



Speakers





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Are you familiar with Radius?

*Hint, the CNCF project, not the 90s network protocol, RADIUS :)



MISSION

Partner across Microsoft and the opensource community to explore and deliver industry-changing products





An IDP Reference Architecture from the Cloud Native Operational Excellence (CNOE) Project



source: https://cnoe.io/docs/intro/technology



Cloud-native application platform







Cloud-native application platform













C redius



Team Collaboration

Radius Application and Environments allow developers to work with operations on application definition + delivery



Infrastructure Recipes

Swappable infrastructure with popular IaC tools that follows org best practices and IT policy by default



Understand how services and infrastructure in an application are

interconnected



Neutral

Deploy across development, onpremises, and cloud environments with a consistent experience DEMO

Deploying an Application On-Premises and to AWS



Radius Resource Types



Extending Radius Resource Types

Enables platform engineers to build customized developer experiences

Build custom application resource catalog

Browsable by developers with documentation

Model any resource—abstract or foundational

Contract between developers and the platform

MyCompany Resource Catalog



DEMO

Adding Al to an Existing Application

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Radius Demo Container Info Todo List	
Todo list No items yet!	Add an item Title Mat do you need to do? Add Peedback ? Copilot feedback



Cloud-native application platform





The challenge

- Accelerate service delivery
- Align Dev+Ops expectations
- Support different app and infra lifecycles
- Cover the IT lifecycle, not just infra

The guardrails

- Do not reinvent the wheel
- Prevent cognitive overload
- Help delivery, not burden devops
- Ensure a migration path for the current Terraform module library

The deliverables

- Application as a first-class entity
- Custom types for internal IT services
- An API for Dev+Ops

1. Define your next deliverable

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1. Define your next deliverable

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Developers

DEV PORTAL

1. Define your next deliverable



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2. Create a DeploymentTemplate

convert app.json app.yaml ghcr.io/kubecon/radiusdemo 1.0.0

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Dev Tools

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```
rad recipe register staticfe --resource-type "Applications.Core/extenders" --template-kind terraform
    --template-path "git::https://(…)/recipes/static-fe?ref=v1.0-local" or
    --template-path "git::https://(…)/recipes/static-fe?ref=v1.0"
```


staticfe recipe uses local (and remote) K8s resources

staticfe recipe uses shared resources

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Generating value thru Radius

A standard for application definition (and dependencies)

Enable the right conversations

- Business value
- Feature testing
- Universal observability
- Time to detect and repair

Ensure patterns, not ad-hoc choreographies

- Best of breed implementations
- Ensure security and regulatory compliance

Generating value thru Radius

Faster application lifecycles (and decoupled lifecycles)

Just-in-time infrastructure

- NFRs defined by devs
- Shared contract
- Predefined SKUs and SLAs

Same contracts used for:

- Dev workstation
- On-prem
- Multiple cloud providers

Independent infrastructure lifecycle

- Infra service definitions can evolve at their own pace
- Service change impact can be assessed against current requests and SLAs

Generating value thru Radius

Adoption of GitOps Best Practices

Use standard app processes for infra deployment

- CI/CD
- A-B testing
- Progressive deployments
- ...

Use standard app processes for infra customization

- Helm charts
- Kustomize
- ...

Solve the right problems

Join the community

Documentation

docs.radapp.io

Learn how to get started with Radius and start radifying your own applications

