

TechNova Inc. - Cloud & Network Infrastructure

Overview

TechNova Inc. operates a hybrid cloud infrastructure combining AWS and on-premise data centers.

The primary cloud provider is AWS, with services deployed across us-east-1 and us-west-2 regions.

On-premise servers are located in Chicago and Frankfurt for compliance and redundancy.

Traffic is routed through a global CDN and protected by a web application firewall (WAF).

Network Architecture

The company uses a hub-and-spoke VPC model with centralized security inspection.

All production services run inside private subnets behind load balancers.

Zero-trust networking principles are enforced via identity-aware proxies.

Site-to-site VPN and Direct Connect link the on-premise data centers to AWS.

Disaster Recovery

Critical systems have a Recovery Time Objective (RTO) of 2 hours and Recovery Point Objective (RPO) of 15 minutes.

Automated backups are stored in cross-region S3 buckets.

Quarterly failover drills are conducted to validate recovery procedures.

Database replication is configured using multi-AZ and cross-region replicas.