RADCOM'S SEAMLESS MIGRATION AND MODERNIZATION JOURNEY ON AWS CLOUD

aws PARTNER Premier Tier Services

ABOUT RADCOM

Radcom (Nasdaq: RDCM) is a leading provider of intelligent assurance and network analytics solutions for telecom operators transitioning to 5G and beyond. Its cloud-native platform, RADCOM ACE, integrates AIOps and generative AI to deliver real-time, end-to-end network observability and automation, from the RAN to the core.

The RADCOM Network Intelligence suite, which includes Network Visibility, Service Assurance, and Network Insights, is designed to be open, vendor-neutral, and cloud-agnostic. These solutions empower operators to reduce operational costs, improve service quality, and create customer-centric networks through powerful, AI-driven analytics.

CHALLENGES

Radcom faced the critical task of migrating workloads from two major data centers, "Sardinia1" and "Robinio," to AWS, while modernizing its platform architecture and maintaining high performance and availability. The core infrastructure, built on Kubernetes, supported high-volume customer services and was tightly integrated with Prometheus and Grafana monitoring stacks.

KEY CHALLENGES INCLUDED:

- Designing for multi-account, multi-tenant architecture with strict security isolation
- Meeting enterprise-grade SLAs (99.9% for application, 99.95% for data)
- Automating infrastructure provisioning (IaaC) and CI/CD pipelines
- Supporting hybrid networking, high-throughput traffic, and complex VPC designs
- Ensuring cost efficiency and centralized operations across environments
- Meeting stringent compliance and security standards with full encryption and auditability

Radcom required an experienced partner to assess, plan, and execute a robust, secure, and scalable cloud-native transformation, while also building internal cloud capabilities across DevOps, operations, and governance.

SOLUTION

In partnership with Commit, Radcom executed a comprehensive migration and modernization program, leveraging Commit's AWS expertise and proven methodologies. The project began with a detailed assessment of Radcom's on-prem environments, including physical and logical architecture, security posture, APIs, and licensing. Commit designed a Well-Architected solution leveraging AWS native services to deliver a multi-account, multi-tenant Landing Zone architecture.

KEY COMPONENTS INCLUDED:

- A production-grade EKS-based application platform with full autoscaling and resilience
- Terraform-driven IaaC and end-to-end CI/CD automation
- Separation of customer environments using dedicated AWS accounts for isolation and control
- Centralized monitoring and security operations using AWS CloudWatch, GuardDuty, Config, and IBM QROC
- Full encryption in transit and at rest using AWS KMS, Secrets Manager, and SSM
- Scalable data and caching layers using Amazon EFS, ElastiCache, and RDS
- Cloud-native backup, restore, and DR processes meeting 4hr RPO and 12hr RTO targets
- Role-Based Access Control (RBAC), secure DNS (Route 53), and ACM-based certificate management
- Central management layer overseeing all environments with unified logging and alerting

Commit also worked closely with Radcom to build operational excellence through training, testing, and phased deployment into production. Metrics and KPIs were defined to validate functionality, scalability, and resilience across environments.

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RESULTS

- **Modernized Cloud Platform**: Radcom now operates on a secure, scalable, and cloud-native architecture aligned with AWS best practices. The platform supports thousands of customer instances with full isolation, automation, and centralized operations.
- **Operational Efficiency**: With infrastructure fully defined as code and CI/CD in place, new environments can be provisioned quickly and reliably. Monitoring and alerting systems proactively address issues, reducing downtime and improving service quality.
- **Security & Compliance by Design**: Commit implemented multi-layered security, including network segmentation, centralized logging, and tenant-level key management, ensuring full adherence to compliance requirements and internal governance standards.
- **Cost Optimization & Visibility**: Through tagging, resource rightsizing, and cloud-native automation, Radcom has achieved significant cost efficiencies. Reporting is streamlined with per-tenant visibility into cloud usage and costs.
- **Future-Ready Architecture**: The architecture is built for scale and expansion, including full support for multi-region deployment, tenant onboarding, and service duplication via automated processes.

CONTACT OUR AWS CLOUD EXPERTS

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