



Relational Database Service (RDS)

EXAM CHEAT SHEET

SOLUTIONS ARCHITECT

- Read replicas are available in Amazon RDS for MySQL, MariaDB, and PostgreSQL. MySQL read replicas only supported with InnoDB storage engine only. You can create second tier read replicas with MySQL
- RDS MySQL features such as Point-In-Time restore and snapshot restore require a recoverable storage engine and are supported with InnoDB.
- Reboot with failover can be used with Multi-AZ to test failover.
- SSL encryption of connection is available.
- RDS Oracle can be BYOL or Enterprise License.
- Automated snapshots are deleted by default when instance is terminated. Manual snapshots are retained. Snapshots are stored in S3.
- No charge for data transfer to EC2 within same AZ.
- DescribeEvents (API/SDK) or describe-events (CLI) lists events from the past 14 days, including failover actions.

DEVELOPER

- All of the above and;
- RDS is not autoscaling and cannot be used behind an ELB.
- You cannot select AZ when creating multi-AZ deployments.
- You manage your DB engine configuration through the use of parameters in a DB parameter group. DB parameter groups act as a container for engine configuration values that are applied to one or more DB instances.

SYSOPS ADMINISTRATOR

- All of the above and;
- Understand troubleshooting:
 - http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Troubleshooting.html
- Failover of Multi-AZ changes the DNS record of the master to point to the standby.
- Multi AZ maintenance process:
 - Perform maintenance on the standby.
 - Promote the standby to primary.
 - Perform maintenance on the old primary, which becomes the new standby.

- Maintenance that require a resource to be offline include scale compute operations, which generally take only a few minutes from start to finish, and required operating system or database patching.