RADCOM ACE FOR AMAZON WEB SERVICES (AWS)

RADCOM ACE for AWS runs as a cloud-native function within the AWS cloud and uses microservices and containerized architecture that can easily grow or shrink based on loads and demands. Controlled by Amazon EKS, it offers a container-based orchestration system and provides a closed-loop, zero-touch approach to assurance on the cloud, both on-premises and on the operators' infrastructure.
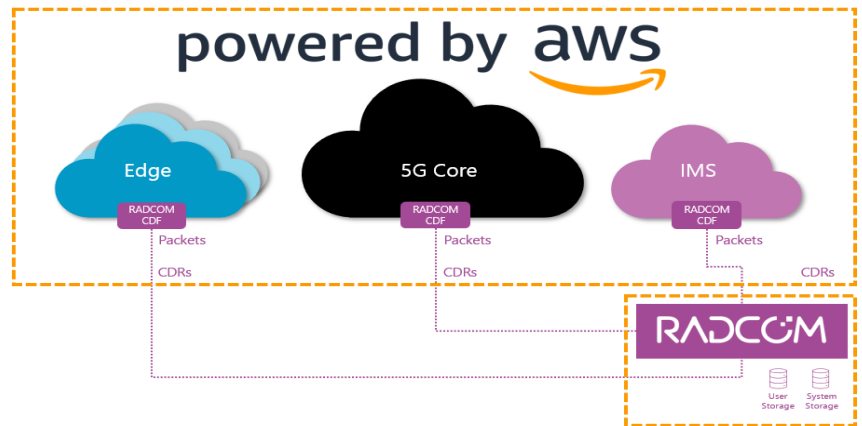

Figure 1
RADCOM ACE powered by AWS offers complete visibility from edge to core

RADCOM ACE for AWS Cloud provides true cloud-native assurance automation with complete lifecycle management (LCM). It is faster, simpler, and easier to deploy, scale, and adapt as the operator's network evolves, offering unparalleled assurance and operational agility for cloud-based 5G deployments. With its innovative cloud assurance technology, RADCOM ACE provides operators flexibility, efficiency, and savings while delivering AI-powered insights, real-time subscriber analytics, and advanced troubleshooting capabilities. Enabling operators to proactively ensure subscribers enjoy the best customer experience while using AWS to roll out 5G services rapidly.
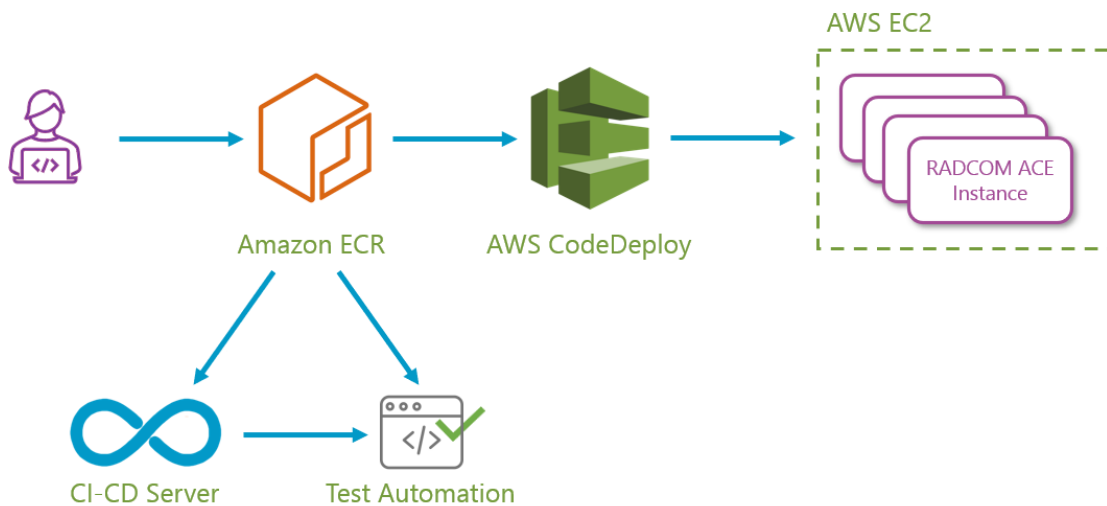

Figure 2 Rapid updates are provided through the AWS CI/CD software pipeline

RADCOM ACE for AWS Advantages

- Automated assurance for AWS cloud and Amazon EKS Anywhere (EKS-A)
- Complete assurance lifecycle management (LCM)
- Fully automated and controlled by Amazon CodeDeploy
- Uses Amazon Virtual Private Cloud (Amazon VPC) traffic to mirror traffic
- Integrates into the AWS continuous integration and continuous delivery (CI/CD) software pipeline
- Utilizes Amazon Managed Streaming for Apache Kafka (MSK) to ingest and process streaming data in real-time and Amazon DynamoDB for persisting the data

Automated Insights

RADCOM ACE for the cloud integrates built-in AI/ML capabilities to monitor, analyze, and resolve issues automatically using a closed-loop approach to network operations. The built-in AI and ML capabilities and heuristic modeling (through RADCOM AIM) , enable various AI-based network insights, such as automated anomaly detection and root cause analysis, real-time streaming analytics, predictive analytics, and quality of experience analytics for encrypted data.

These AI capabilities significantly enhance the assurance capabilities and help proactively optimize service quality and detect and resolve network issues automatically. Predictive network and service analytics will help prevent quality of service (QoS) degradations and plan resource capacity more effectively.

Fully Distributed and Resource Efficient

RADCOM ACE is a fully distributed cloud solution. Hence, it stores data close to the edge and only moves a small percentage of the monitored data into the solution backend (deployed in the core), which helps operators maintain an efficient network that frees up cloud resources. In addition, RADCOM ACE provides engineers access to fully correlated data on-demand through innovative features, such as rule-based correlation and efficient data storage techniques across different locations and sites.

Complete Network Visibility

RADCOM VIA offers highly agile, scalable, and resource-efficient containerized and automated tapping solutions for complete network visibility. No dedicated hardware is necessary, and it is centrally managed across multiple clouds.

The solution's advantages include:
- The most efficient tapping solution for 5G SA networks
- Minimal resource requirements
- Dynamic tapping added automatically as the network scales
- Easy deployment
- Tapping is non-intrusive, and no modifications are required
- Vendor and cloud-agnostic

Holistic RAN to Core 5G-SA Monitoring

- Improves quality and boosts customer experience across multiple domains
- AI-infused assurance, saving mean time to resolution for all services
- Built from the ground up for 5G SA and the cloud
- Monetization with service optimizations and smart insights
- Saves resources and adapts in real-time with automation
- Delivers long-term value with support for advanced 5G and beyond
- Offers multi-cloud capabilities

RADCOM (Nasdaq: RDCM) delivers real-time network analysis, troubleshooting, and AI-driven insights to ensure a superior customer experience. Utilizing cutting-edge technologies for over 30 years, we provide dynamic service assurance through the following solutions, including: RADCOM Customer Experience, RADCOM Network Performance, RADCOM Operational Efficiencies, RADCOM Network Troubleshooting, RADCOM Revenue Generation, RADCOM Service Quality and RADCOM Network Tapping.

For more information visit: https://radcom.com/