Threats and Measures to Mitigate Them

S3: Threat-Data theft, Solution- IAM polices configured with least privilege principle, Bucket policies to constrain access.

Cloud9: Threat-Data theft, Solution- Code is stored in a secure version control system i.e., AWS CodeCommit

Amazon VPC: Threat- Data breach and theft, Solution- Subnets across multiple availability zones to ensure a highly available, fault tolerant, and scalable application. Network ACLs to control access to the subnets and security groups to control traffic to EC2 instances in the subnets. Managed access to VPC using IAM identity federation, users, and roles.

RDS: Threat- Data theft/manipulation, Solution- RDS is run in our VPC with subnets, network ACLs, and security groups

IAM: Threat- Breach due to overly permissive policies, Solution- Policies with least privilege principle