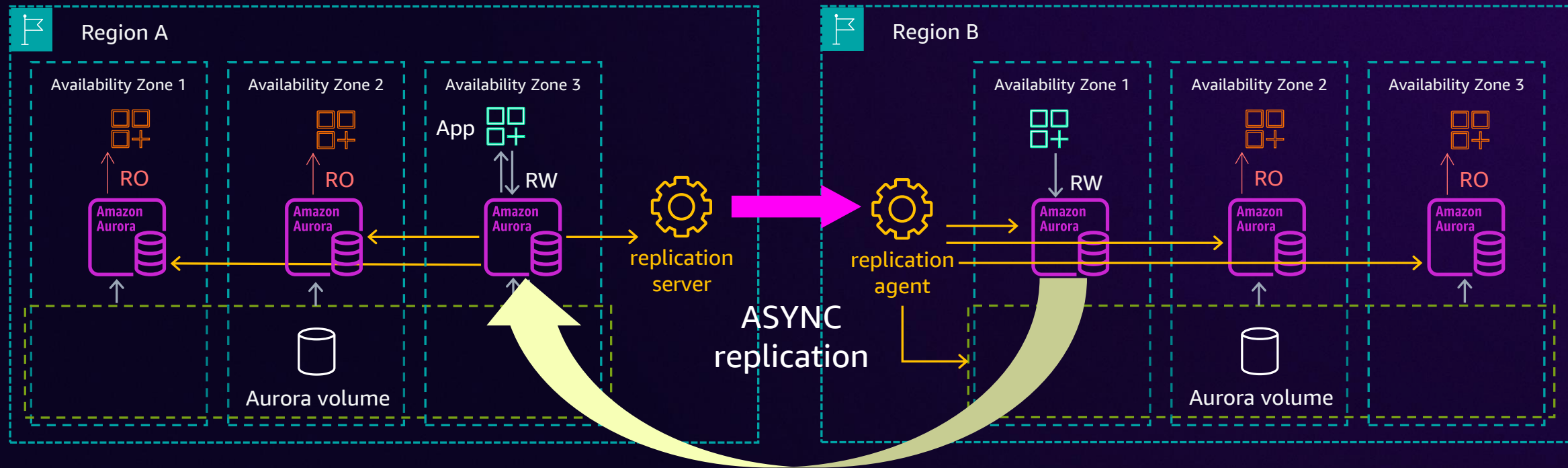


--enable-global-write-forwarding

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Write forwarding

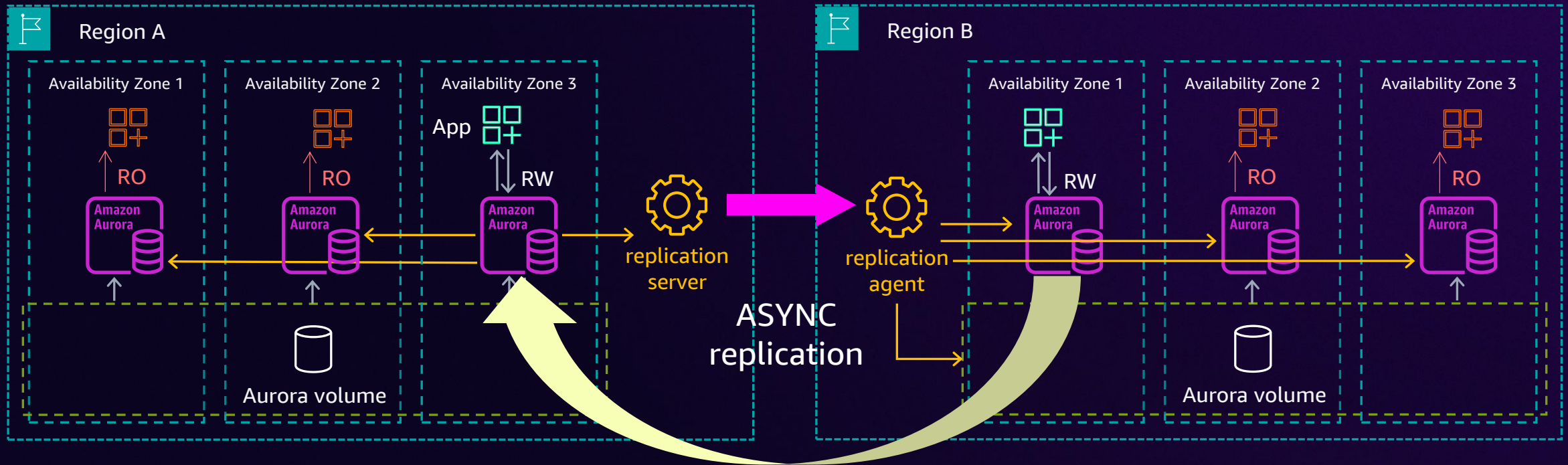


--enable-global-write-forwarding

RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

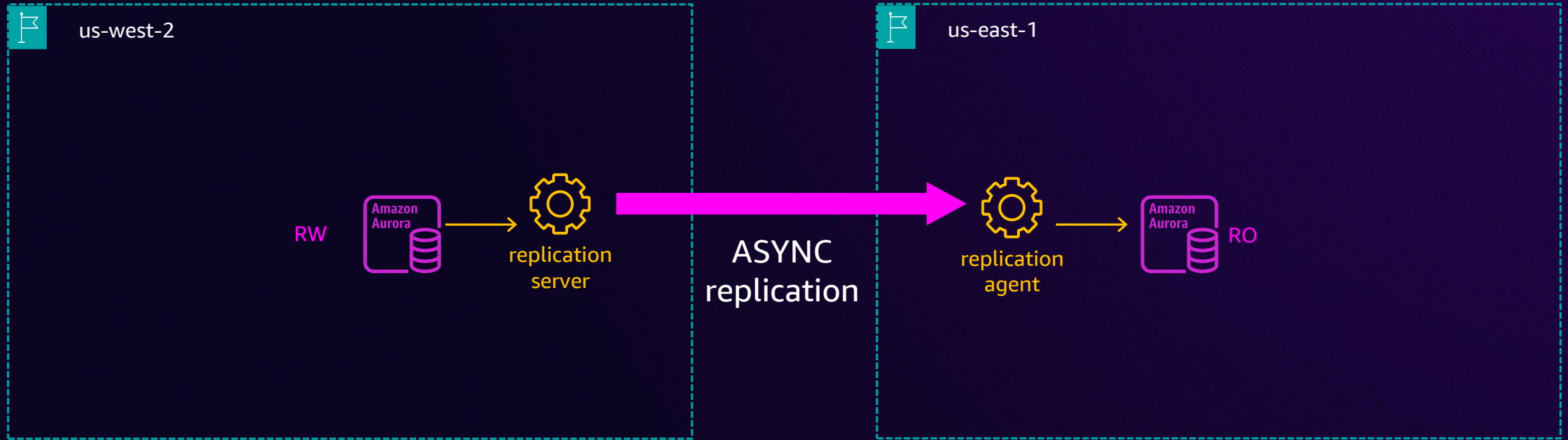
Aurora global database – Write forwarding



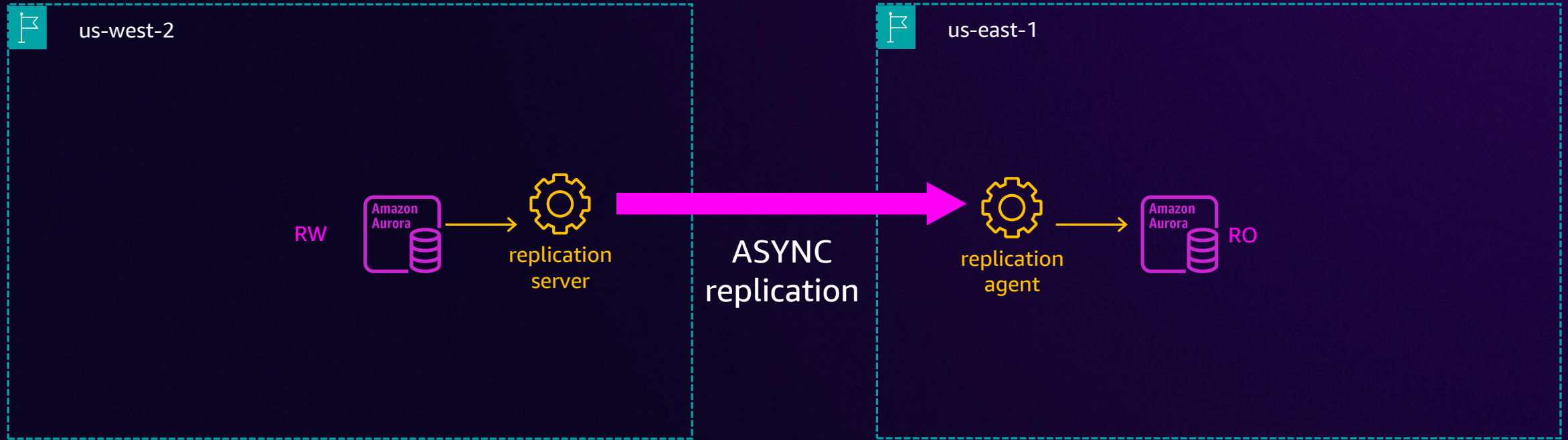
RTO \approx 2+ minutes

RPO \approx sub 1 second for replication lag + network partition time

Aurora global database – Session read visibility

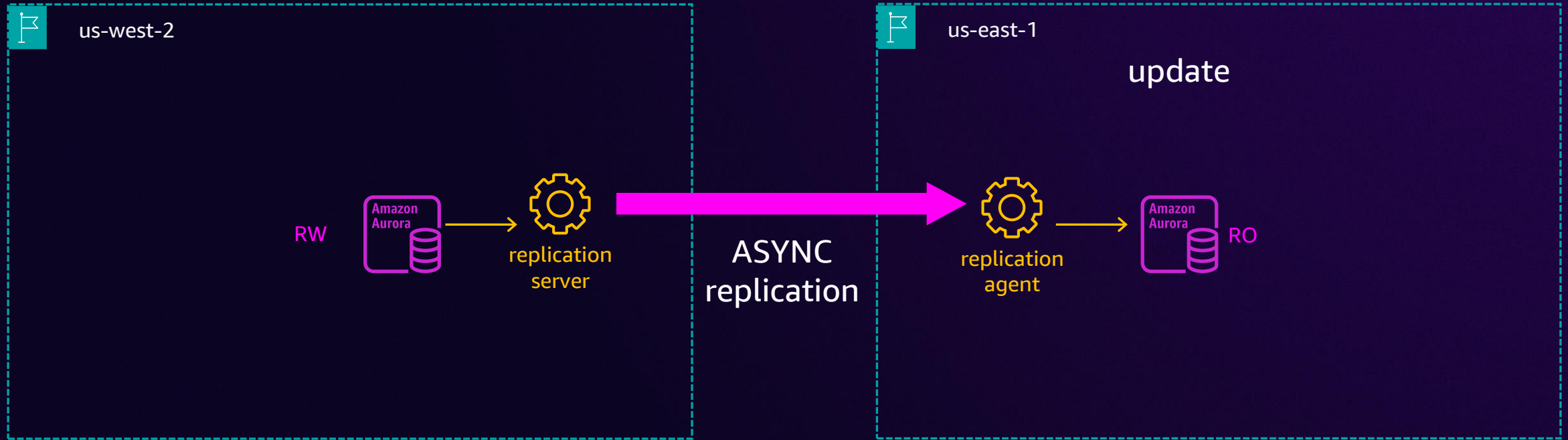


Aurora global database – Session read visibility



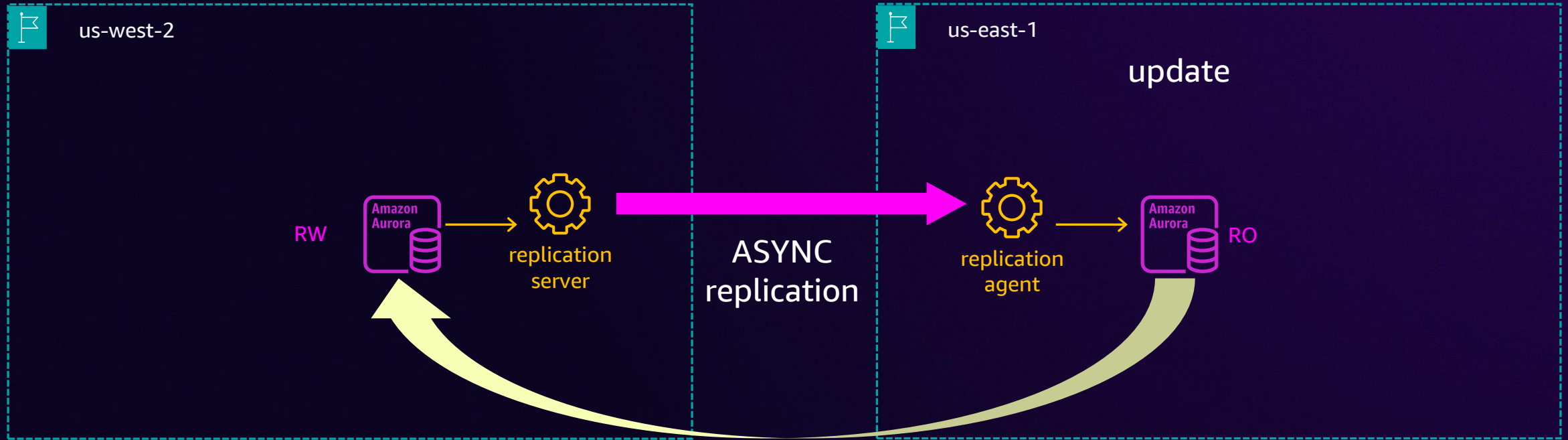
`apg_write_forward.consistency_mode=session`

Aurora global database – Session read visibility



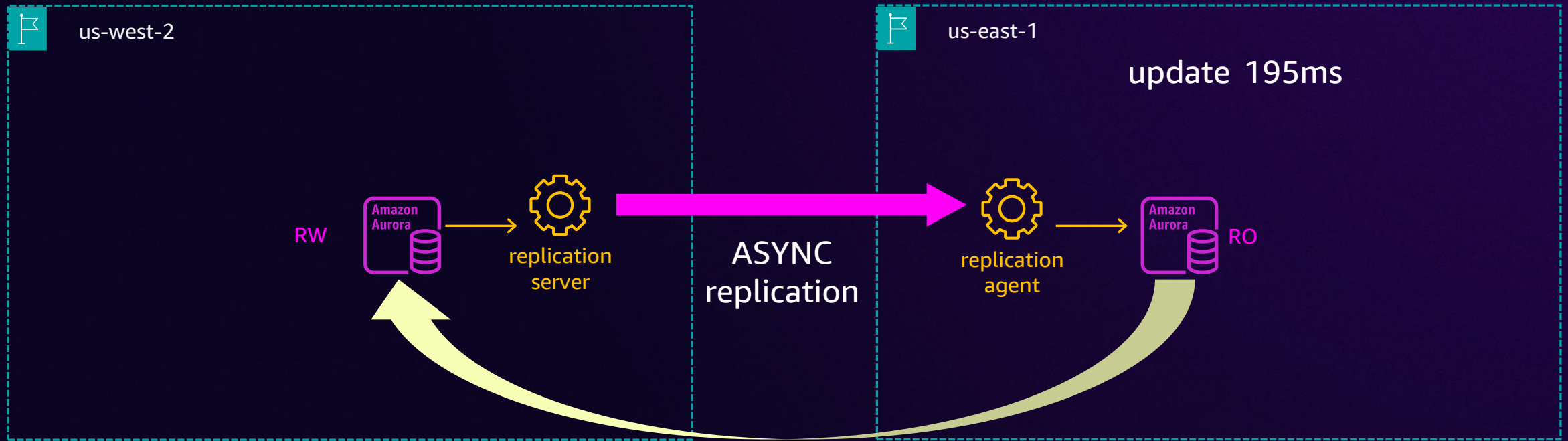
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Aurora global database – Session read visibility



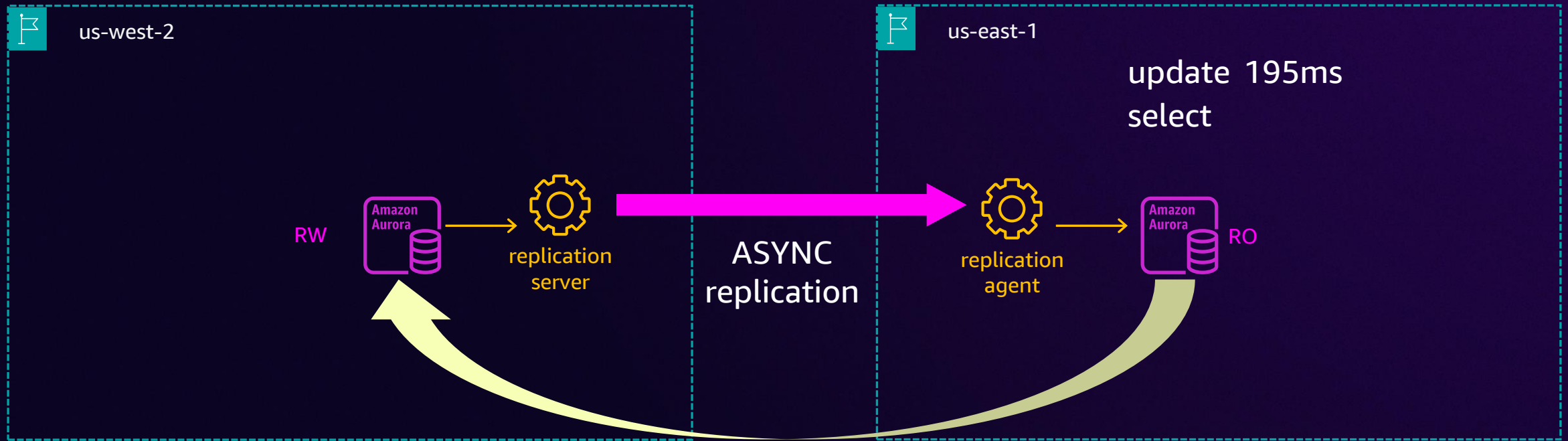
`apg_write_forward.consistency_mode=session`

Aurora global database – Session read visibility



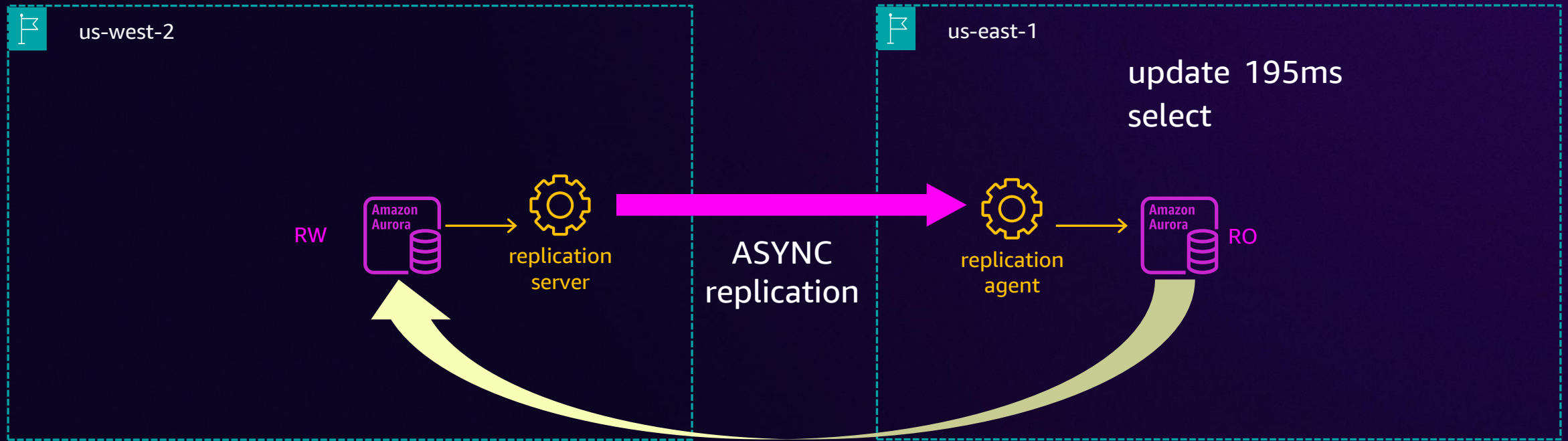
`apg_write_forward.consistency_mode=session`

Aurora global database – Session read visibility



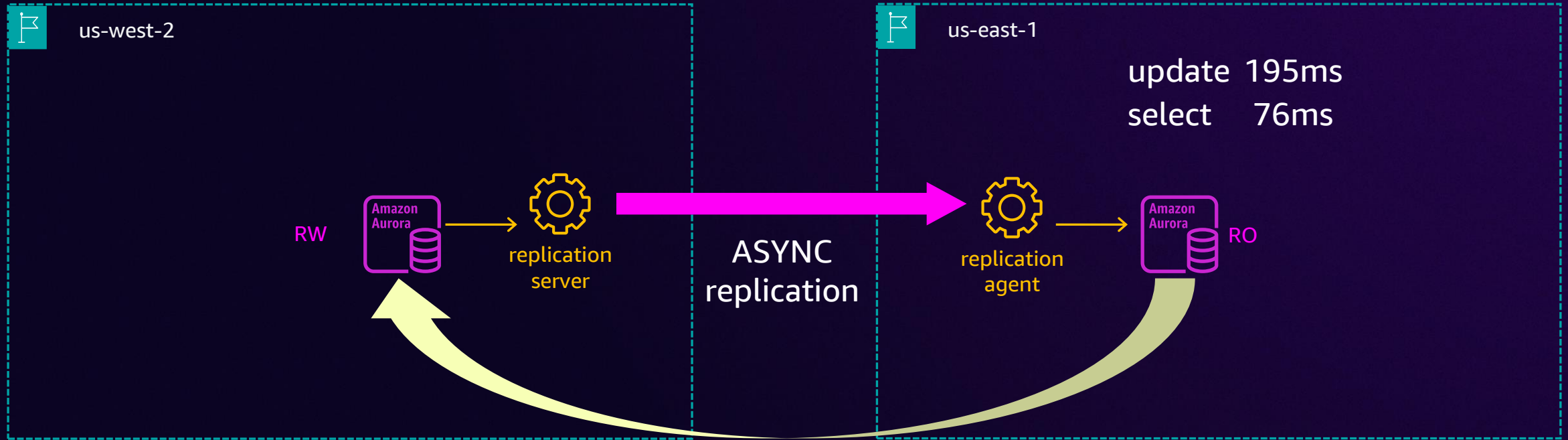
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Aurora global database – Session read visibility



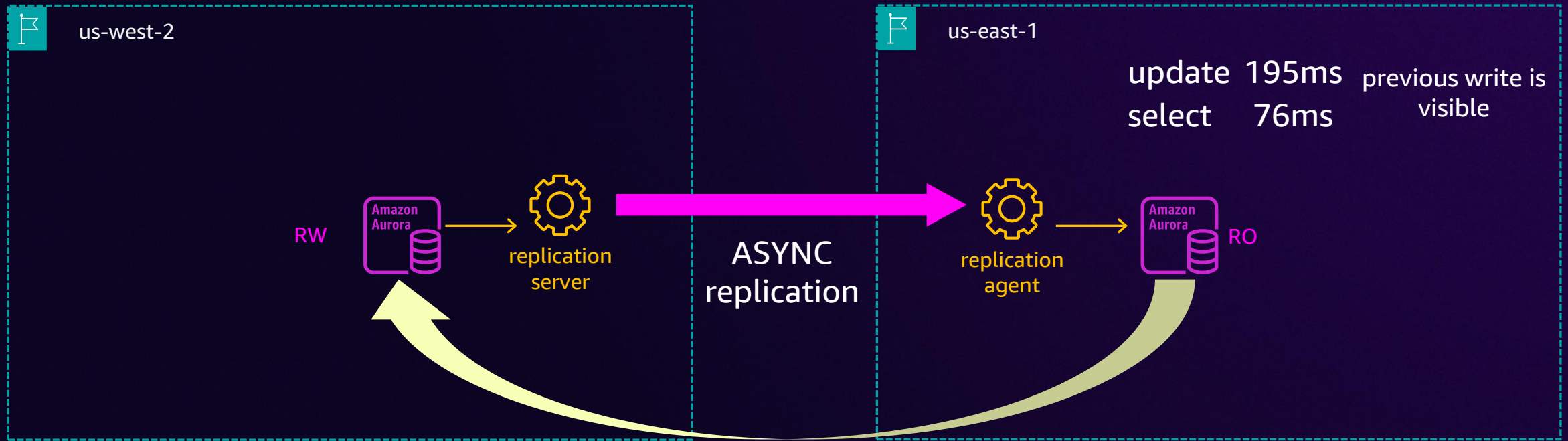
`apg_write_forward.consistency_mode=session`

Aurora global database – Session read visibility



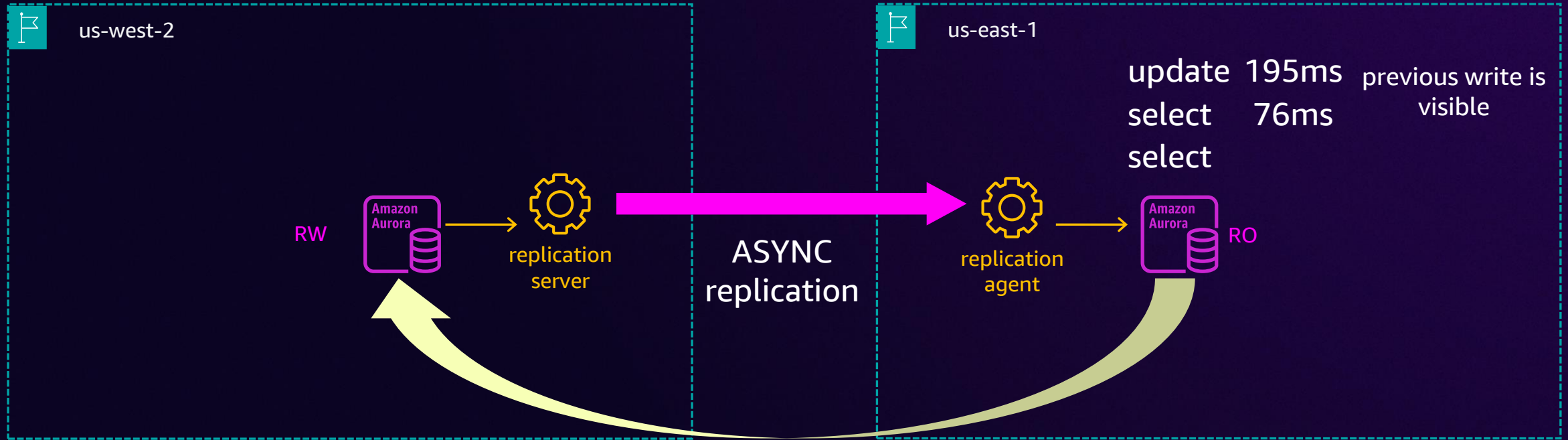
`apg_write_forward.consistency_mode=session`

Aurora global database – Session read visibility

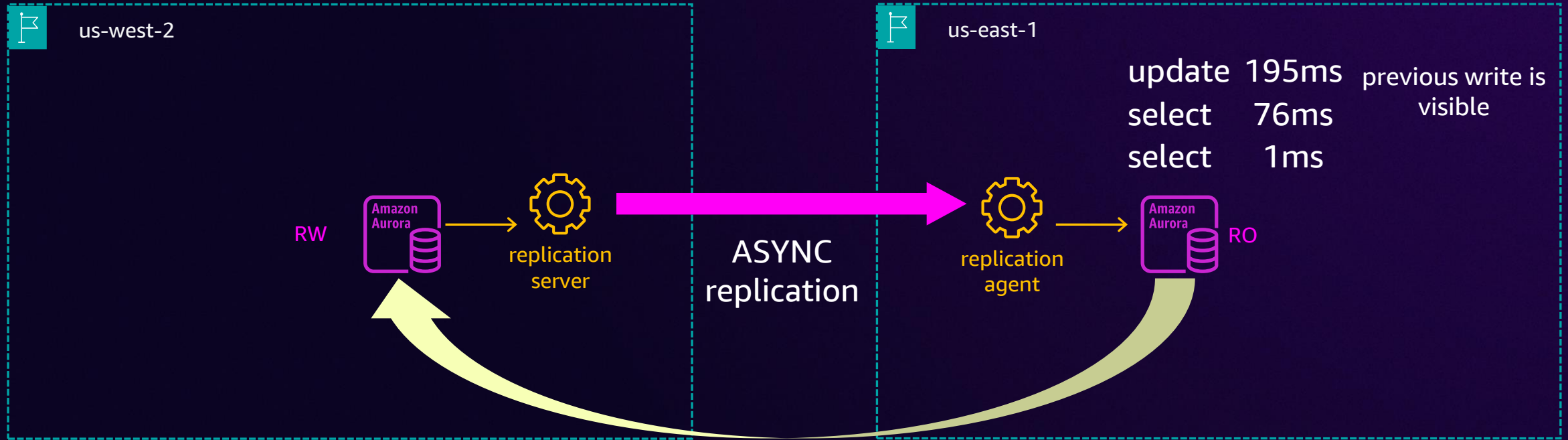


`apg_write_forward.consistency_mode=session`

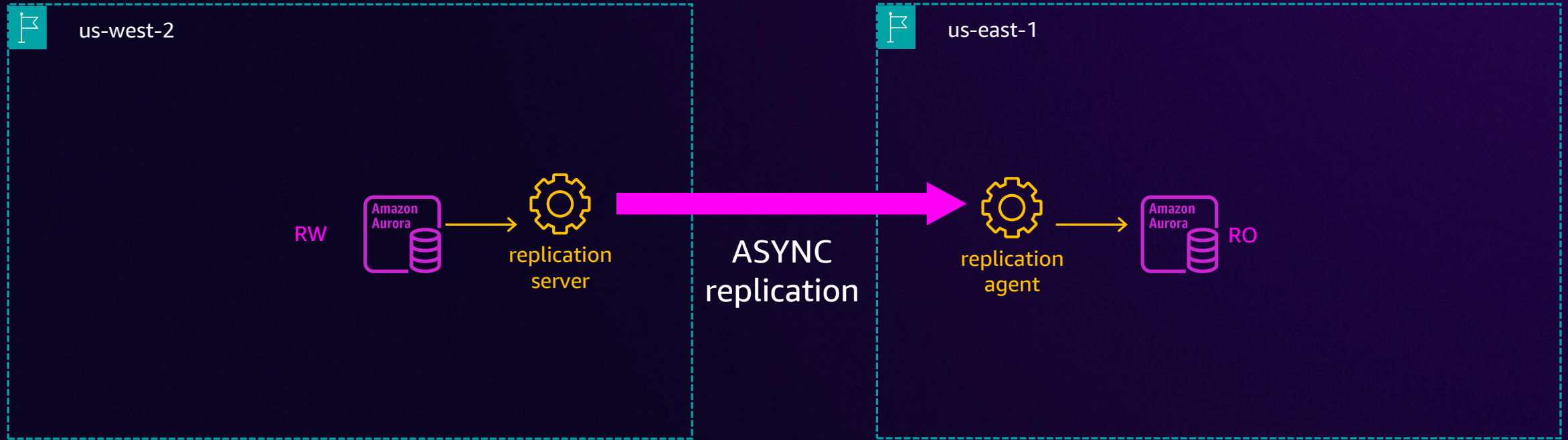
Aurora global database – Session read visibility



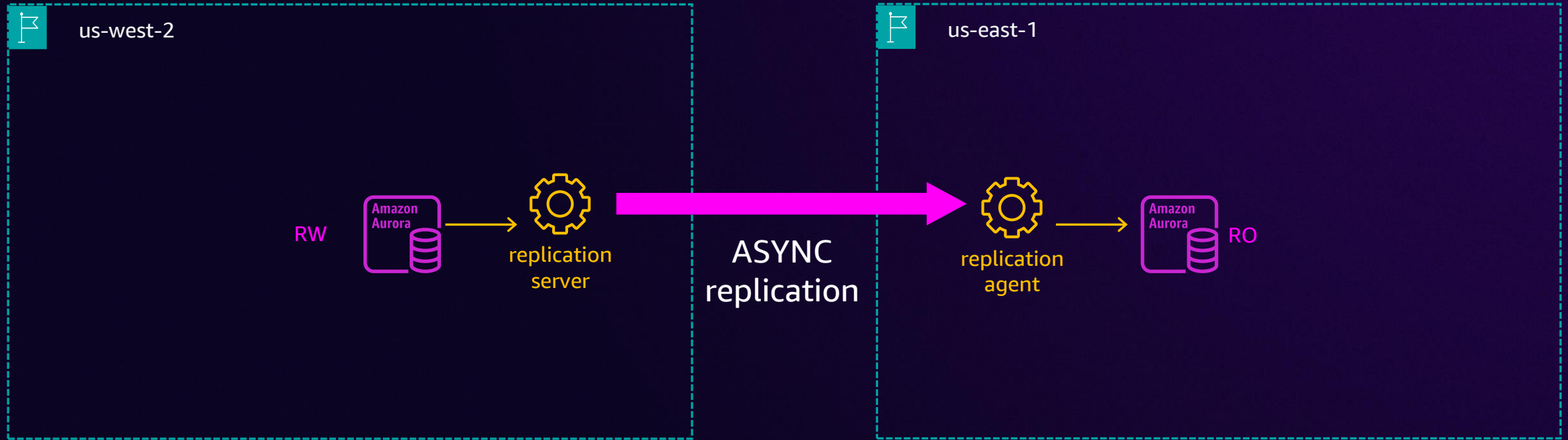
Aurora global database – Session read visibility



Aurora global database – Eventual read visibility

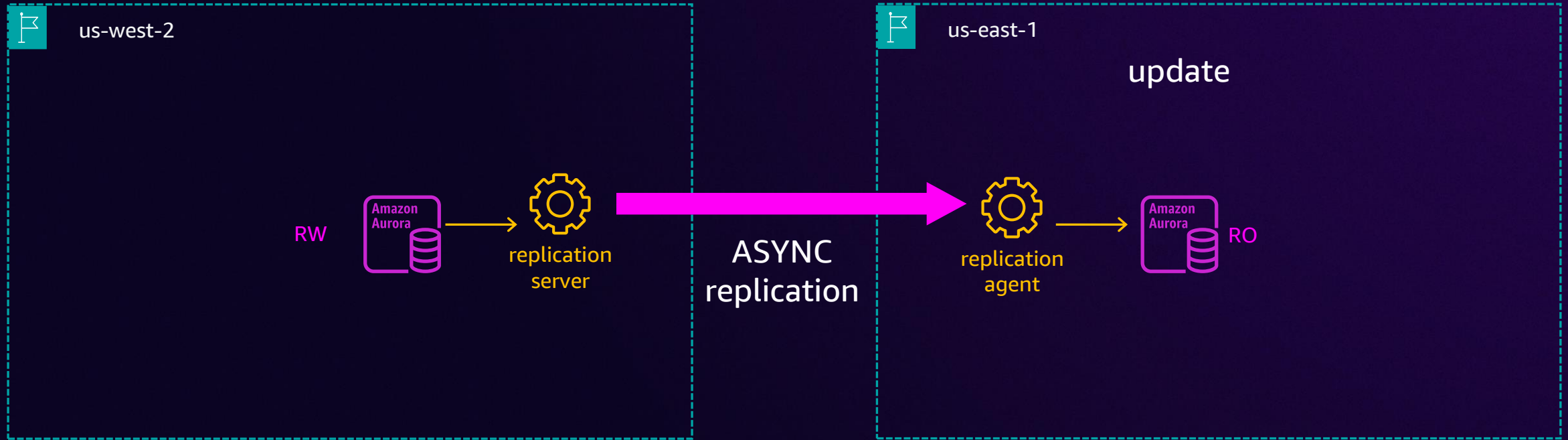


Aurora global database – Eventual read visibility



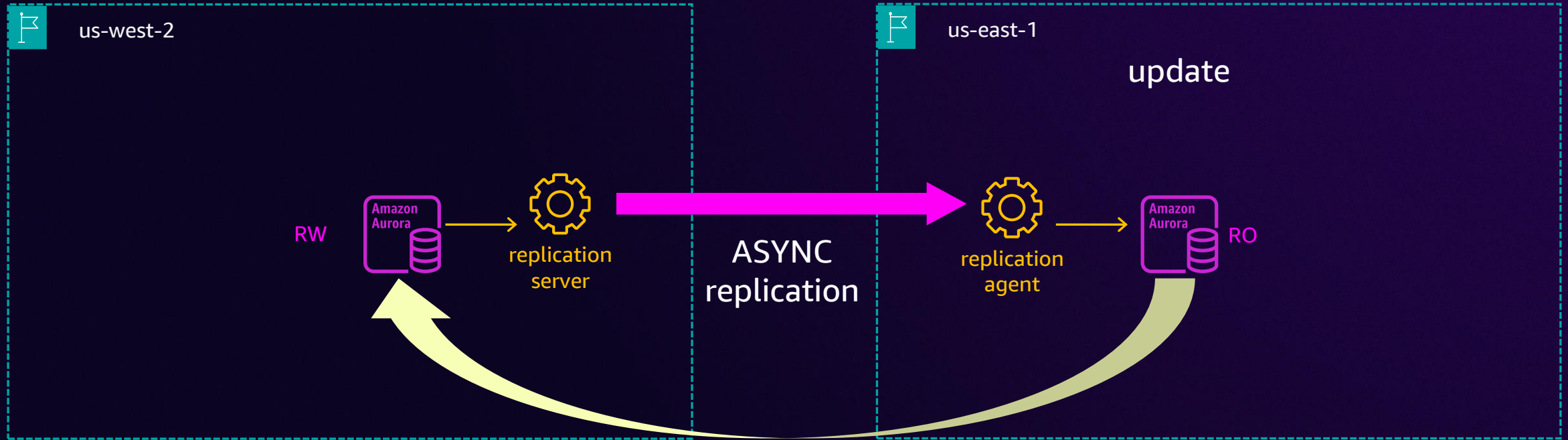
`apg_write_forward.consistency_mode=eventual`

Aurora global database – Eventual read visibility



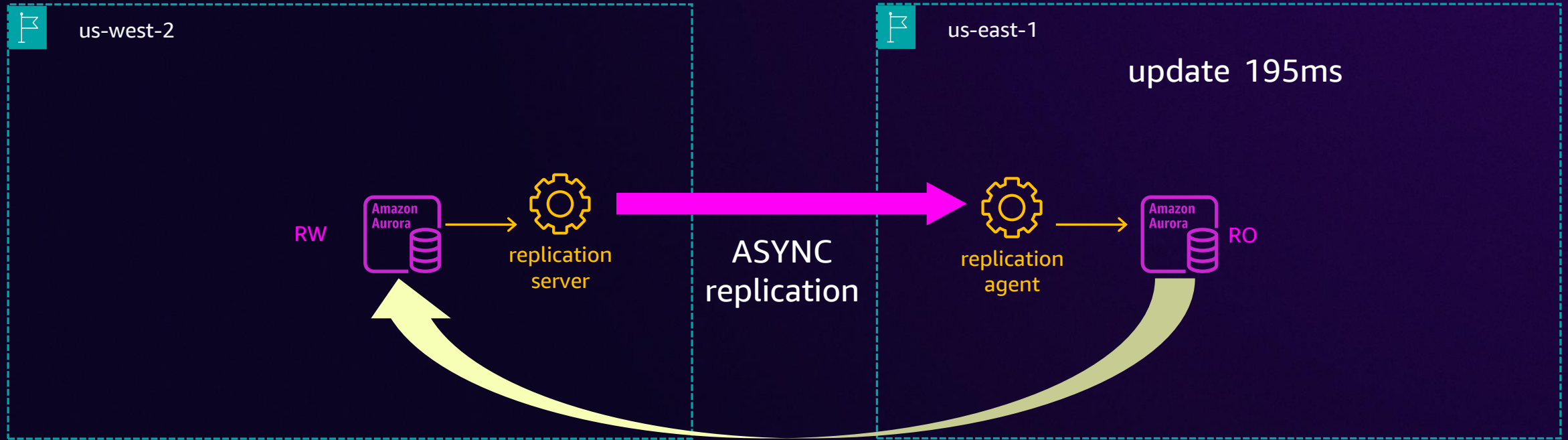
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Aurora global database – Eventual read visibility



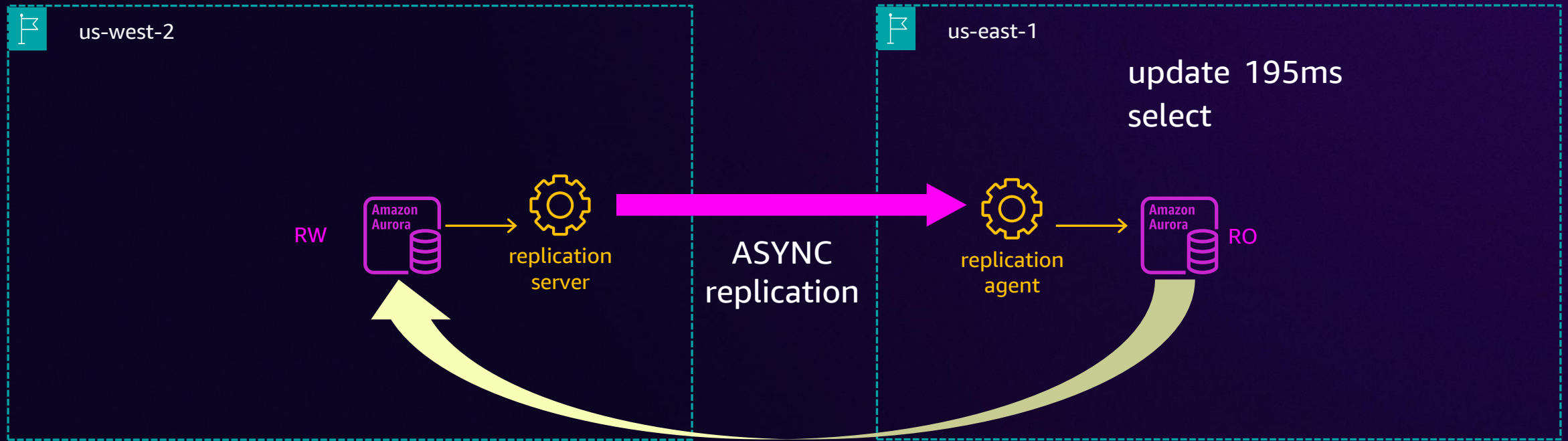
`apg_write_forward.consistency_mode=eventual`

Aurora global database – Eventual read visibility



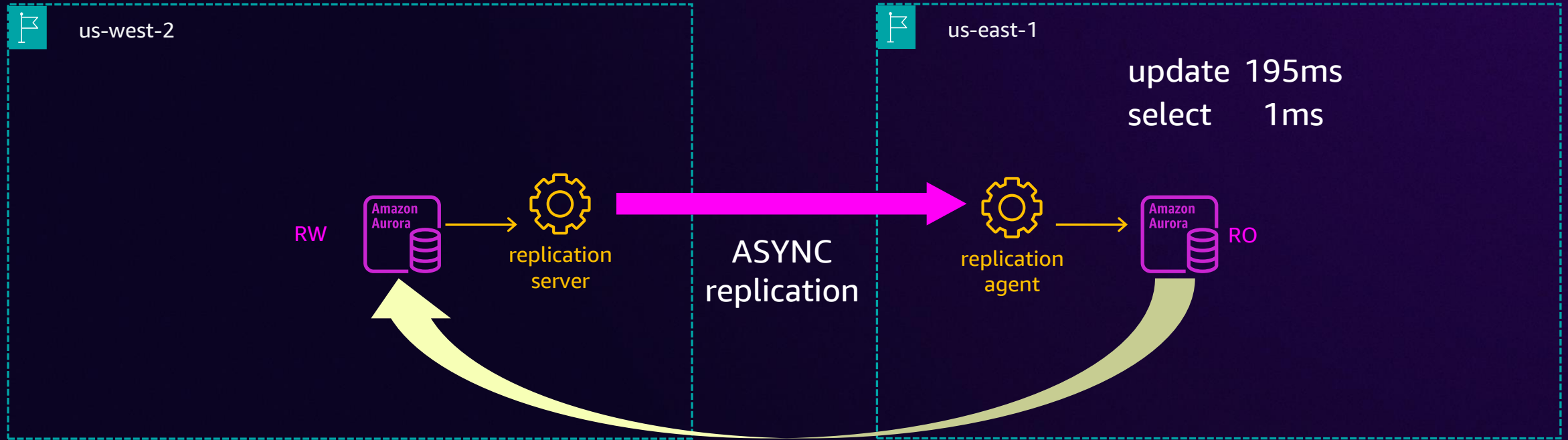
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Aurora global database – Eventual read visibility



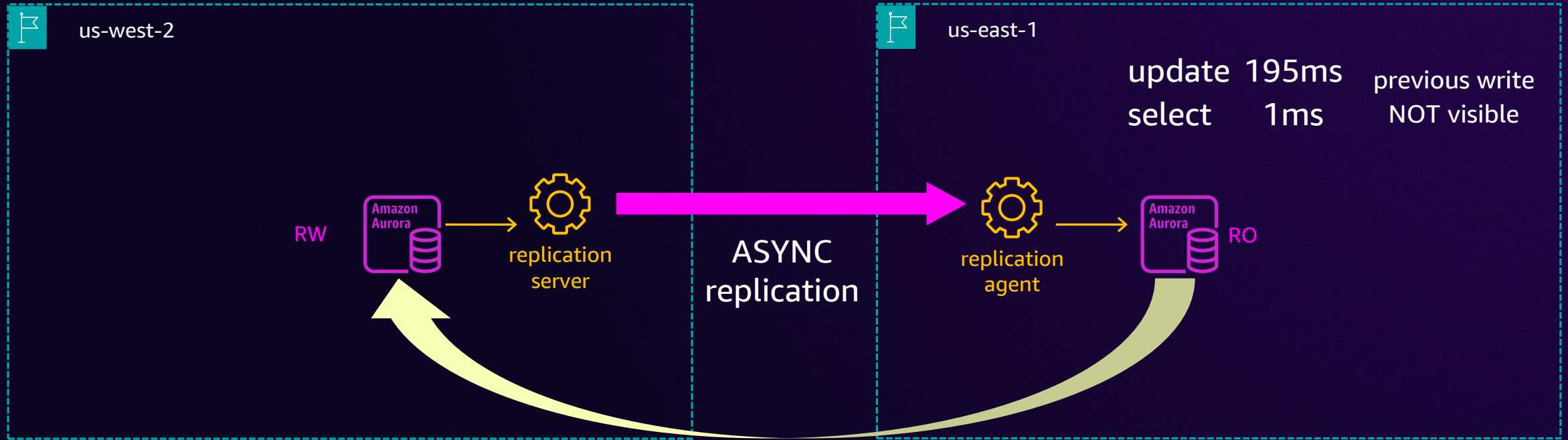
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Aurora global database – Eventual read visibility



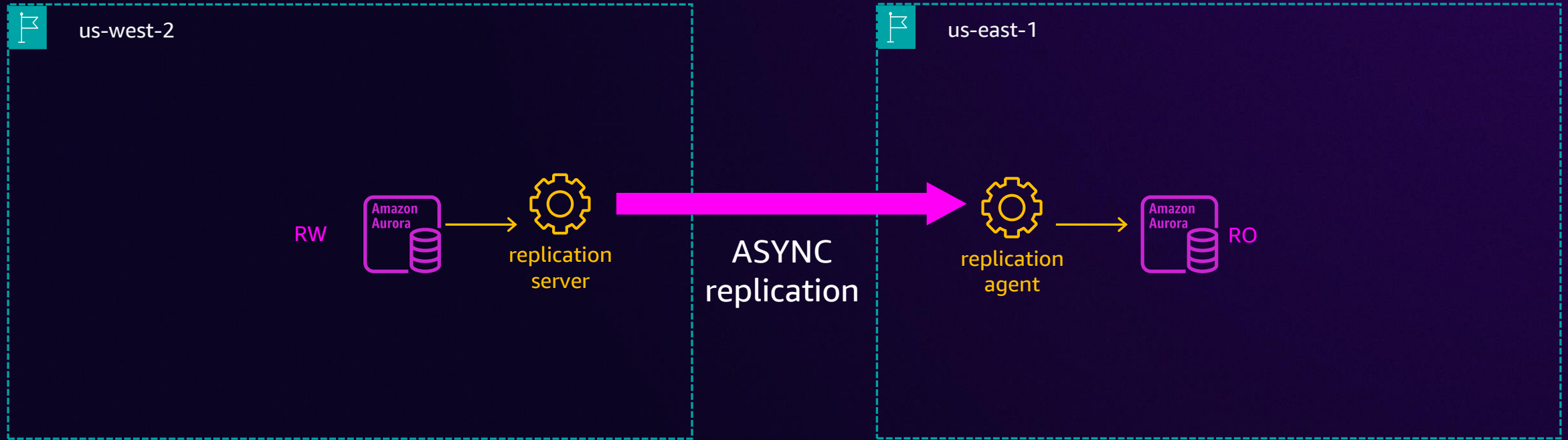
`apg_write_forward.consistency_mode=eventual`

Aurora global database – Eventual read visibility

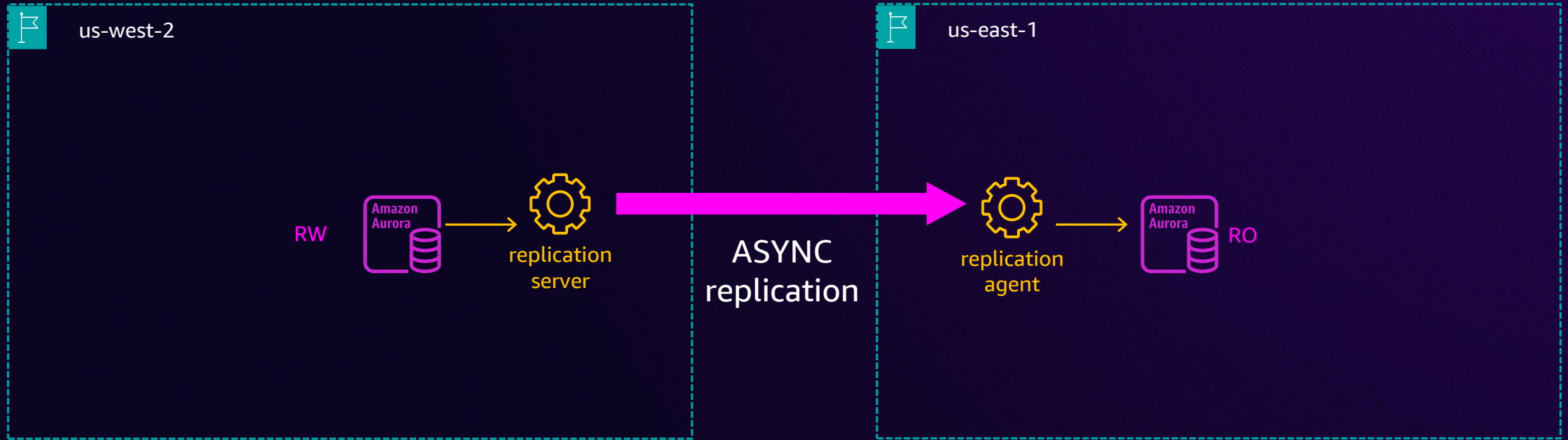


`apg_write_forward.consistency_mode=eventual`

Aurora global database – Global read visibility

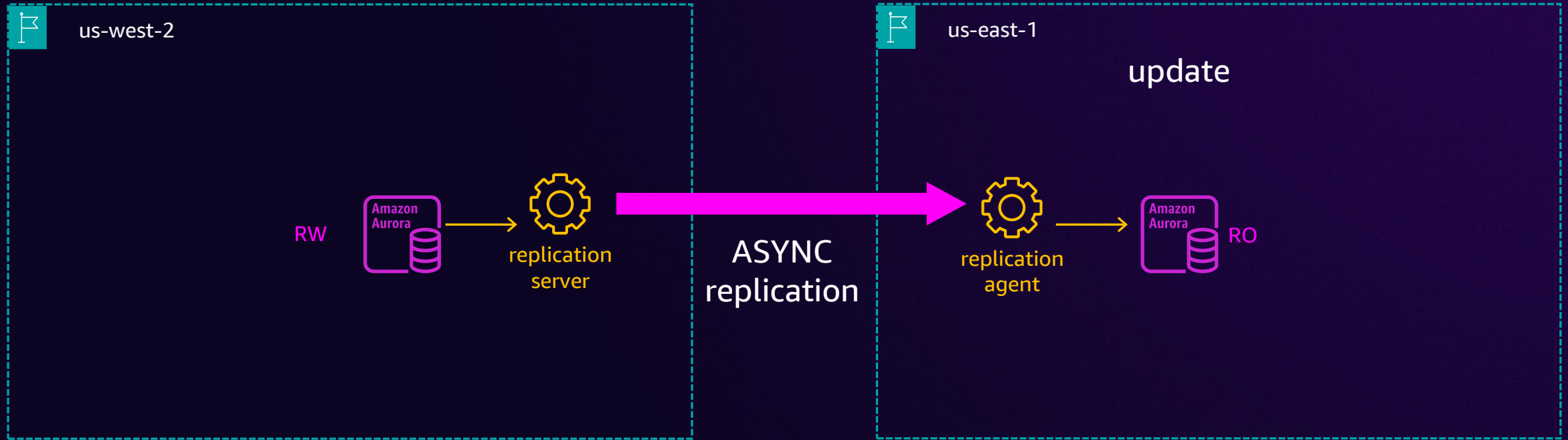


Aurora global database – Global read visibility



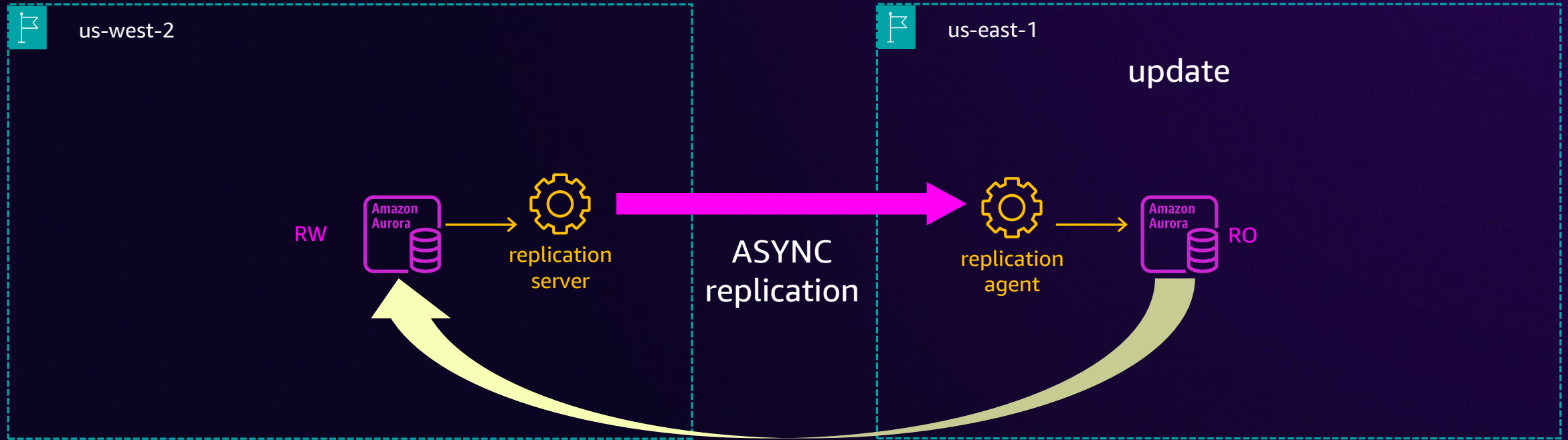
`apg_write_forward.consistency_mode=global`

Aurora global database – Global read visibility



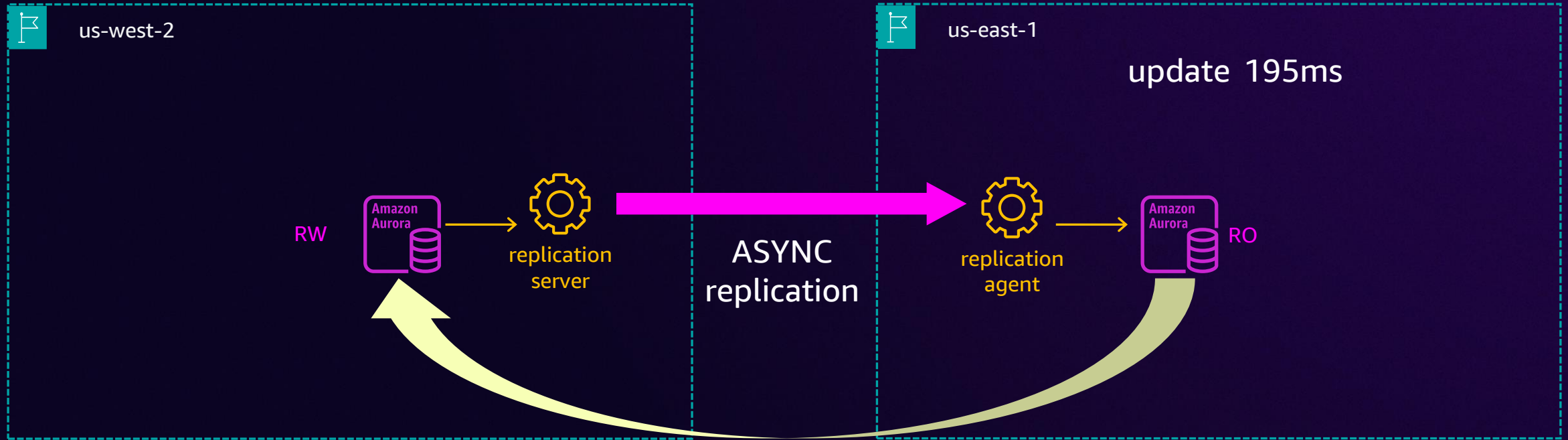
`apg_write_forward.consistency_mode=global`

Aurora global database – Global read visibility



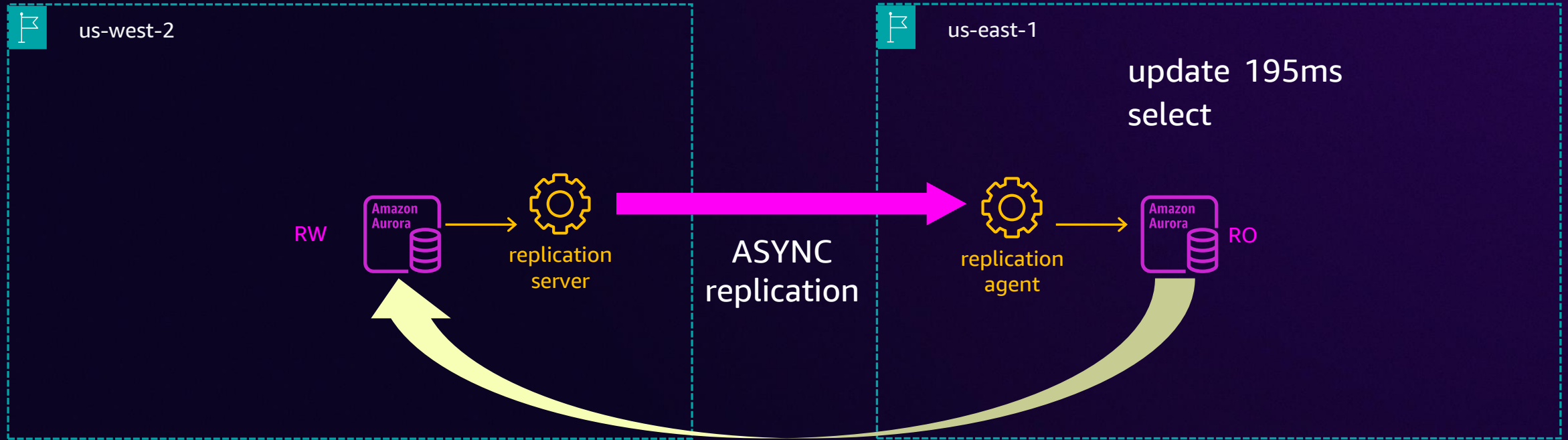
`apg_write_forward.consistency_mode=global`

Aurora global database – Global read visibility



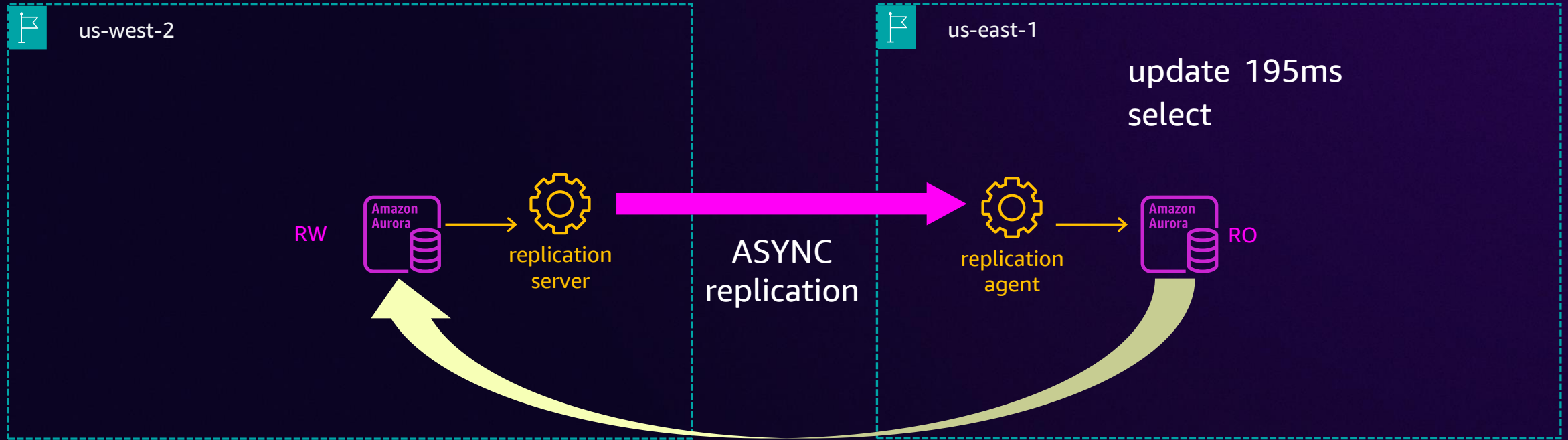
`apg_write_forward.consistency_mode=global`

Aurora global database – Global read visibility



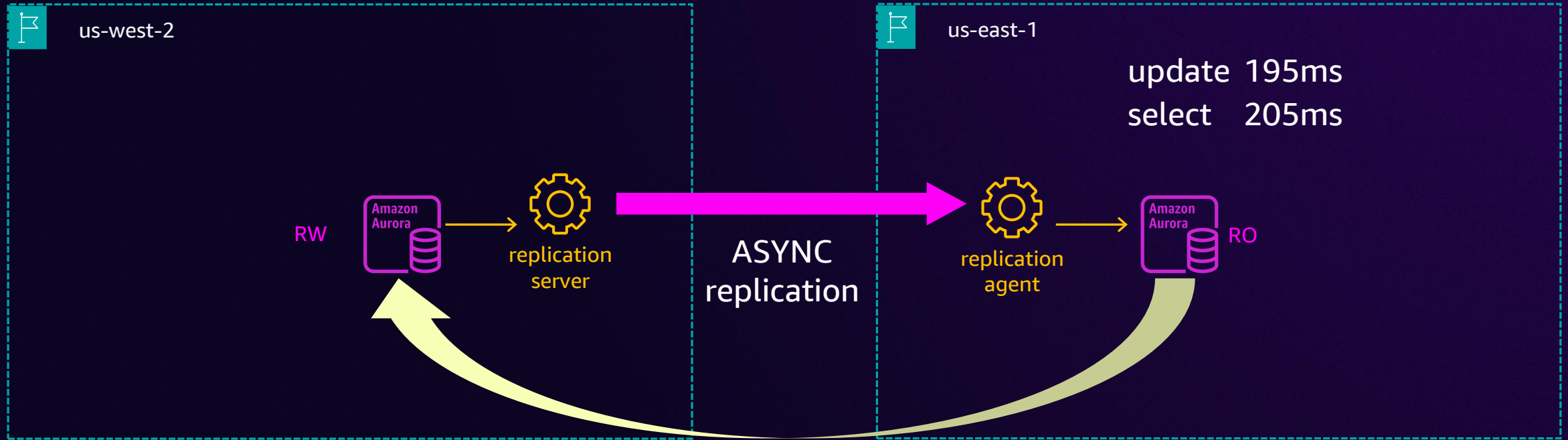
`apg_write_forward.consistency_mode=global`

Aurora global database – Global read visibility



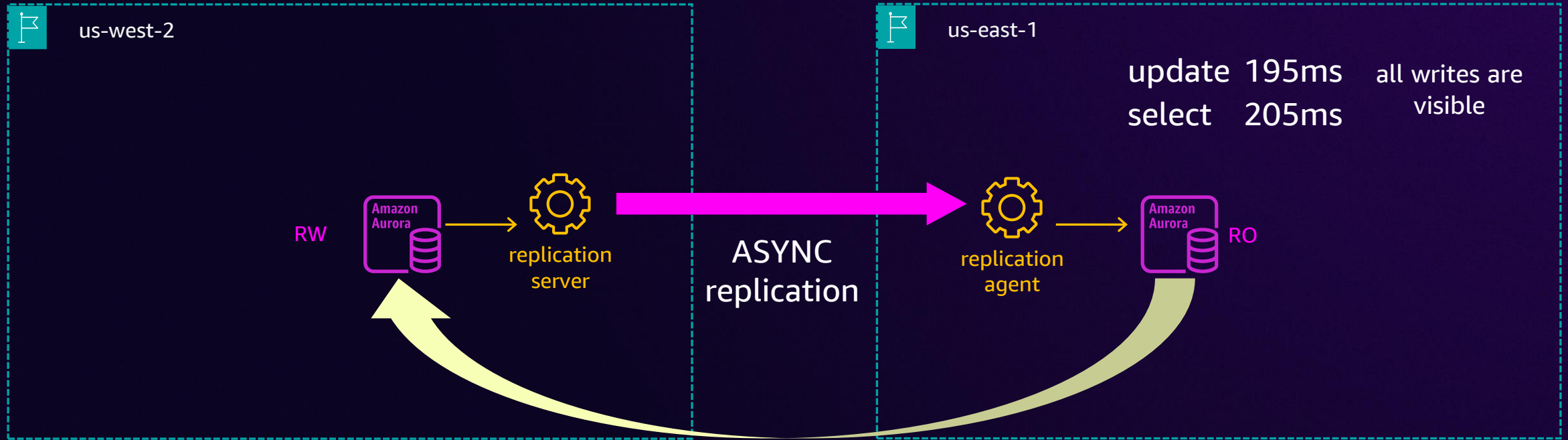
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Aurora global database – Global read visibility



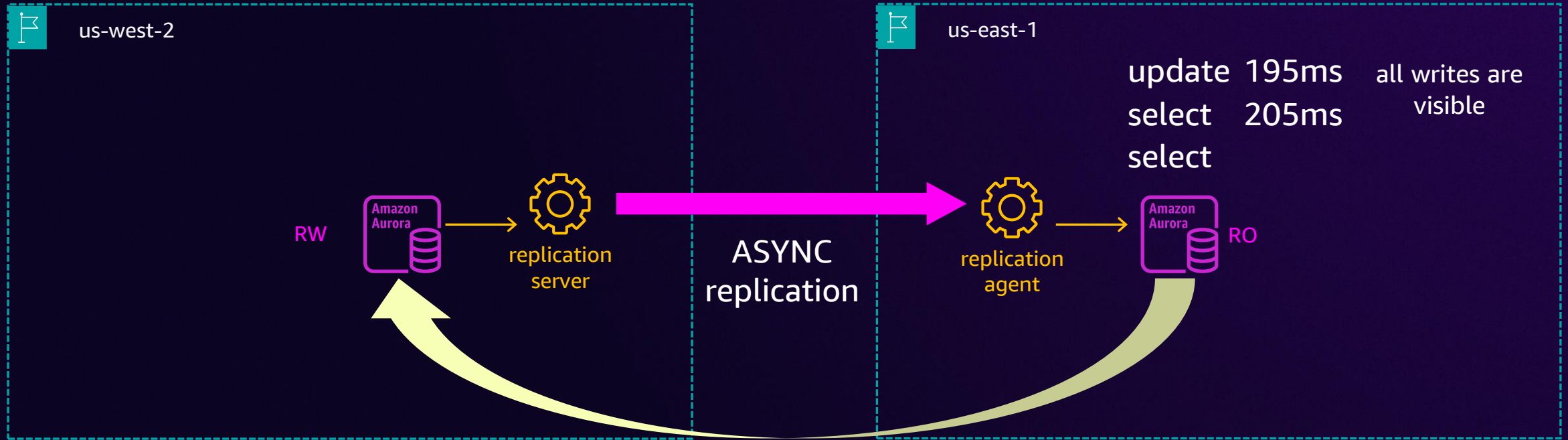
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Aurora global database – Global read visibility



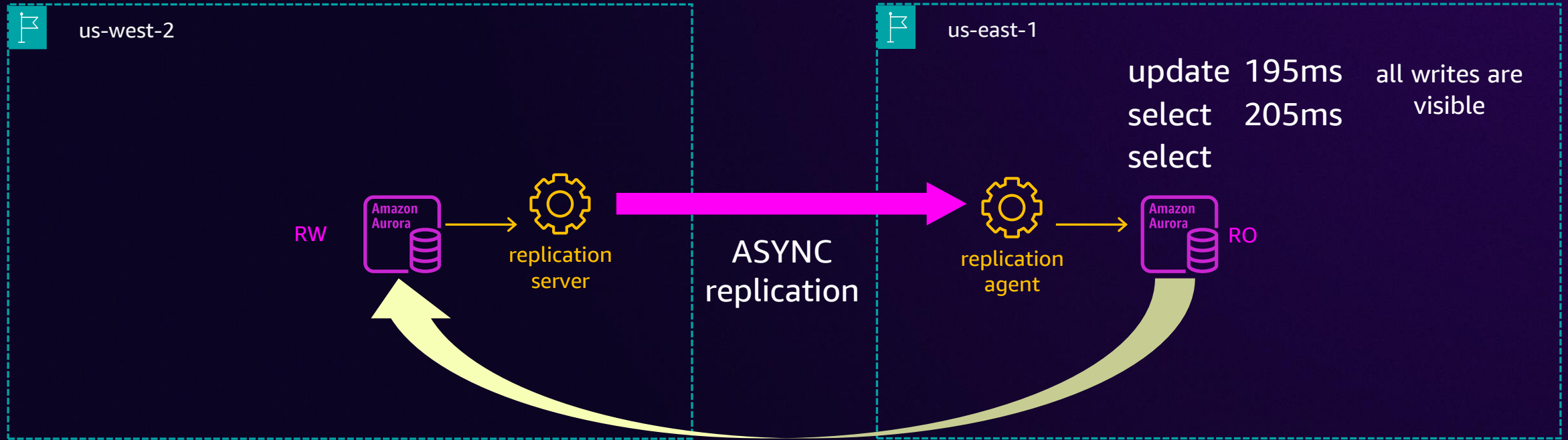
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Aurora global database – Global read visibility



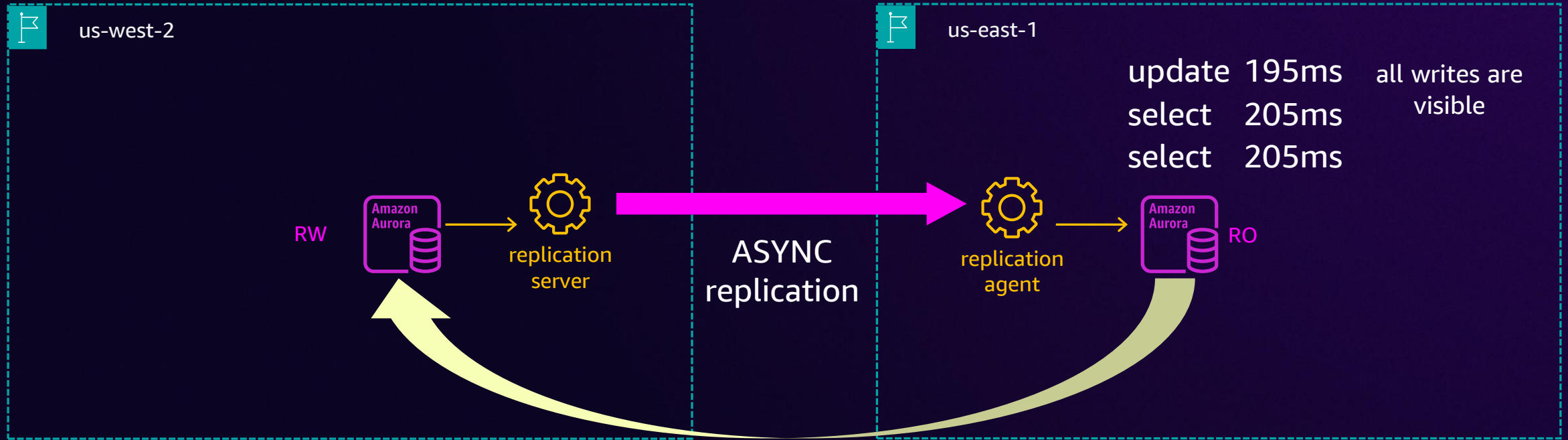
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Aurora global database – Global read visibility



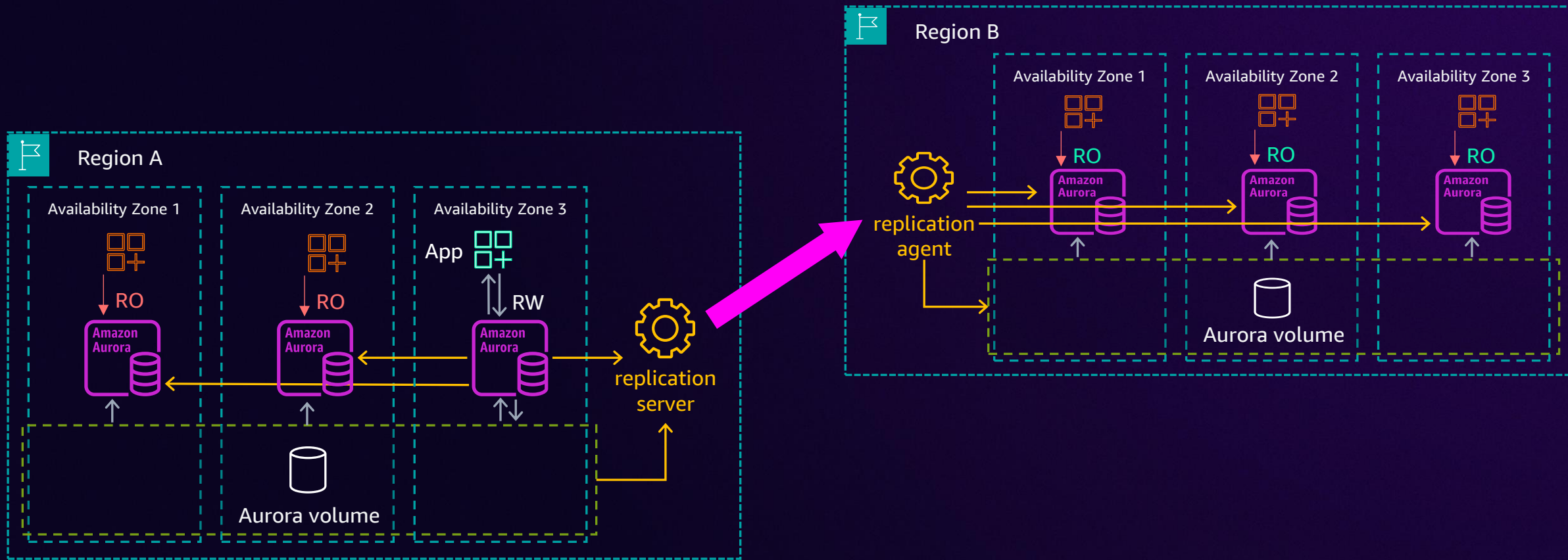
`apg_write_forward.consistency_mode=global`

Aurora global database – Global read visibility

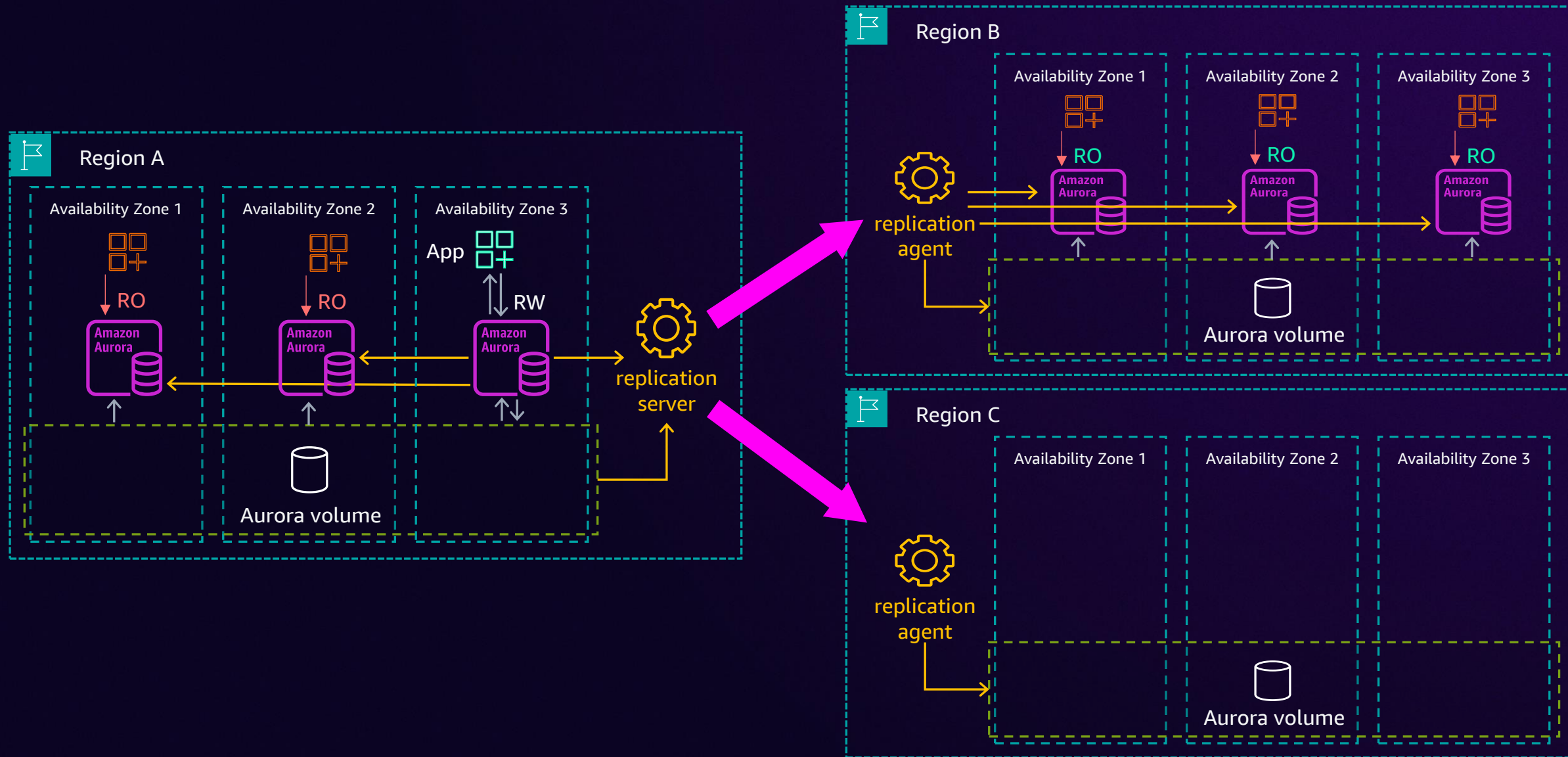


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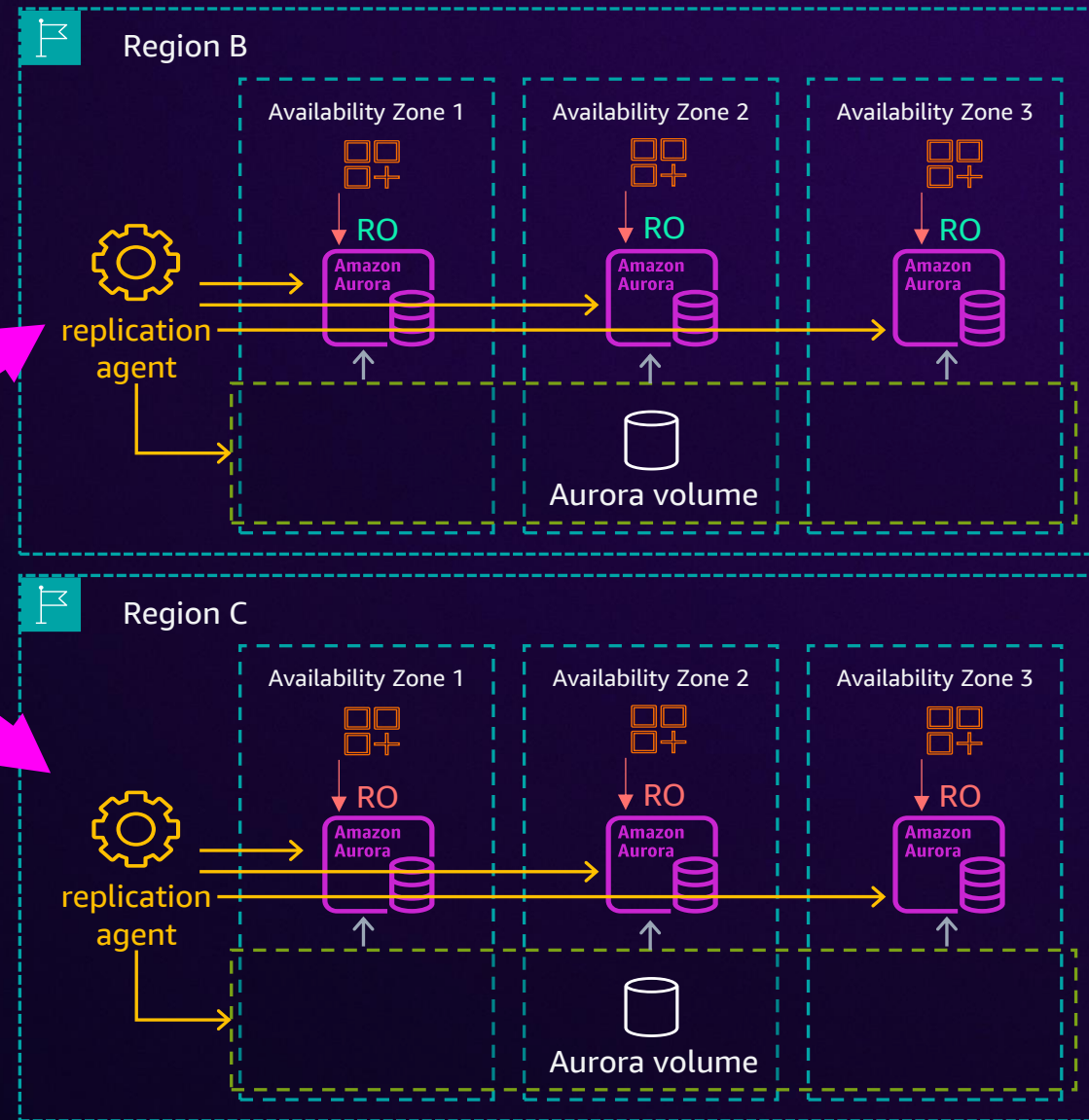
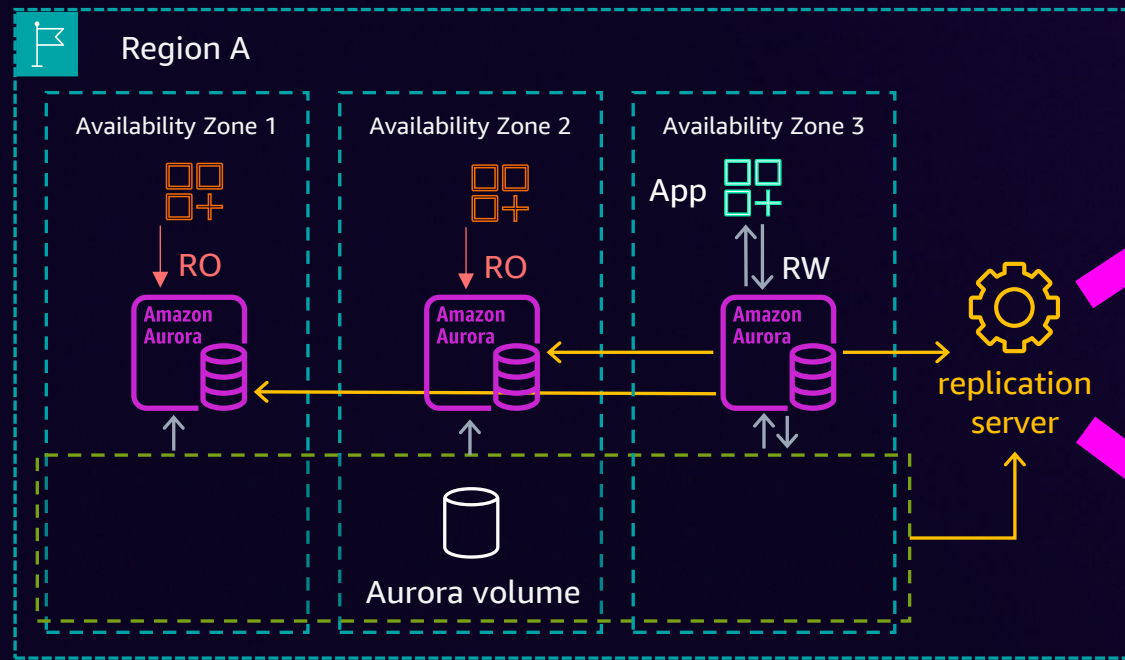
Aurora global database – Multi-Region



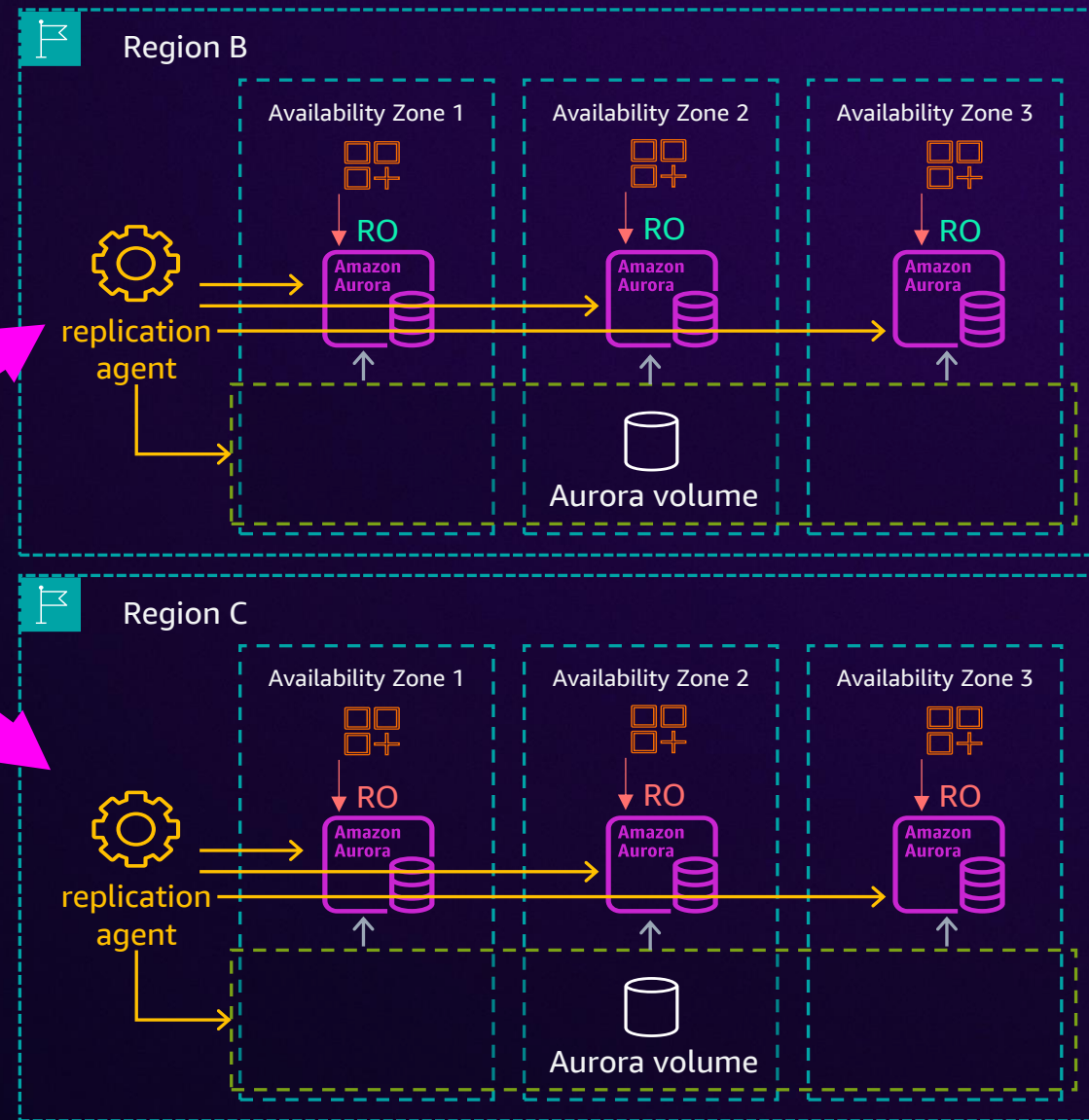
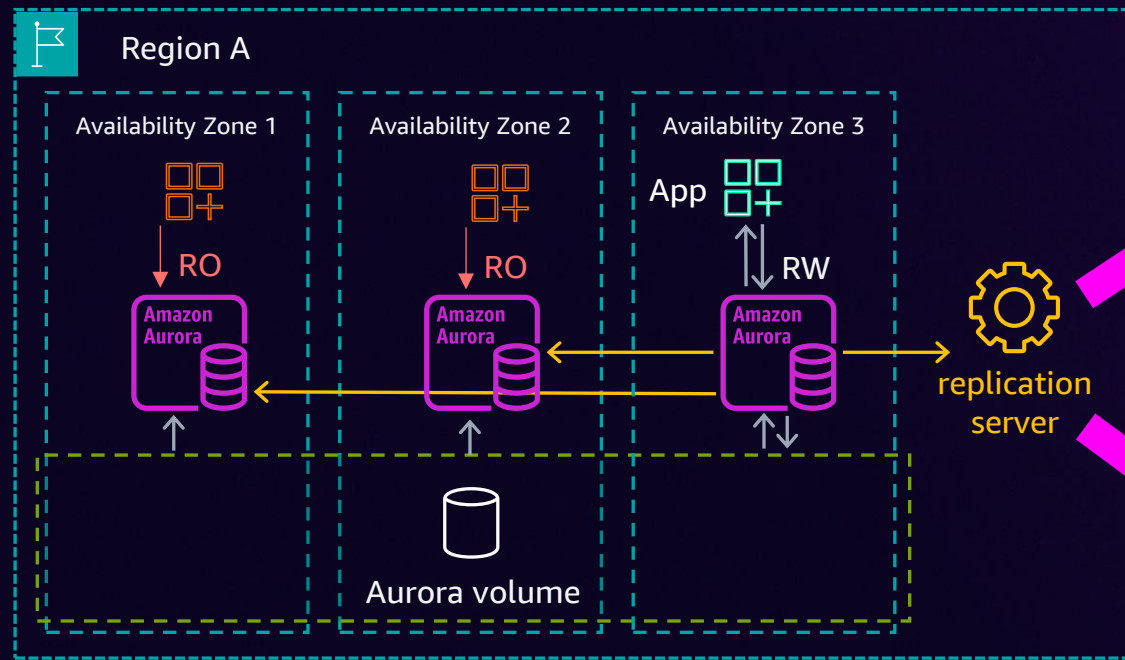
Aurora global database – Multi-Region



Aurora global database – Multi-Region

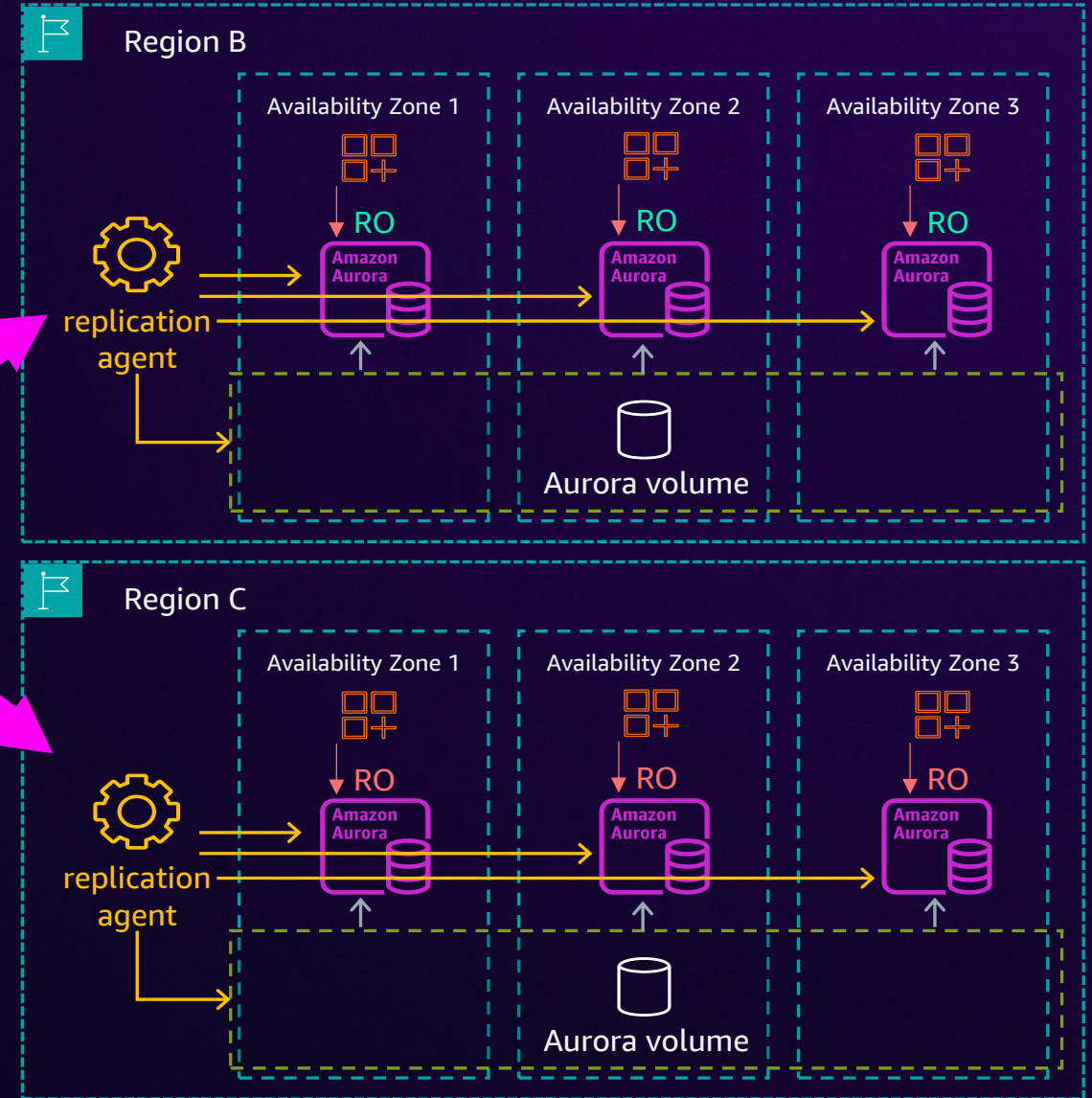
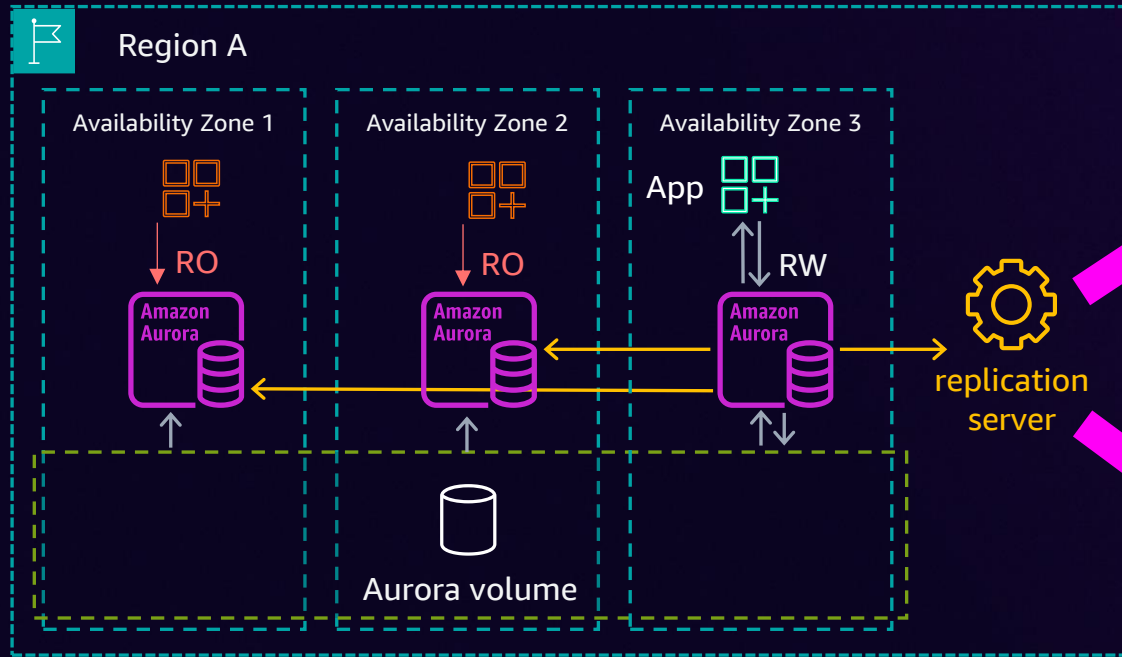


Aurora global database – Managed RPO



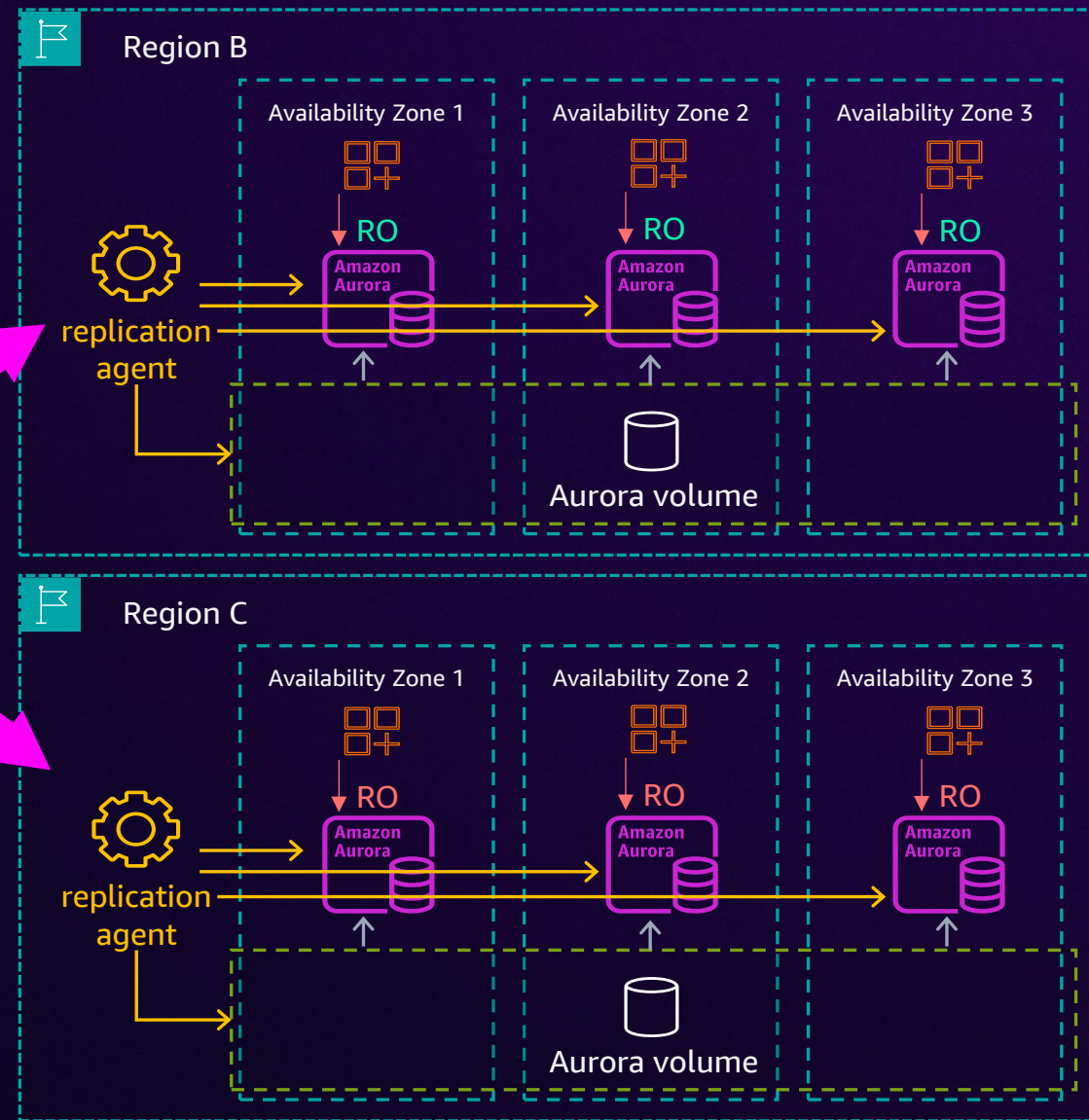
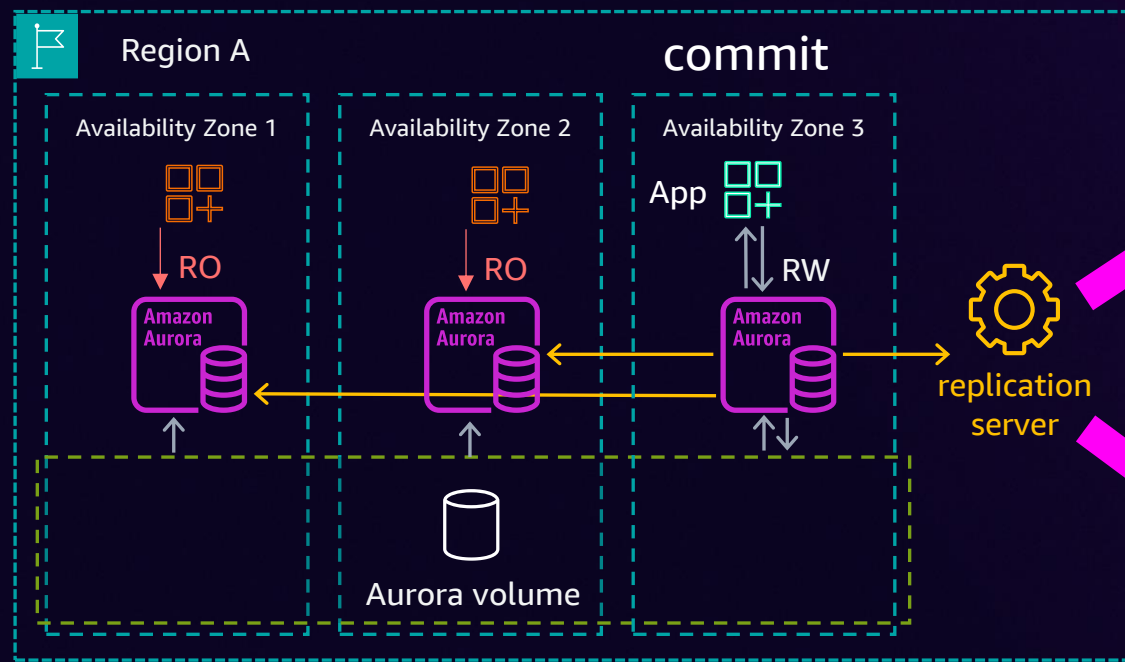
RTO \approx 2+ minutes
RPO \approx sub 1 second or `global_db_rpo`

Aurora global database – Managed RPO



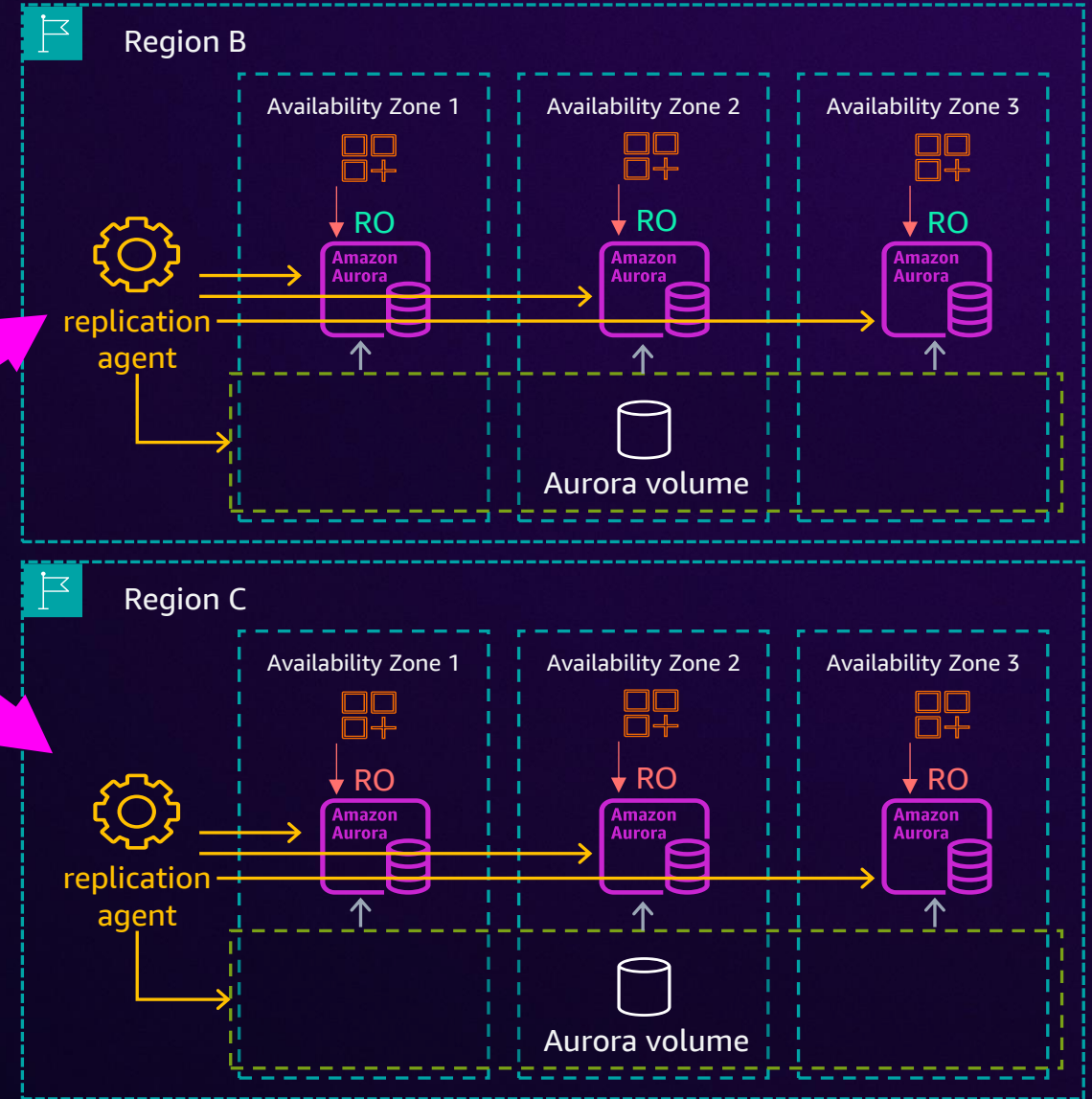
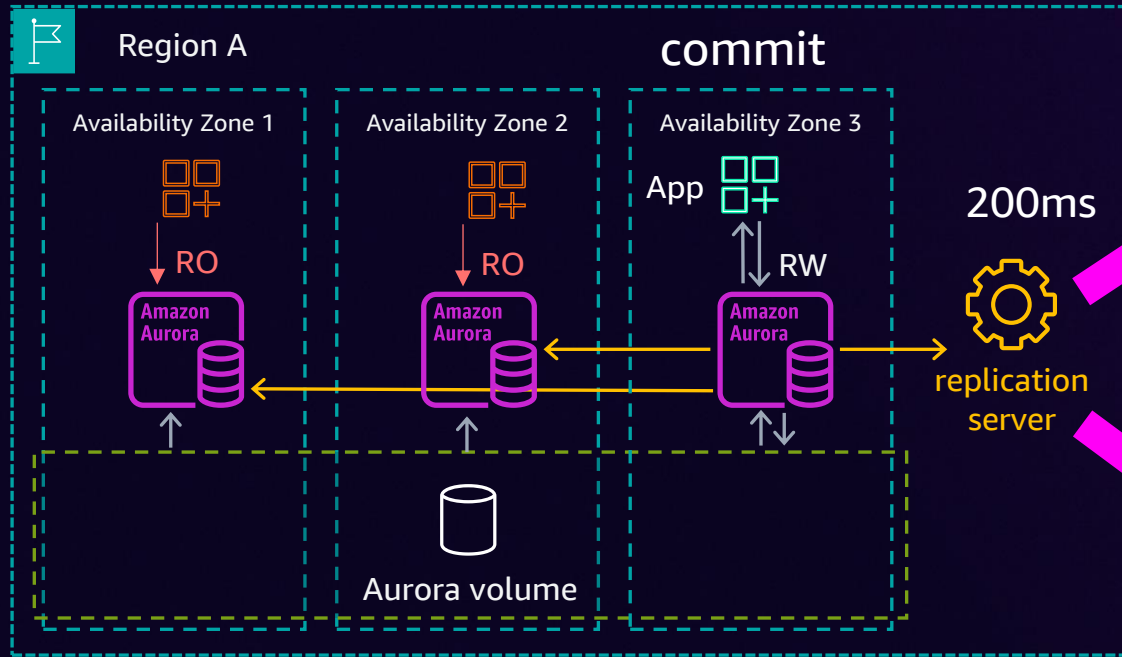
RTO \approx 2+ minutes
RPO \approx sub 1 second or `global_db_rpo` 20 seconds

Aurora global database – Managed RPO



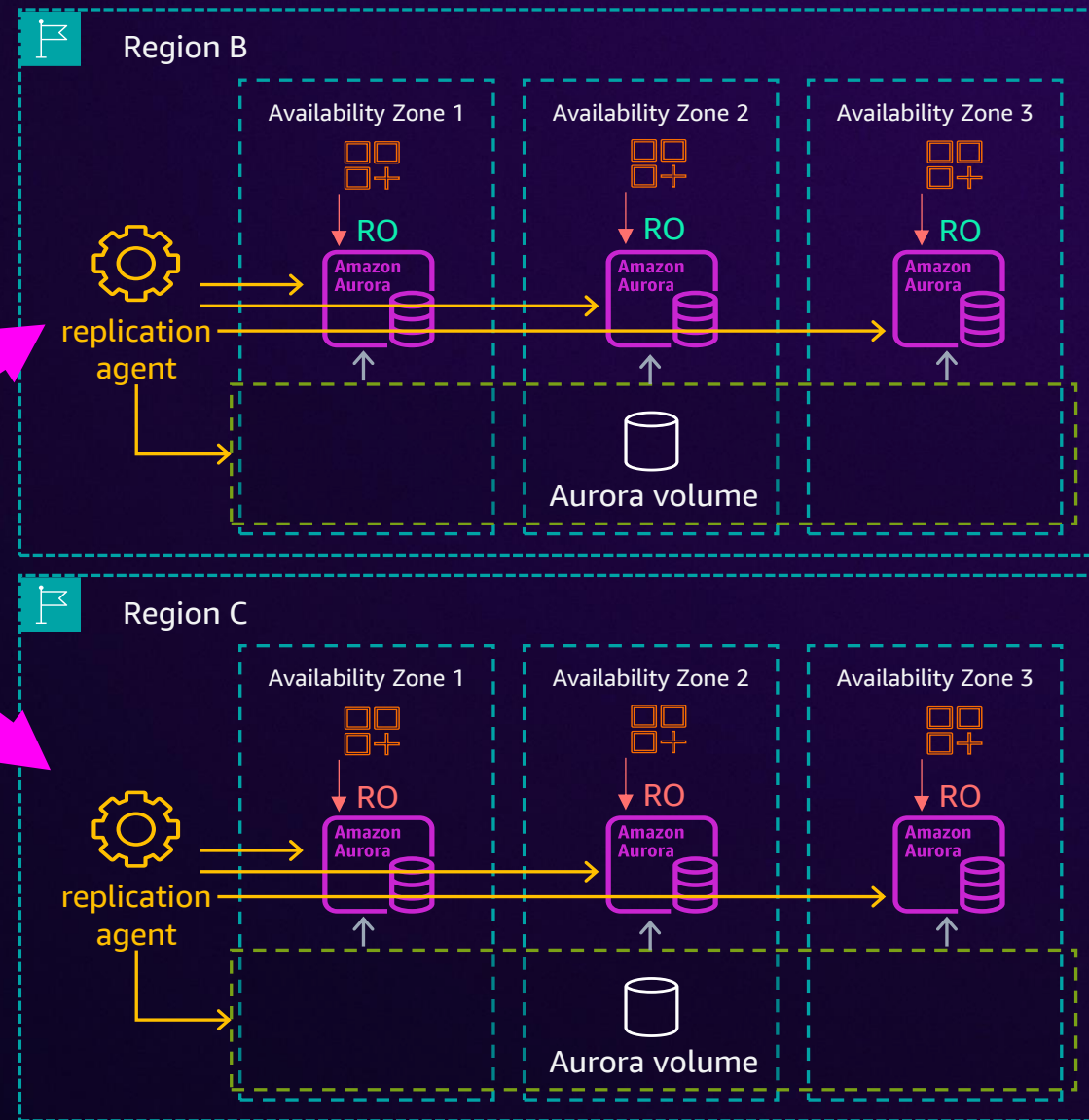
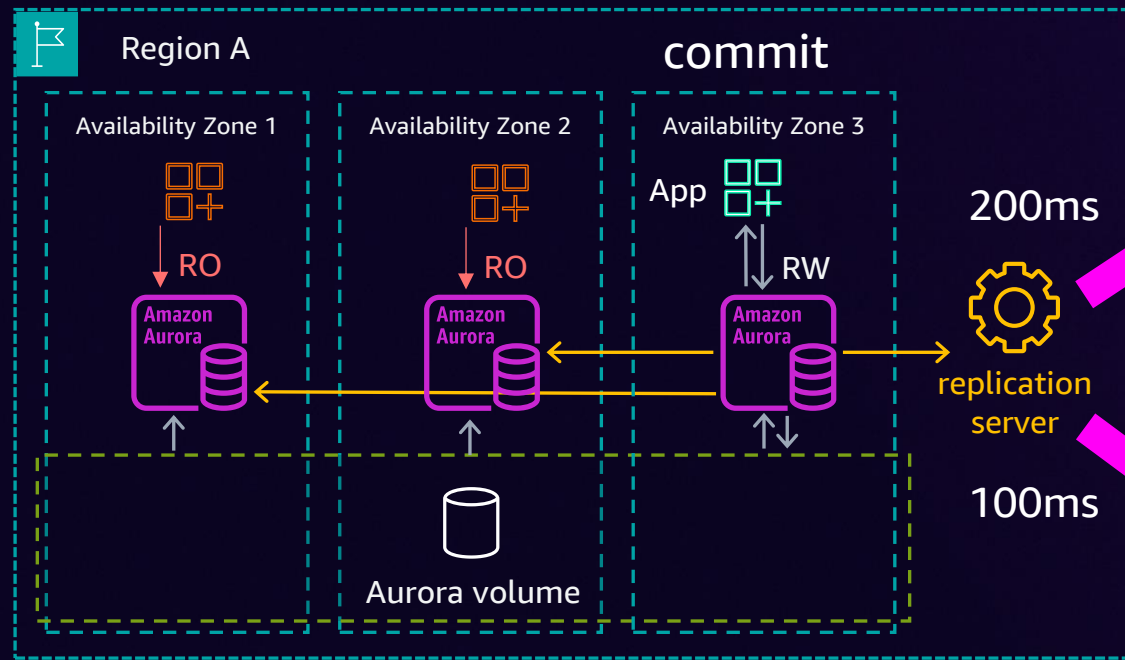
RTO \approx 2+ minutes
RPO \approx sub 1 second or `global_db_rpo` 20 seconds

Aurora global database – Managed RPO



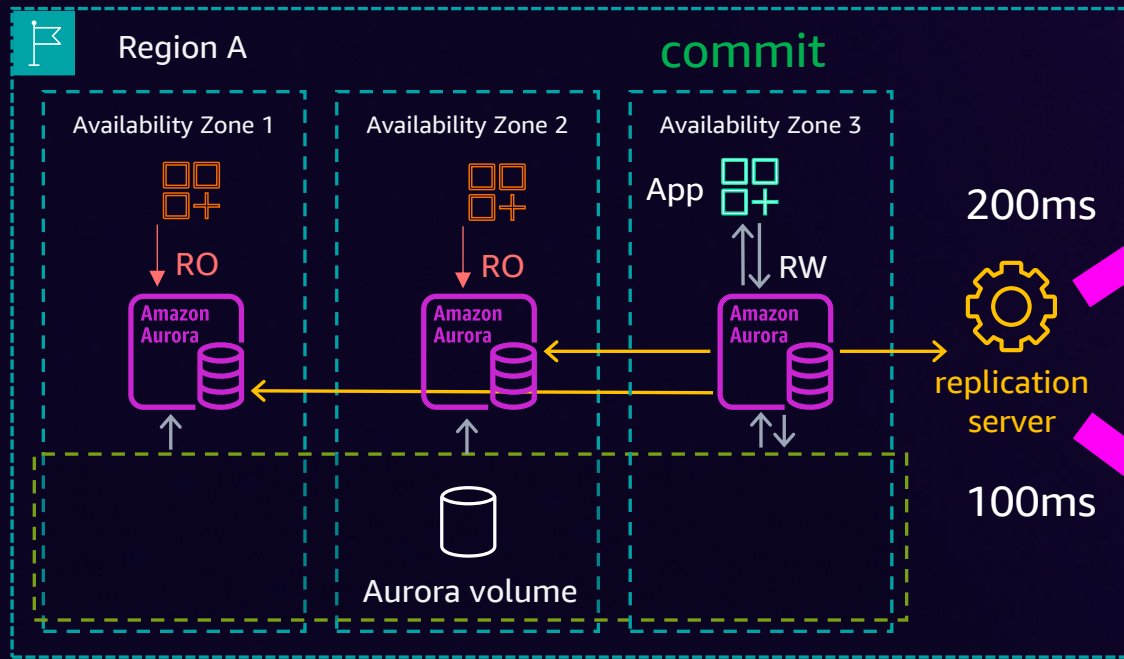
RTO \approx 2+ minutes
RPO \approx sub 1 second or `global_db_rpo` 20 seconds

Aurora global database – Managed RPO

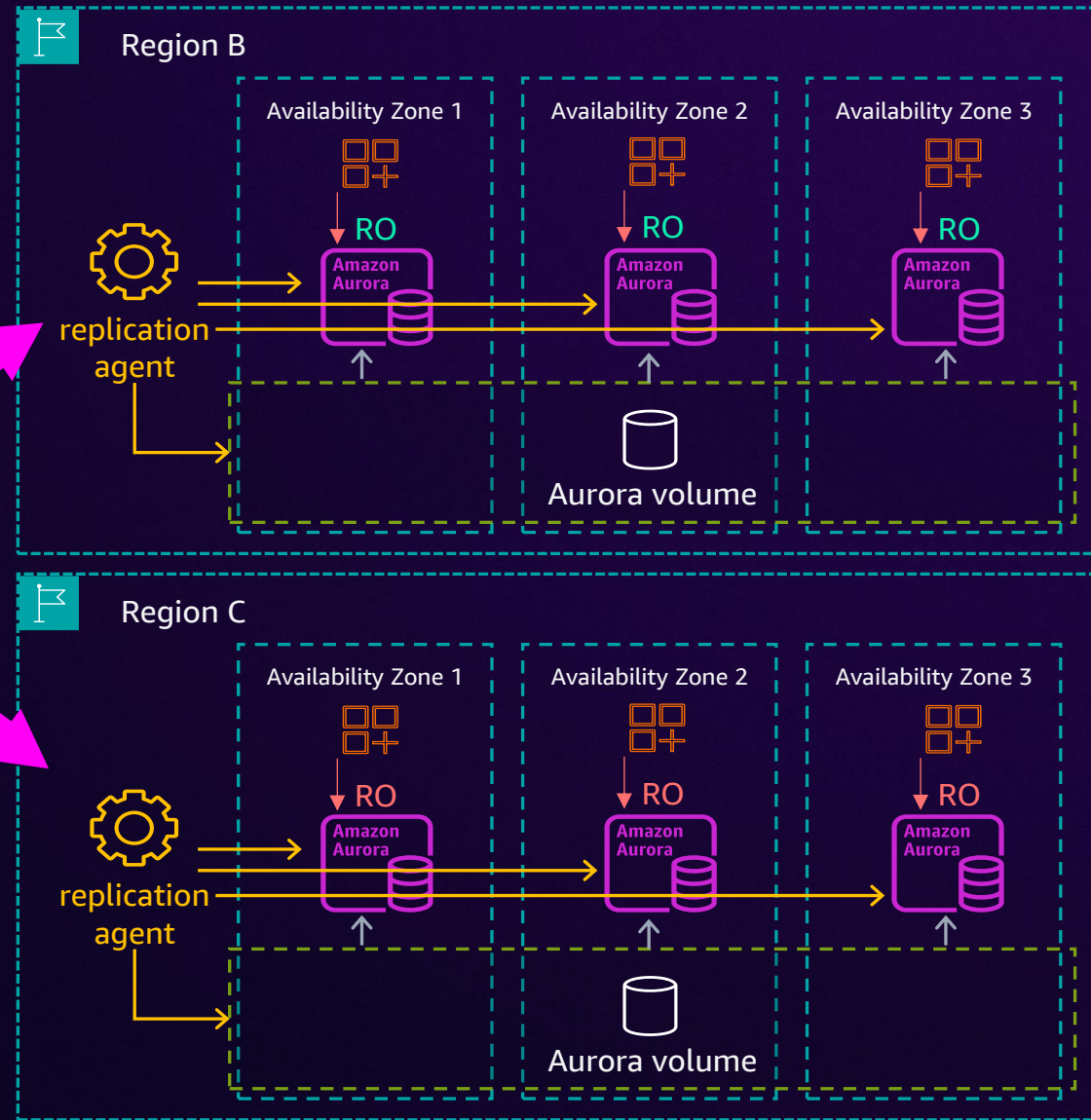


RTO \approx 2+ minutes
RPO \approx sub 1 second or `global_db_rpo` 20 seconds

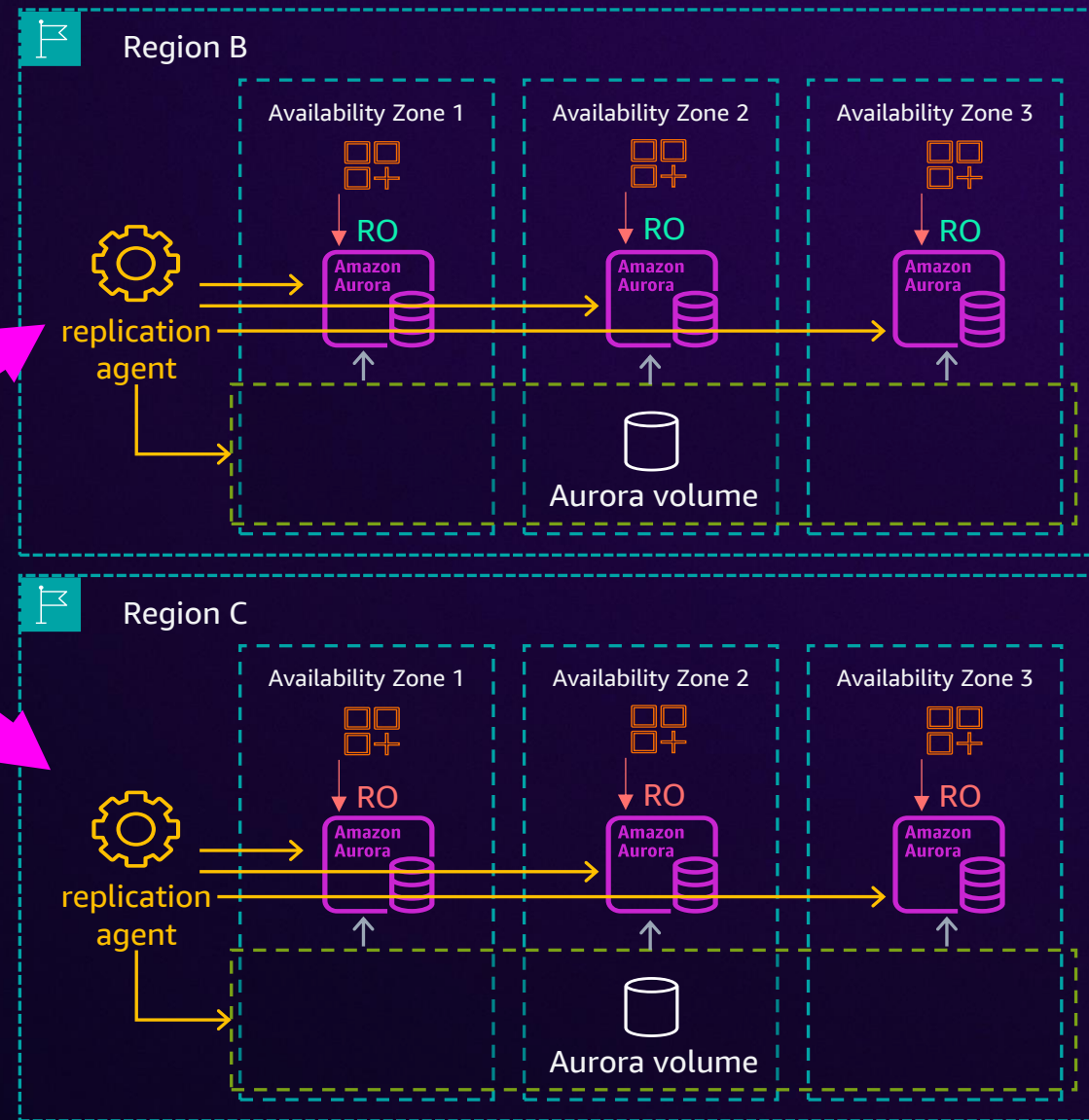
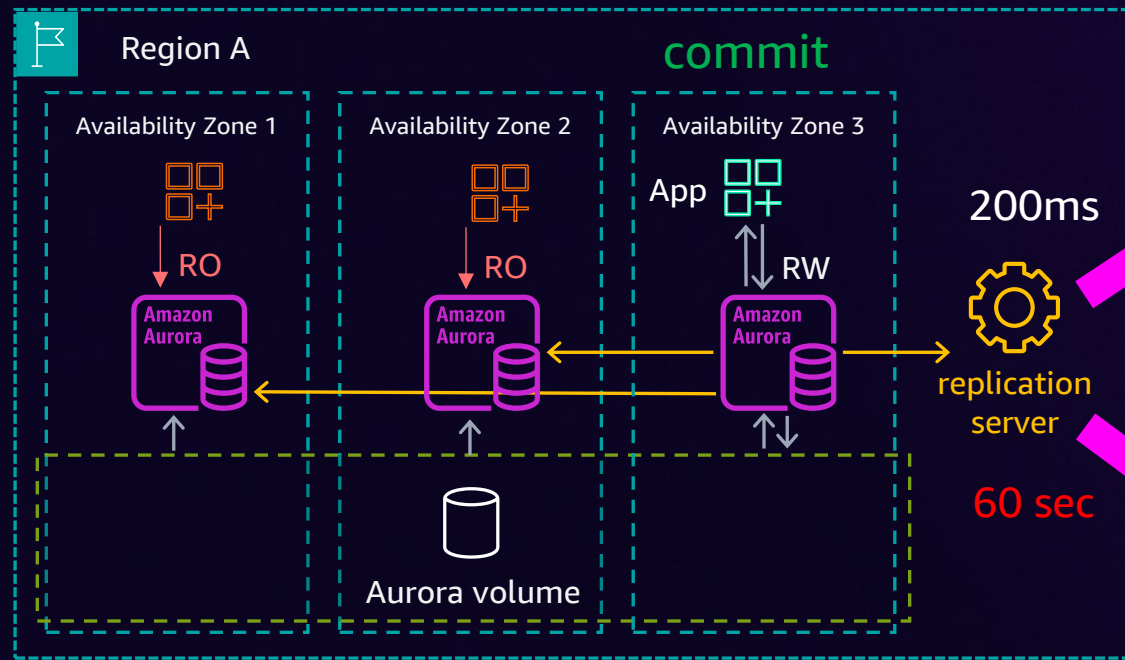
Aurora global database – Managed RPO



RTO \approx 2+ minutes 20 seconds
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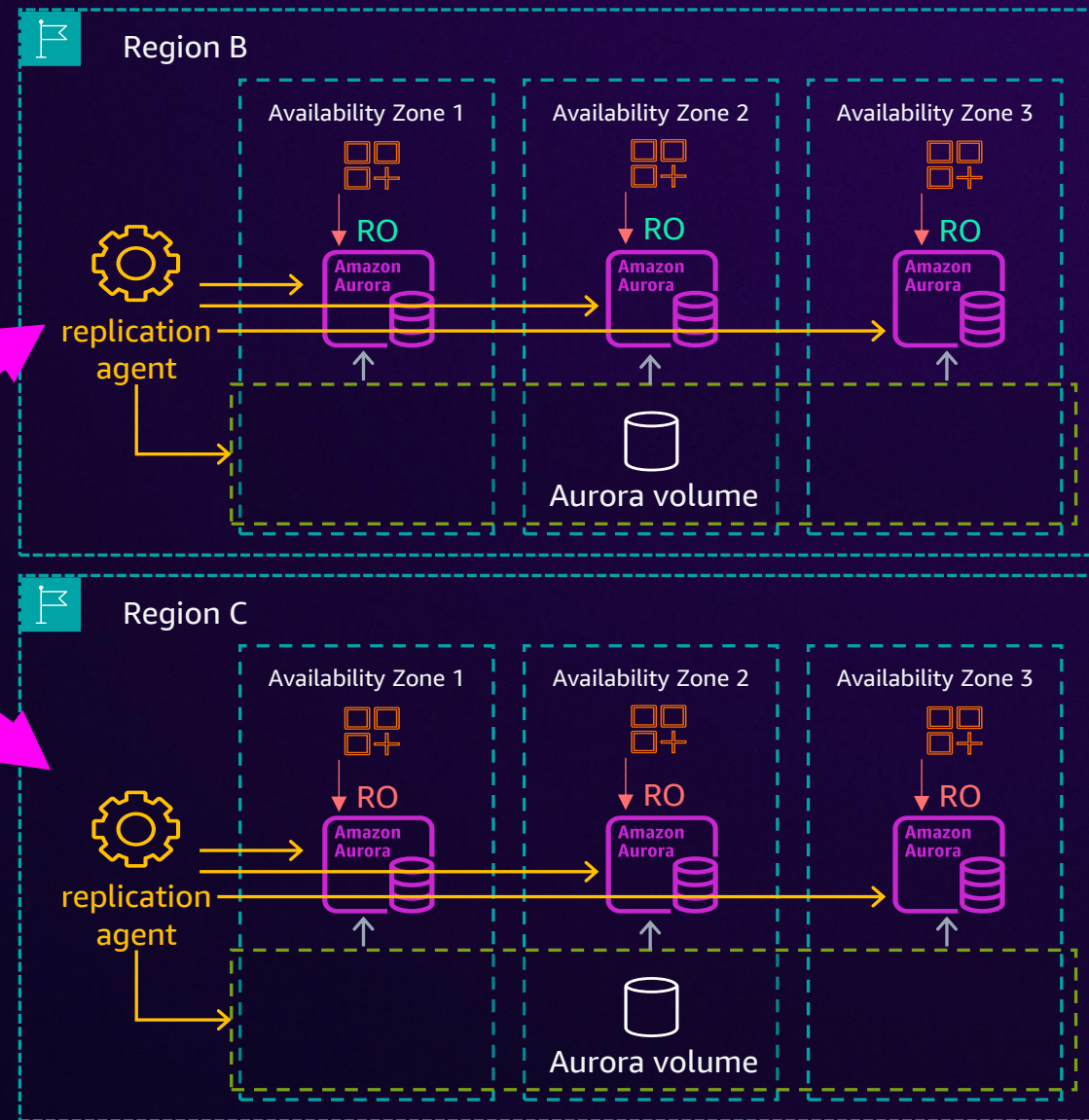
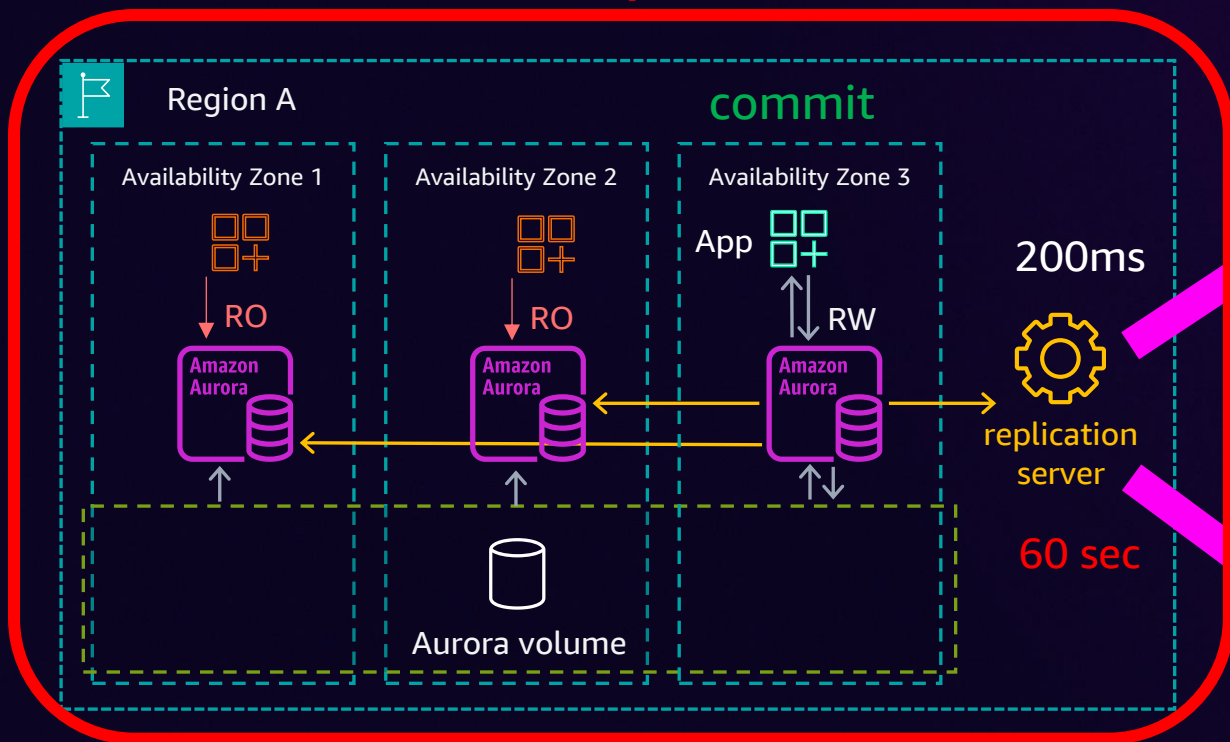
Aurora global database – Managed RPO



RTO \approx 2+ minutes 20 seconds
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Aurora global database – Managed RPO

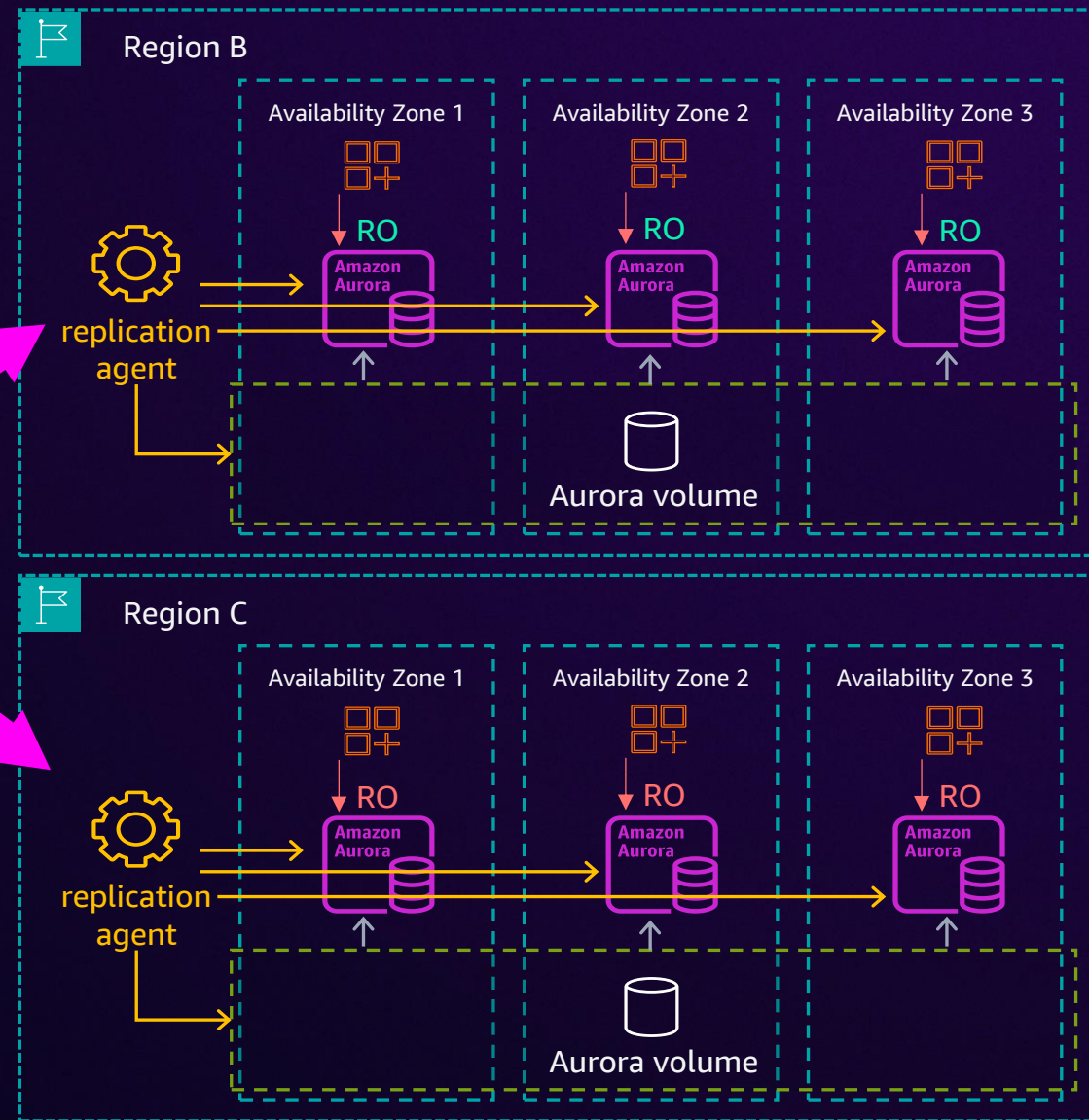
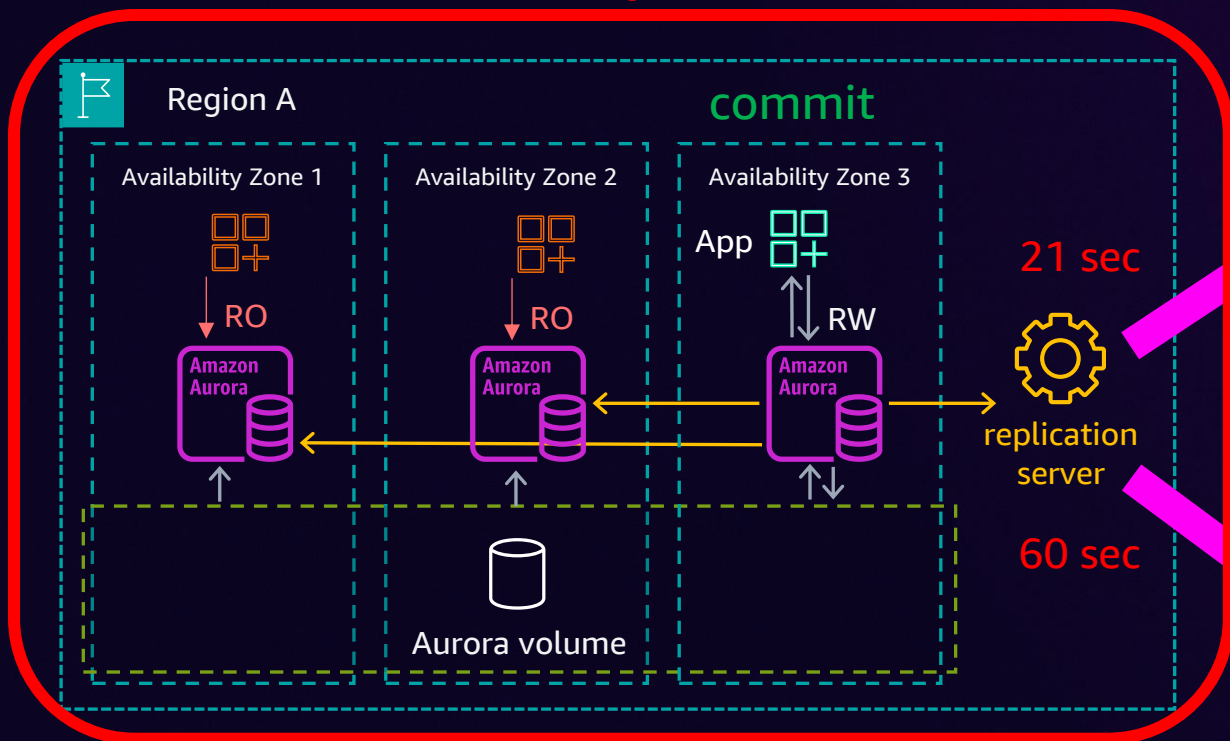
Network partition



RTO \approx 2+ minutes
RPO \approx sub 1 second or `global_db_rpo` 20 seconds

Aurora global database – Managed RPO

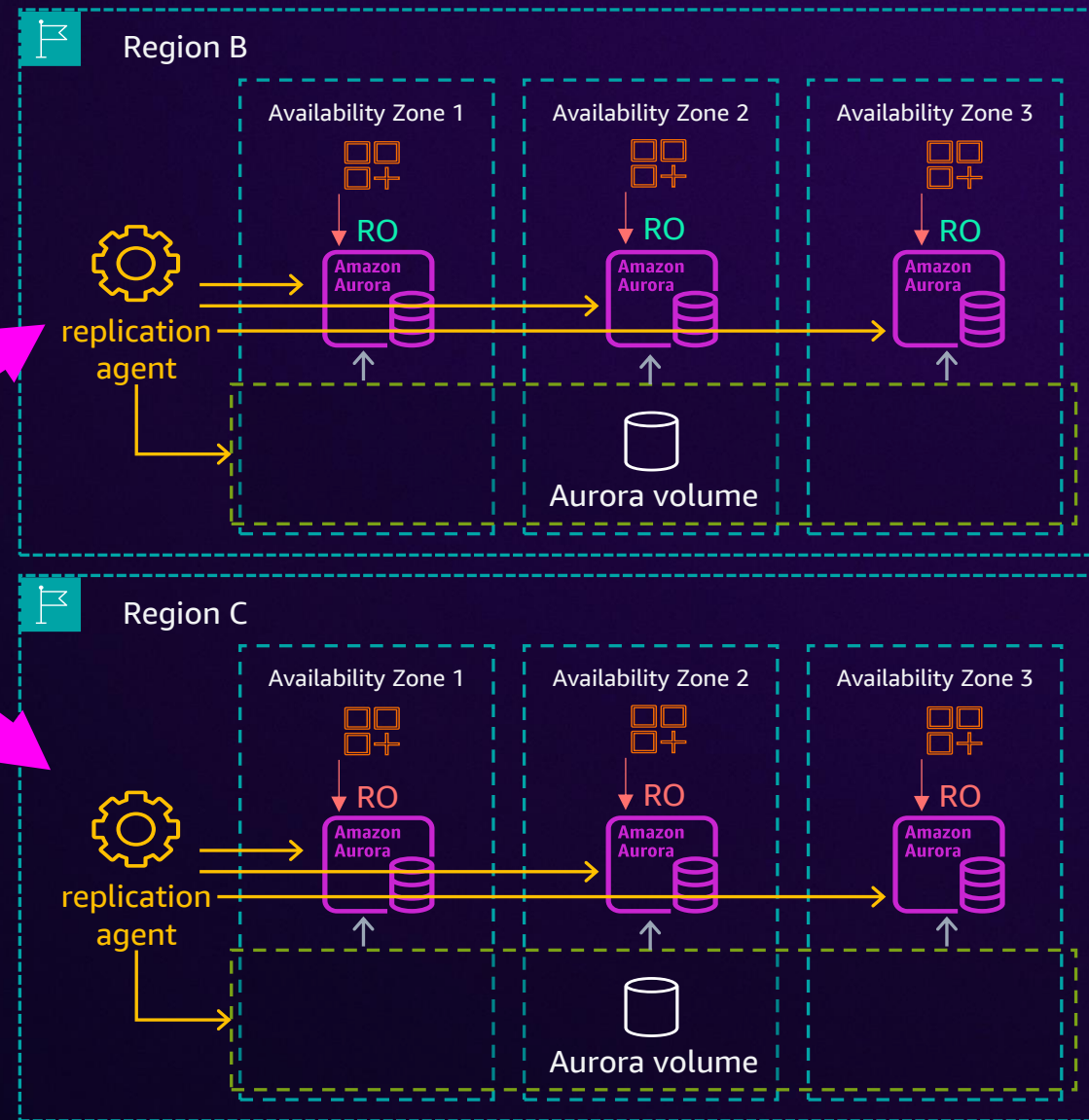
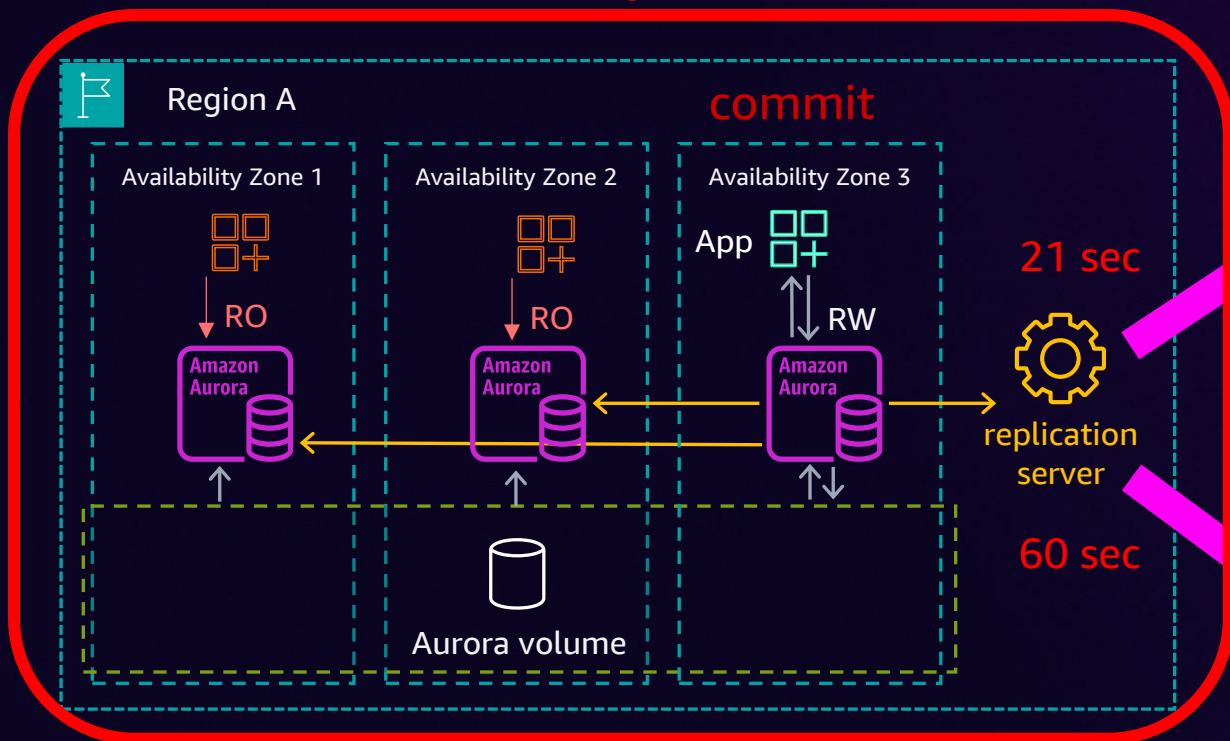
Network partition



RTO \approx 2+ minutes
RPO \approx sub 1 second or `global_db_rpo` 20 seconds

Aurora global database – Managed RPO

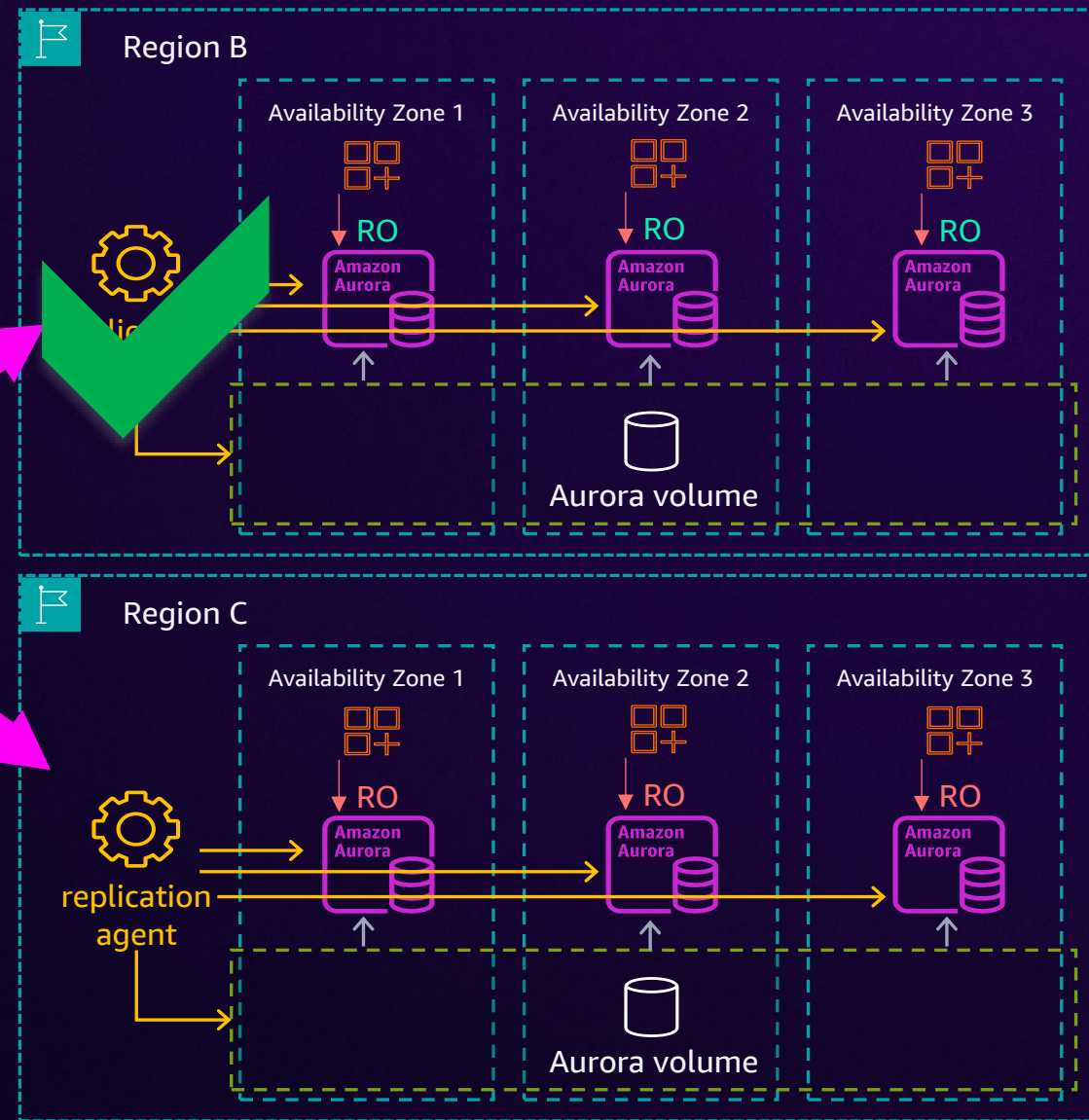
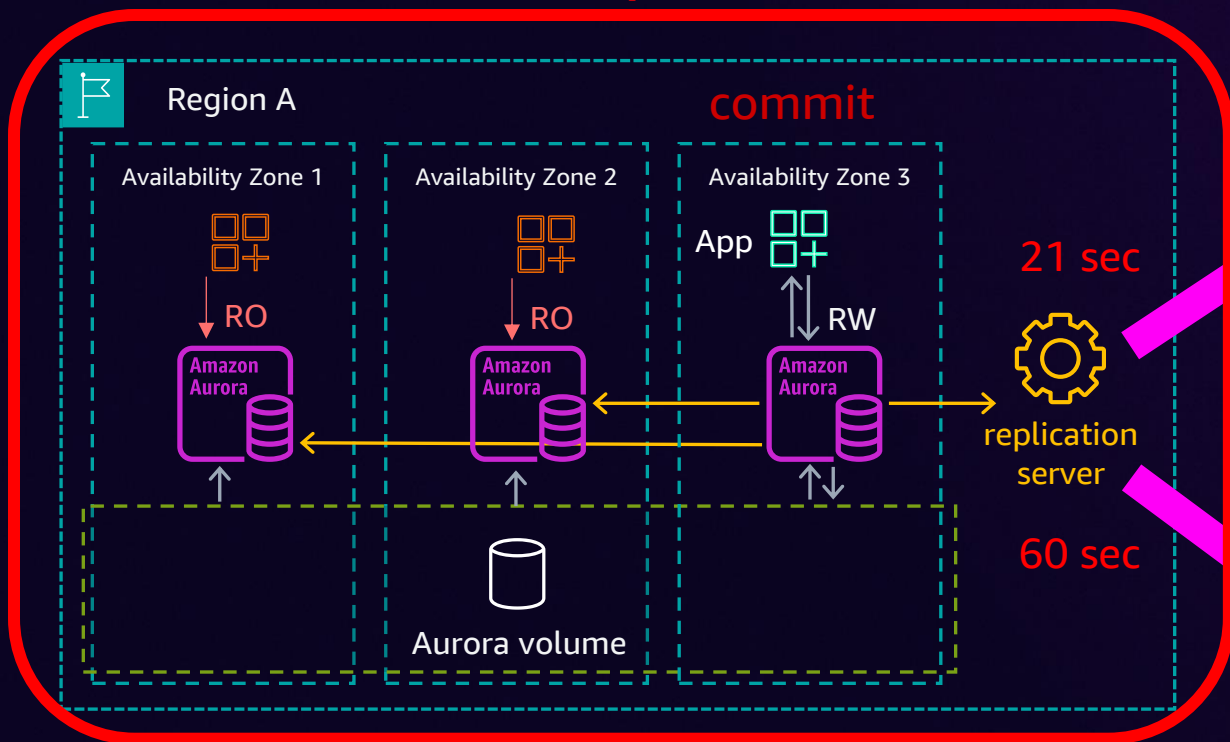
Network partition



RTO \approx 2+ minutes
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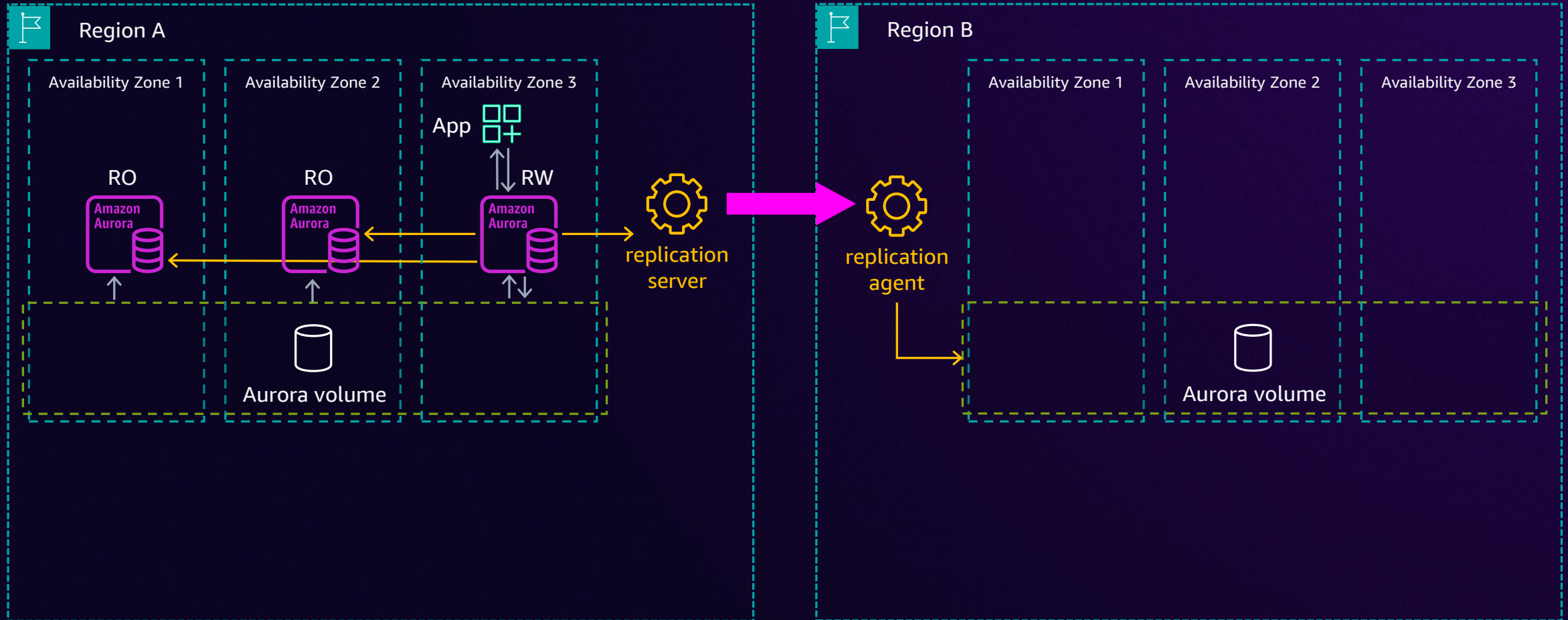
Aurora global database – Managed RPO

Network partition

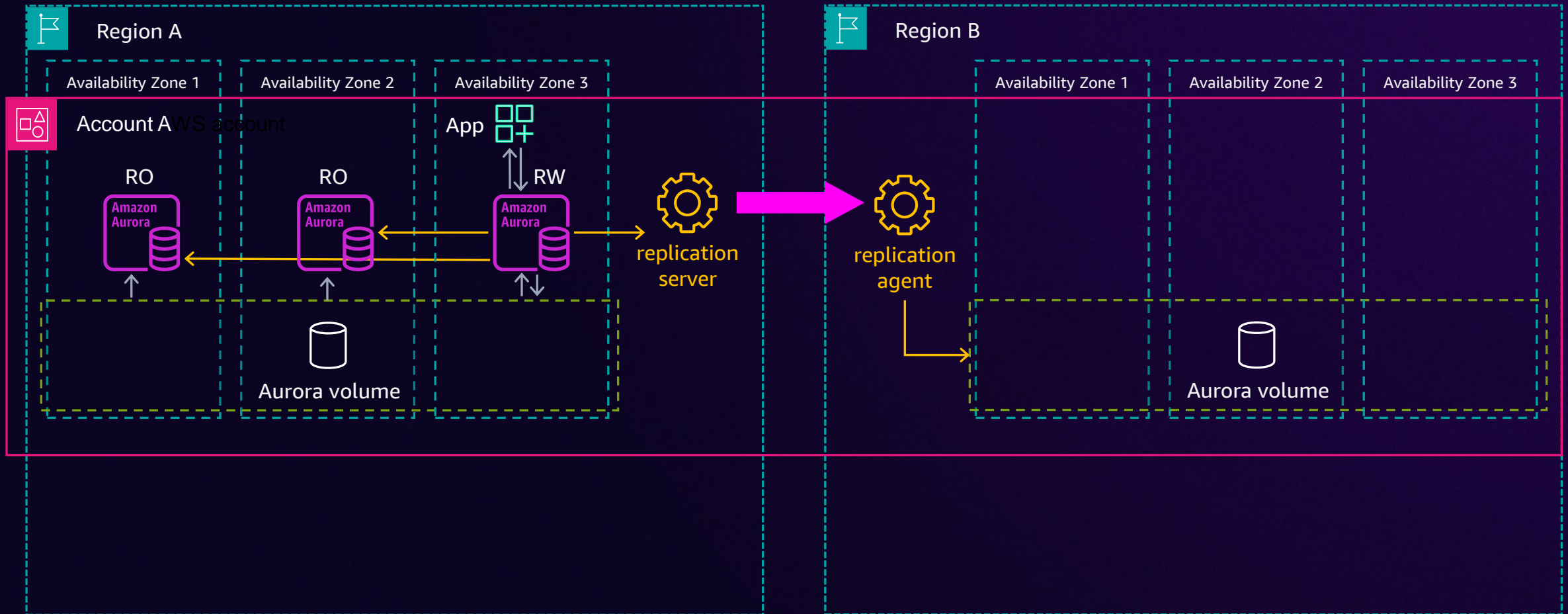


RTO \approx 2+ minutes
RPO \approx sub 1 second or `global_db_rpo` 20 seconds

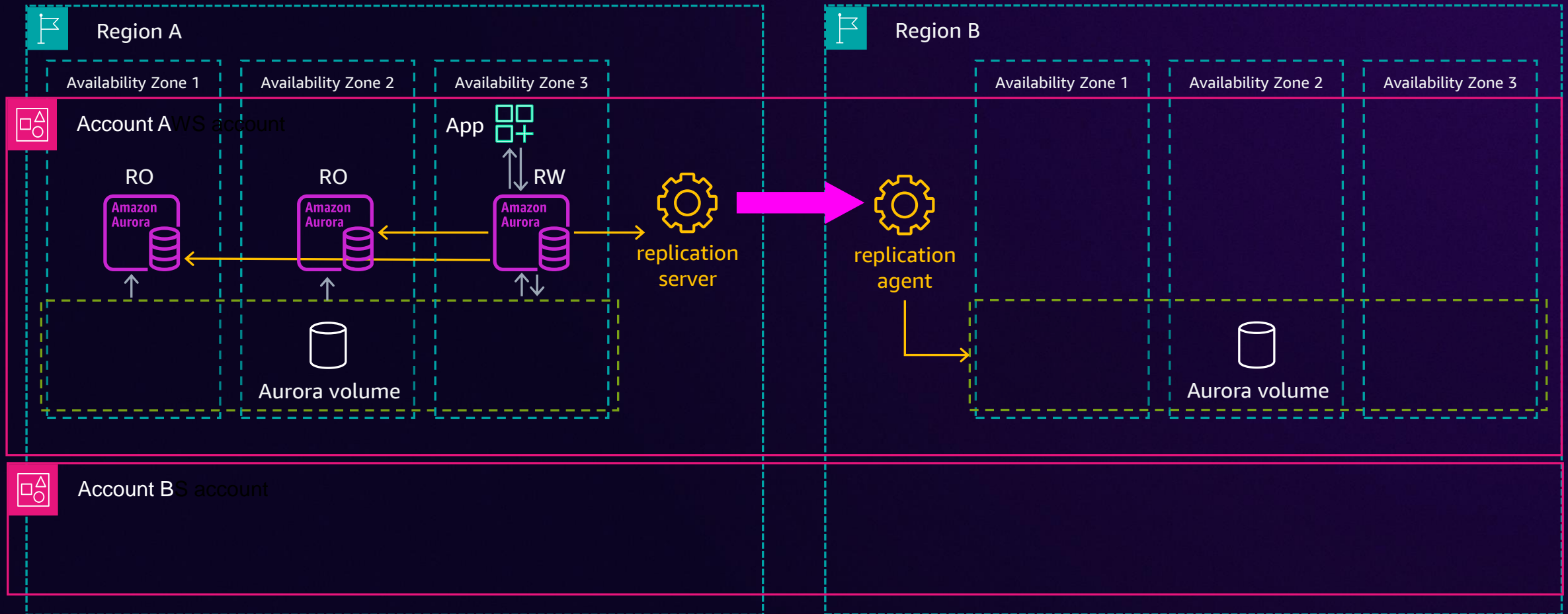
Aurora global database – Cross account



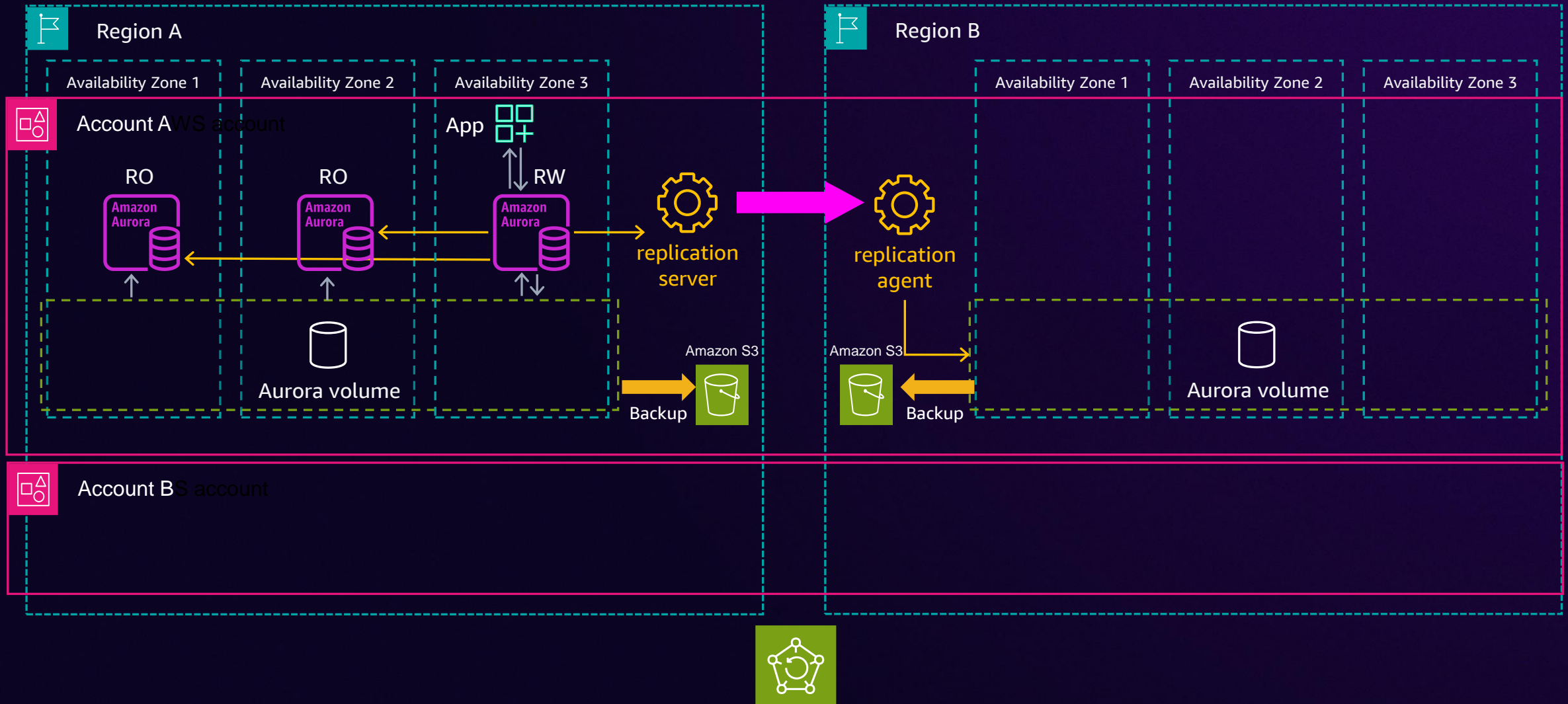
Aurora global database – Cross account



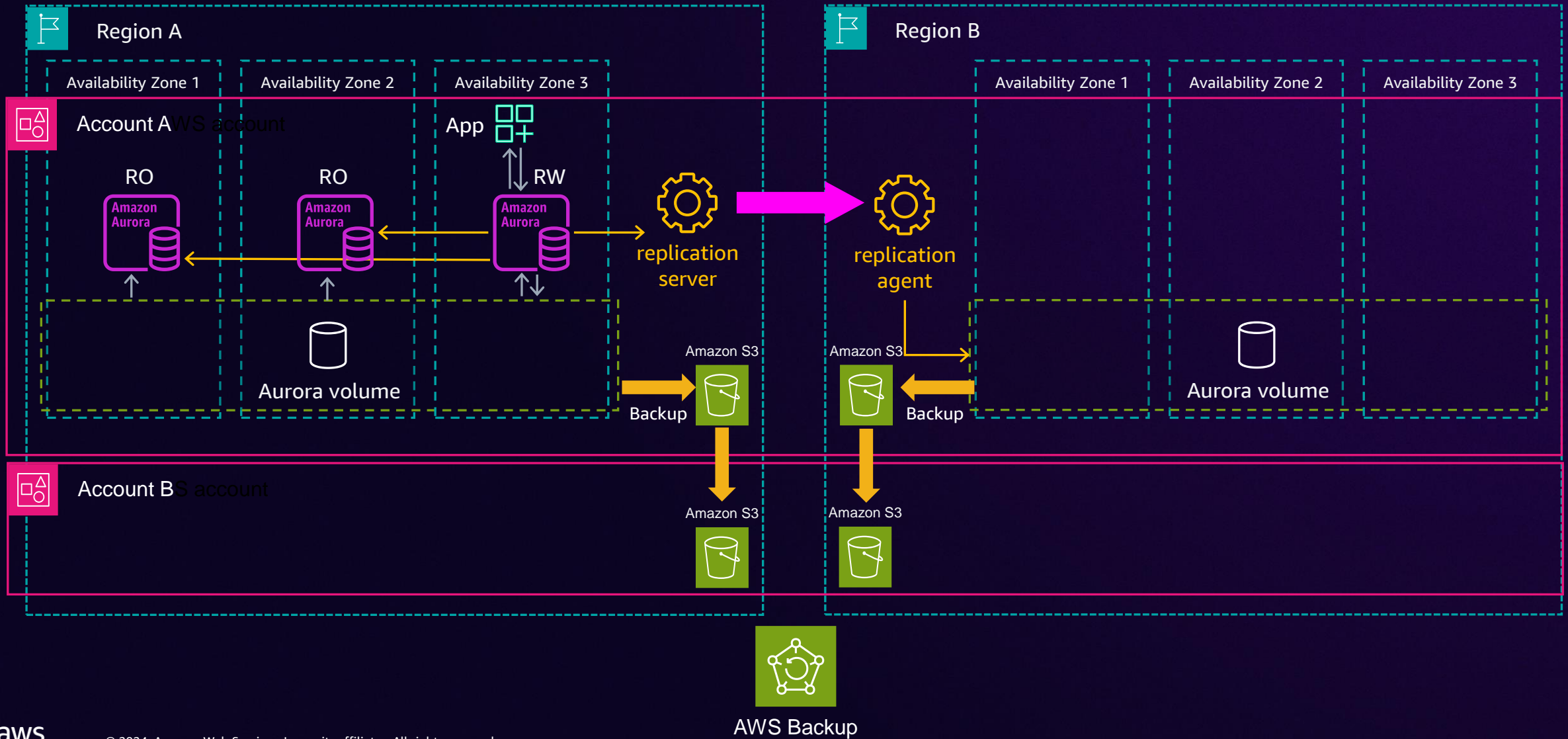
Aurora global database – Cross account



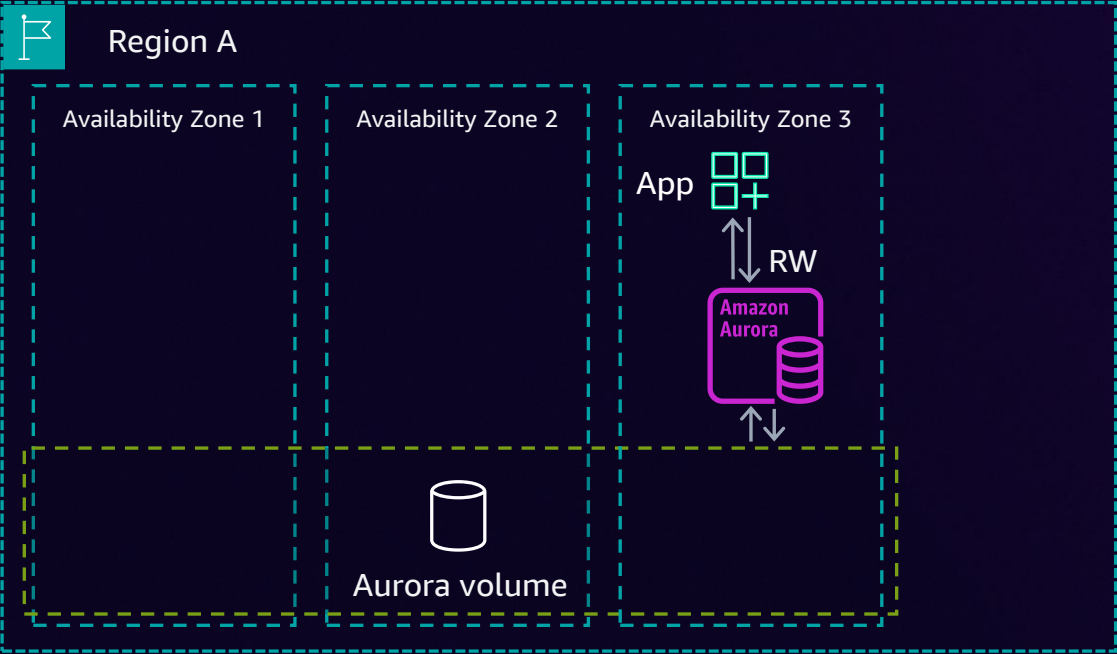
Aurora global database – Cross account



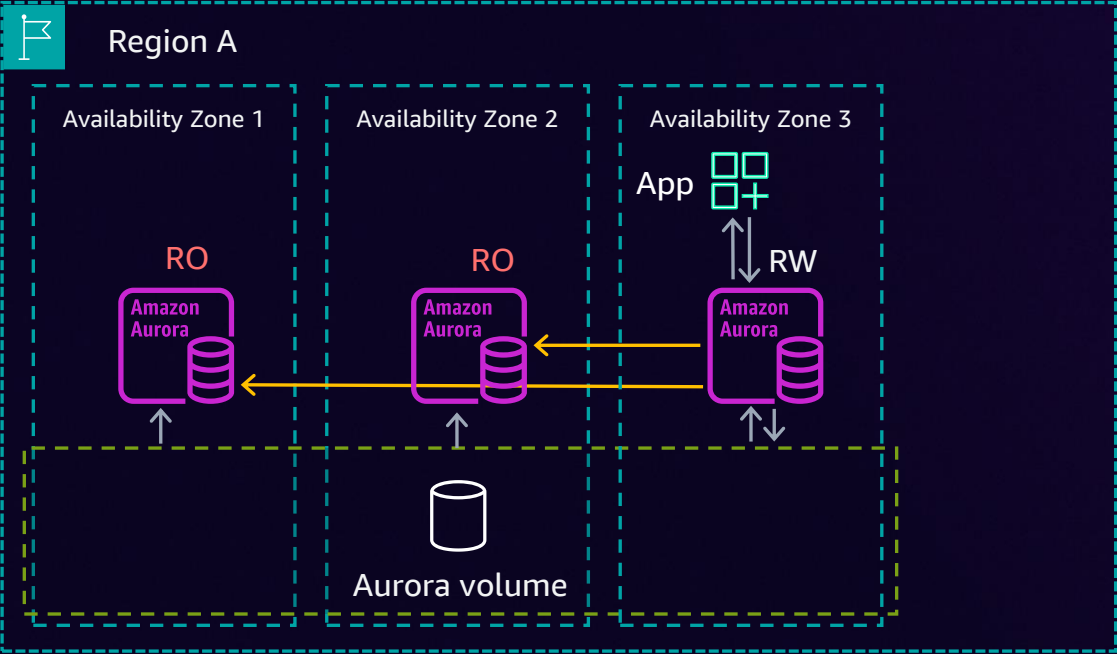
Aurora global database – Cross account



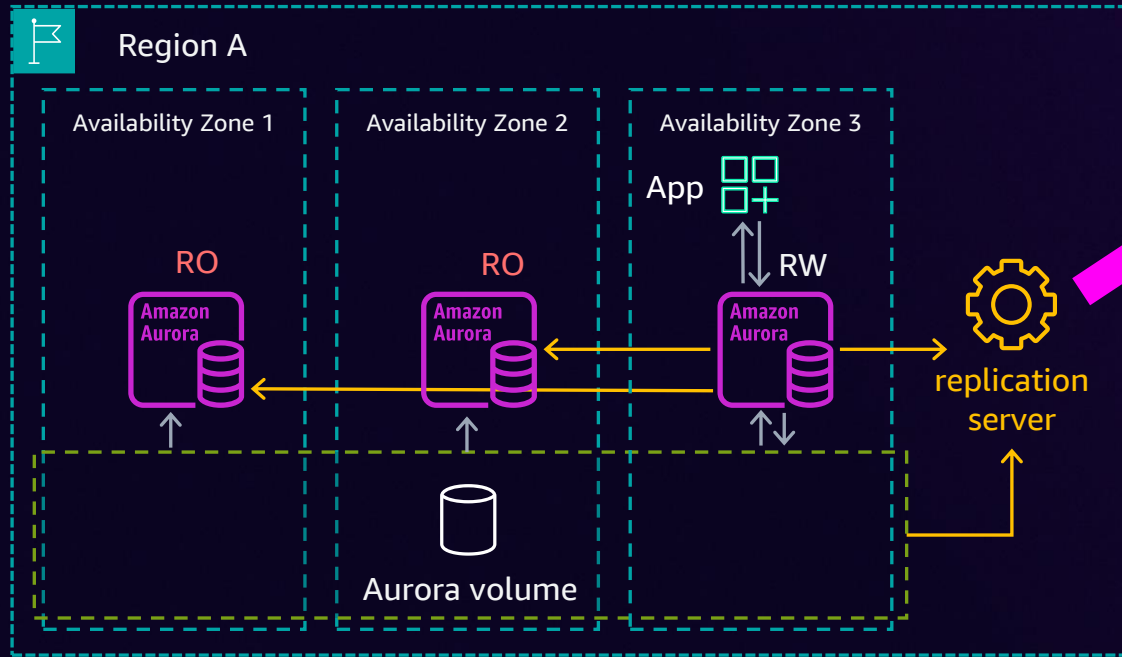
Your journey



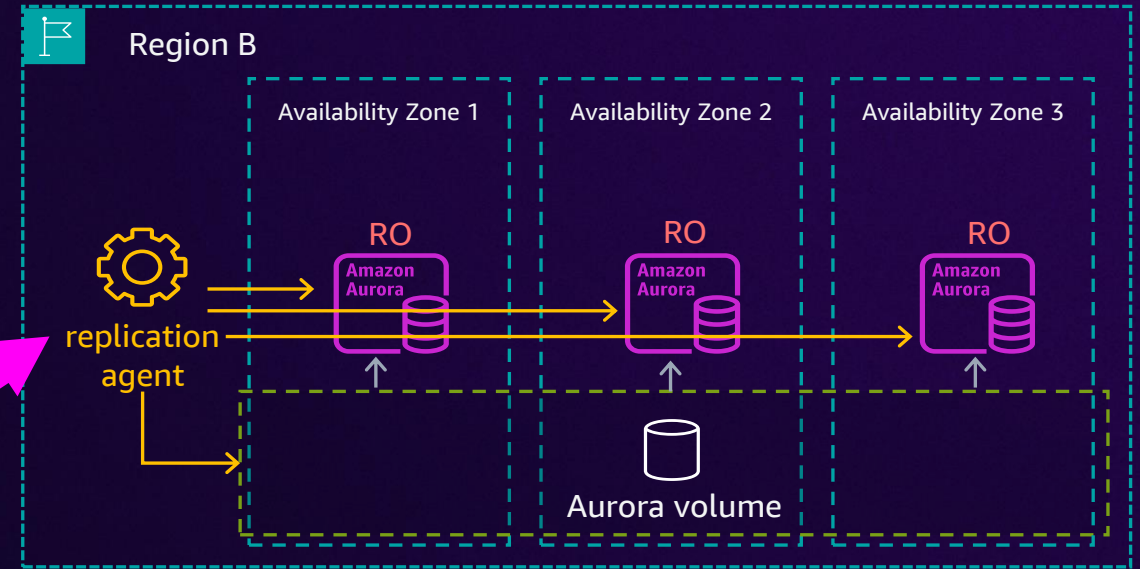
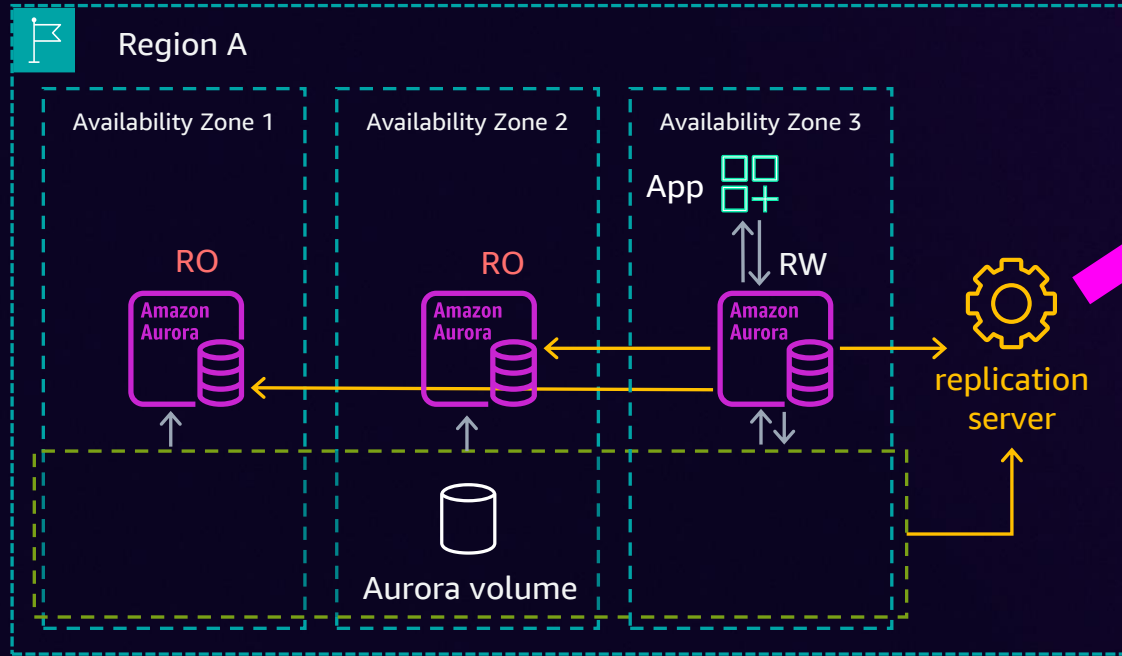
Your journey



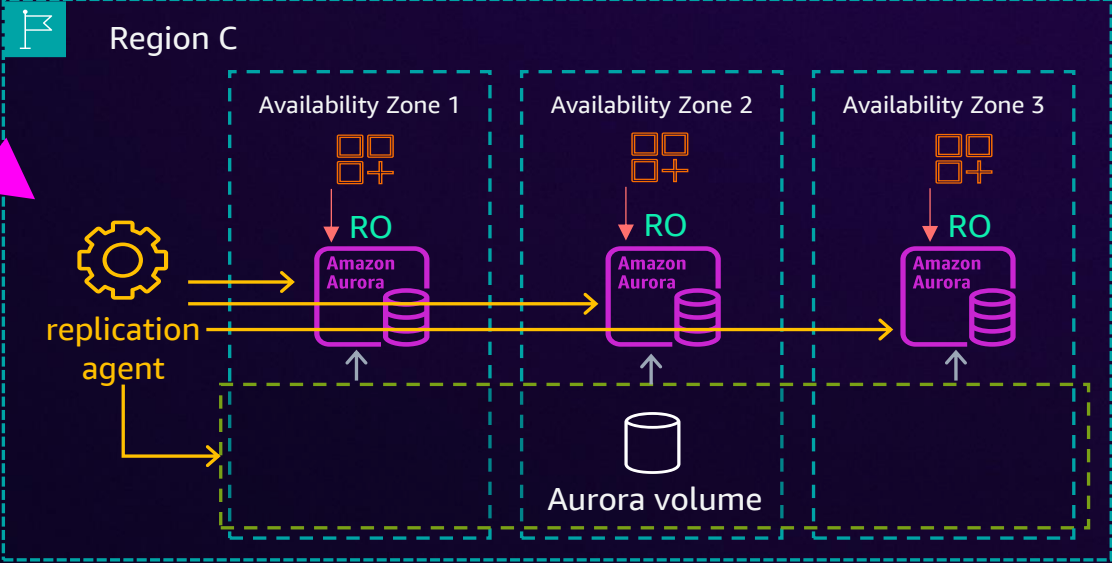
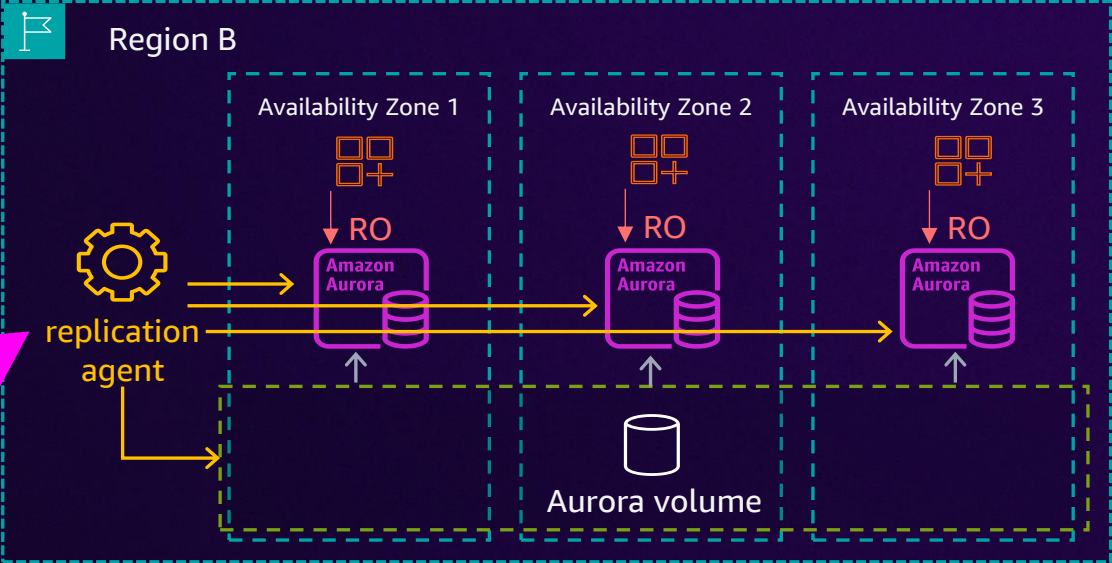
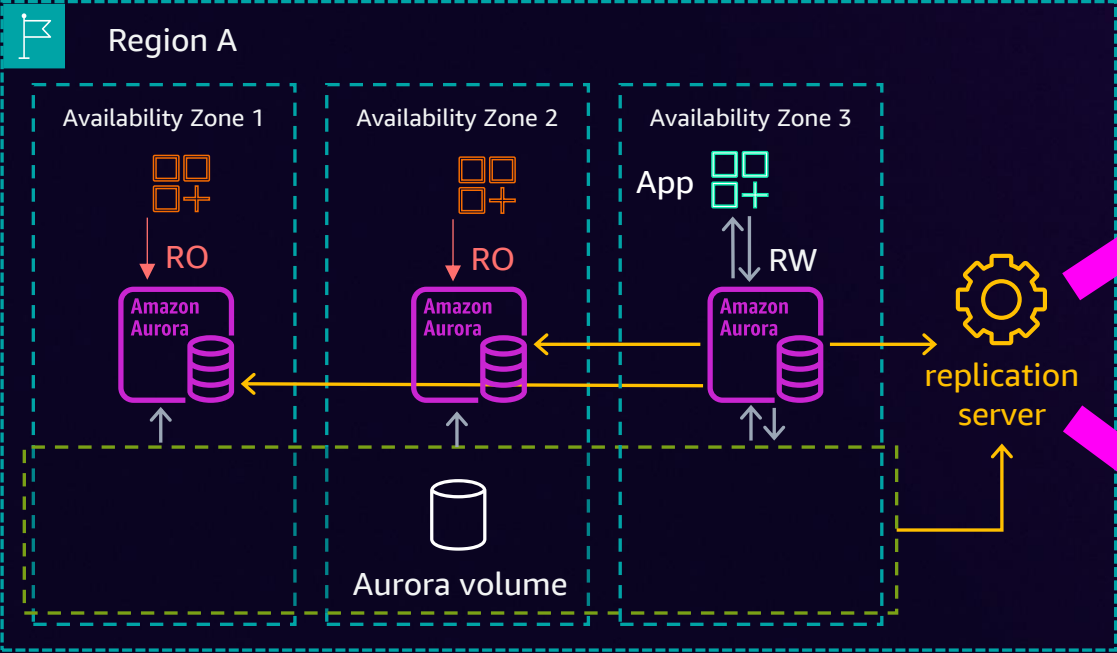
Your journey



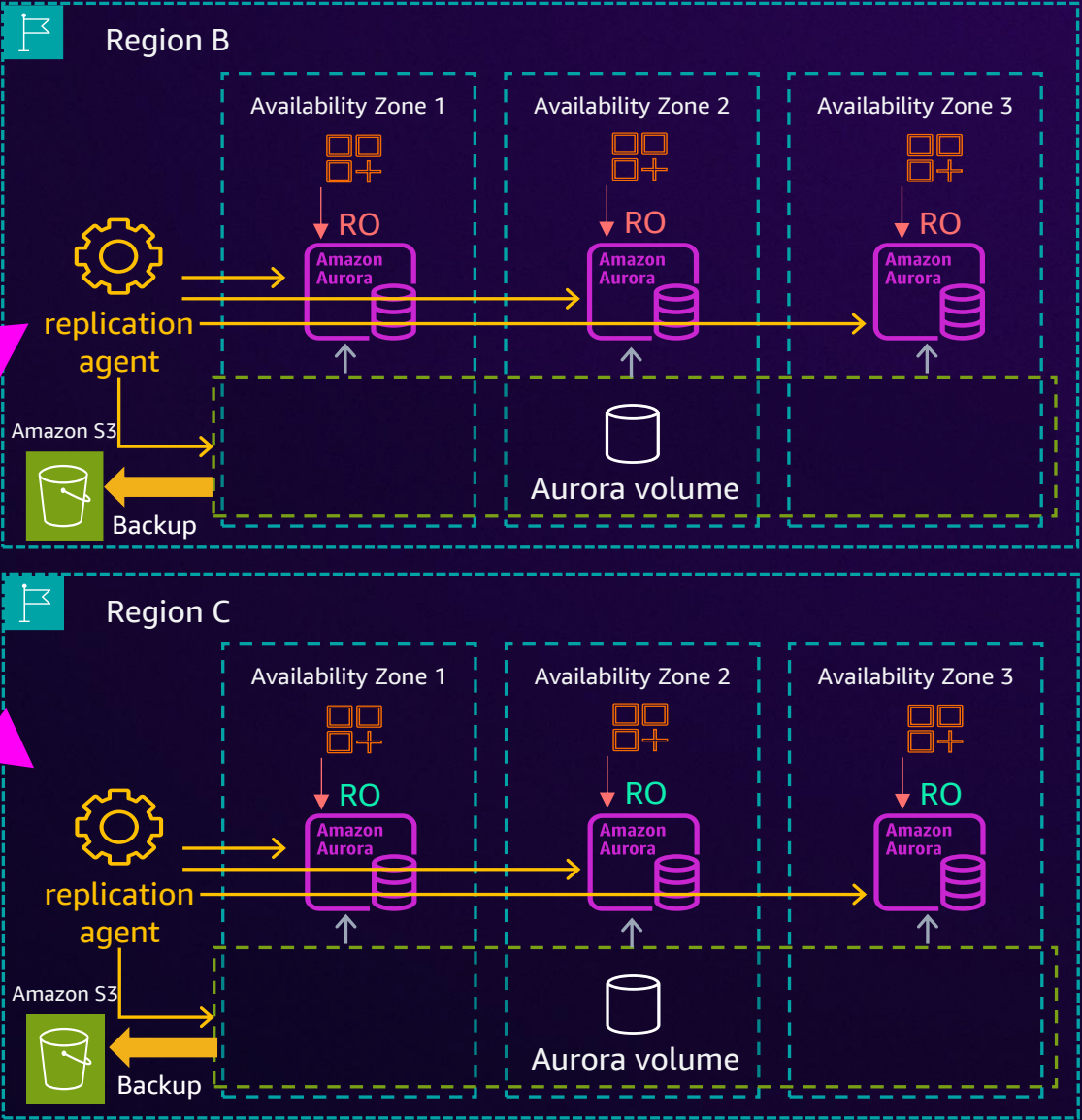
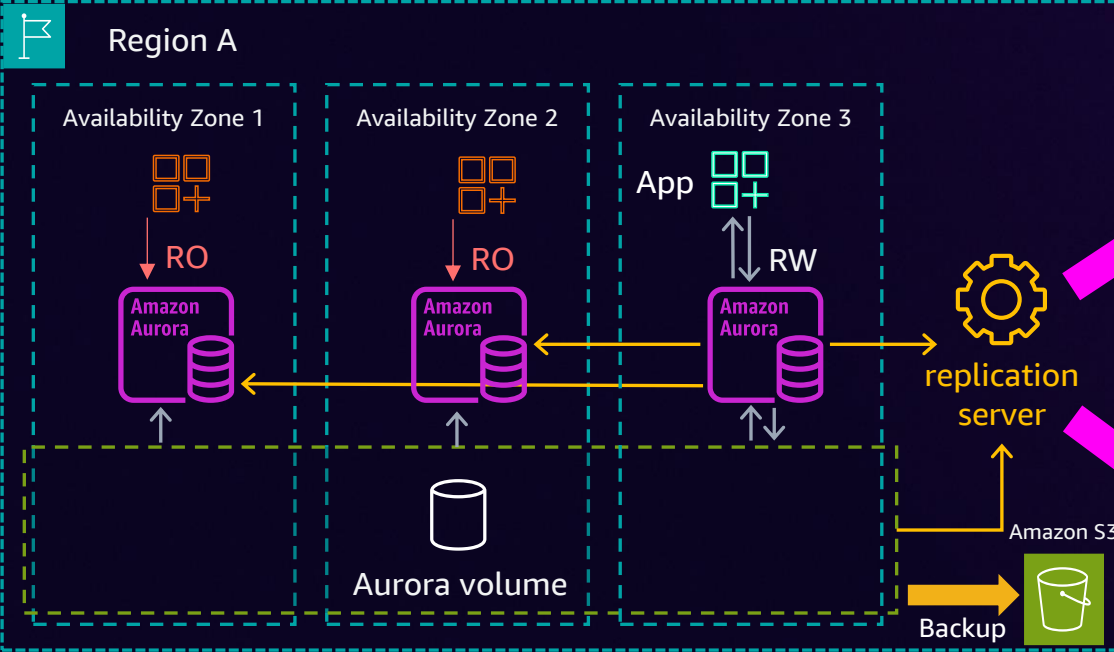
Your journey



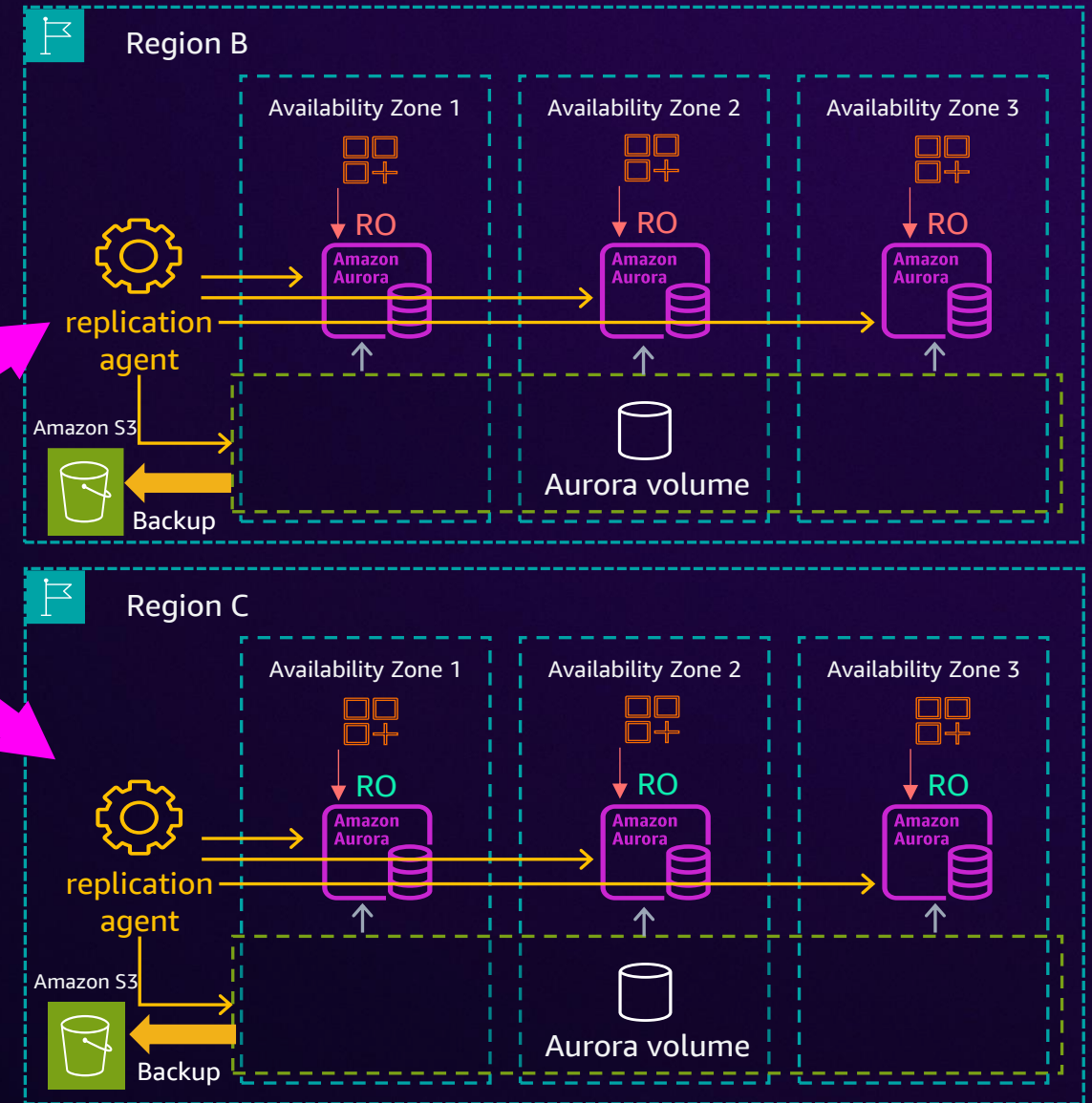
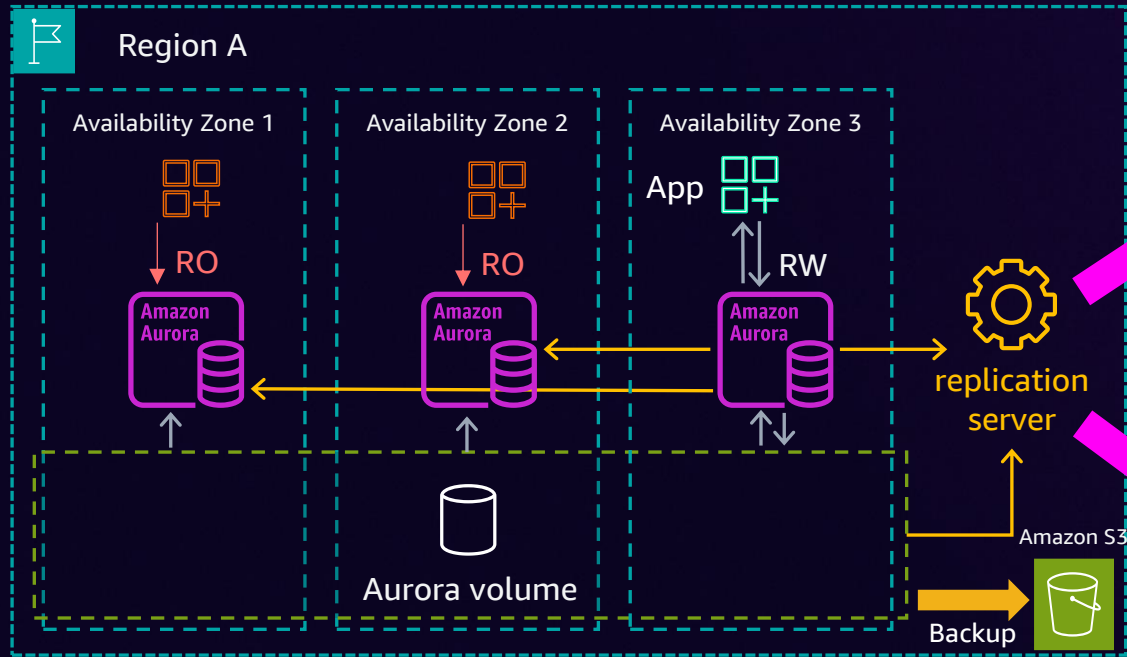
Your journey



Your journey



Your journey



RTO \approx 2+ minutes
RPO \approx sub 1 second or `global_db_rpo`

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