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**RADIANT Swift Deployer User Guide**

**Version:** 5.52.17  
**Platform:** macOS 13.0+ (Ventura and later)  
**Last Updated:** January 24, 2026

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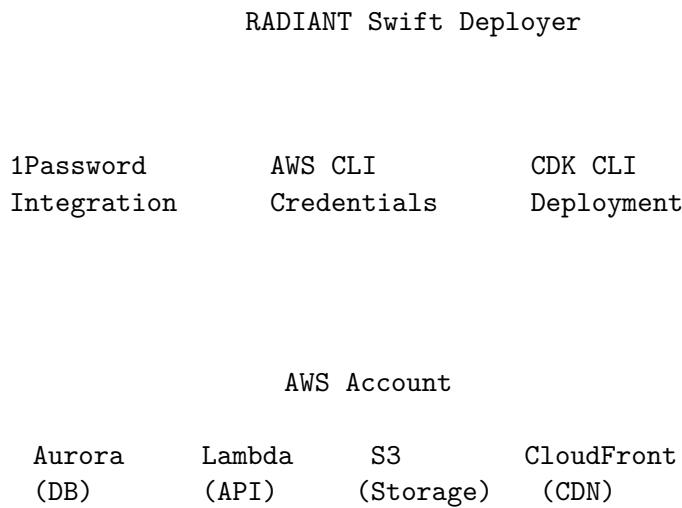
---

## 1. Overview

The RADIANT Swift Deployer is a native macOS application for deploying and managing RADIANT AI platform infrastructure on AWS. It provides a visual interface for:

- **Infrastructure Deployment:** Deploy complete RADIANT stacks to AWS
- **Domain Configuration:** Configure URLs for all platform applications
- **AI Model Management:** Configure external and self-hosted AI models
- **Monitoring:** Real-time health checks and cost tracking
- **Compliance:** HIPAA, SOC2, and GDPR compliance tools

## Architecture



## RADIANT Applications

The deployer manages five core applications:

Application	Description	Required
<b>RADIANT Admin</b>	Platform administration dashboard	Yes
<b>Think Tank Admin</b>	Think Tank configuration and management	No
<b>Curator</b>	Knowledge graph curation and fact verification	No
<b>Think Tank</b>	Consumer AI chat interface	Yes
<b>External API</b>	REST/GraphQL API for integrations	Yes

## 2. System Requirements

### Minimum Requirements

Component	Requirement
<b>macOS</b>	13.0 (Ventura) or later
<b>Processor</b>	Apple Silicon (M1/M2/M3) or Intel
<b>Memory</b>	8 GB RAM
<b>Storage</b>	2 GB available space
<b>Network</b>	Stable internet connection

## Required Software

Software	Purpose	Installation
<b>1Password</b>	Credential management	<a href="https://1password.com">1password.com</a>
<b>AWS CLI v2</b>	AWS operations	<code>brew install awscli</code>
<b>Node.js 18+</b>	CDK runtime	<code>brew install node@18</code>
<b>AWS CDK</b>	Infrastructure deployment	<code>npm install -g aws-cdk</code>

## AWS Account Requirements

- AWS account with administrator access
- IAM user or role with deployment permissions
- Sufficient service quotas for:
  - Aurora PostgreSQL clusters
  - Lambda functions (100+)
  - S3 buckets
  - CloudFront distributions
  - SageMaker endpoints (for self-hosted models)

## 3. Installation

### Download

1. Download `Radiant Deployer.app` from the releases page
2. Move to `/Applications` folder
3. Right-click → Open (first launch only, to bypass Gatekeeper)

### First Launch

On first launch, macOS may show a security warning:

1. Click **Cancel** on the warning dialog
2. Open **System Preferences** → **Privacy & Security**
3. Click **Open Anyway** next to “Radiant Deployer was blocked”
4. Click **Open** in the confirmation dialog

## Verify Installation

After launching, verify the version in the window header:

RADIANT Deployer v5.52.17

---

## 4. First Launch & Setup

### 1Password Setup

The deployer requires 1Password for secure credential management.

**Step 1:** Install 1Password CLI

```
brew install 1password-cli
```

**Step 2:** Enable CLI integration 1. Open 1Password app 2. Go to **Settings** → **Developer** 3. Enable **Integrate with 1Password CLI**

**Step 3:** Sign in to 1Password

```
op signin
```

**Step 4:** Verify in Deployer - The deployer will show a green checkmark when 1Password is configured - If not configured, you'll see the 1Password Setup screen

### AWS Credentials Setup

**Option A:** Store in 1Password (Recommended)

1. Create a new item in 1Password with:
  - **Title:** RADIANT AWS Credentials
  - **AWS Access Key ID:** Your access key
  - **AWS Secret Access Key:** Your secret key
  - **Region:** e.g., us-east-1
2. Tag the item with **radiant** for easy discovery

**Option B:** Use AWS CLI profiles

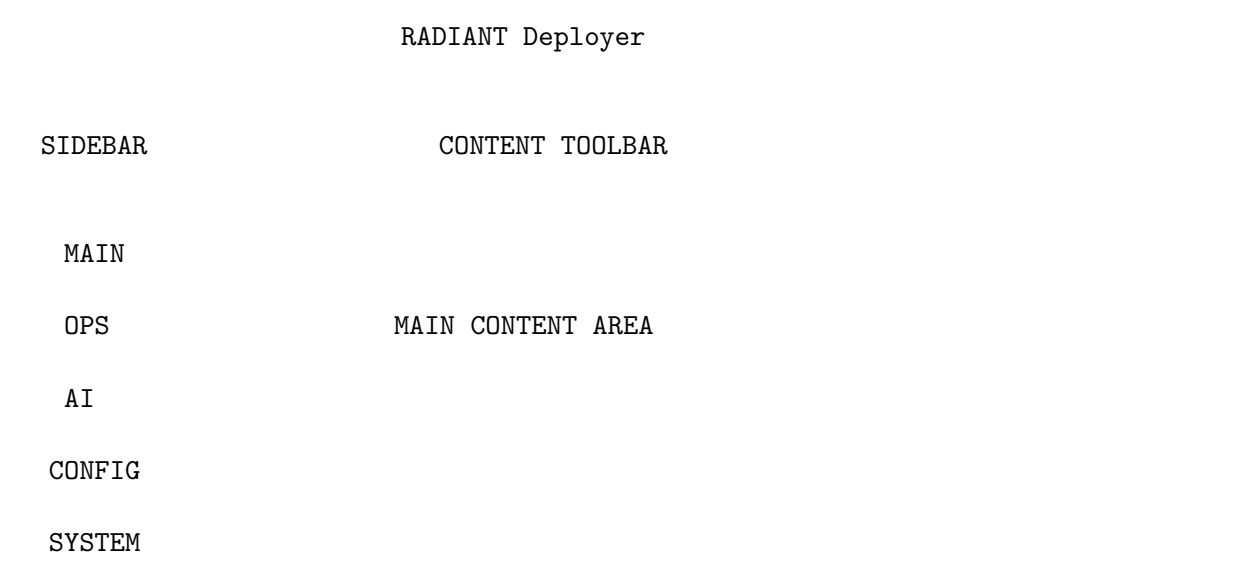
```
aws configure --profile radiant-deploy
```

### Initial Configuration Checklist

- ☐ 1Password installed and CLI enabled
  - ☐ AWS credentials stored securely
  - ☐ AWS CDK bootstrapped in target region
  - ☐ Domain purchased and DNS access available
  - ☐ SSL certificate requested (or will use ACM)
-

5. Main Interface

Window Layout



Sidebar Sections

Section	Tabs	Purpose
MAIN	Dashboard, Apps, Deploy	Core operations
OPERATIONS	Instances, Snapshots, Packages, History	Management
AI REGISTRY	Providers, Models, Self-Hosted	AI configuration
CONFIGURATION	Domain URLs, Email, Curator	Platform config
ADVANCED	Multi-Region, A/B Testing, Cortex Memory	Advanced features
SECURITY	Security, Compliance	Security settings
SYSTEM	Costs, Monitoring, Settings	System management

Environment Selector

At the top of the sidebar, select the target environment:

Environment	Purpose	Color
<b>Development</b>	Testing and development	Blue
<b>Staging</b>	Pre-production testing	Orange
<b>Production</b>	Live production	Green

## 6. Dashboard

The Dashboard provides an at-a-glance view of your RADIANT deployment.

### Status Cards

Card	Information
<b>Version</b>	Current deployed version with update indicator
<b>Health</b>	Overall system health (Healthy/Degraded/Unhealthy)
<b>Costs</b>	Month-to-date AWS costs
<b>Active Users</b>	Current active user count

### Quick Actions

- **Deploy** → Jump to deployment view
- **View Logs** → Open CloudWatch logs
- **Health Check** → Run comprehensive health check
- **Refresh** → Refresh all status indicators

### Recent Activity

Shows the last 10 deployment and configuration changes.

## 7. Applications Management

### Viewing Applications

The **Apps** tab shows all RADIANT applications:

#### RADIANT Applications

RADIANT Admin Platform administration	Enabled	<a href="https://acme.com/admin">https://acme.com/admin</a>
Think Tank Admin Think Tank configuration	Enabled	<a href="https://acme.com/tt-admin">https://acme.com/tt-admin</a>



Curator Knowledge graph curation	Enabled	<a href="https://acme.com/curator">https://acme.com/curator</a>
Think Tank Consumer AI interface	Enabled	<a href="https://acme.com/">https://acme.com/</a>
External API REST/GraphQL API	Enabled	<a href="https://acme.com/api">https://acme.com/api</a>

## Per-App Actions

Click on any application to: - View health status - Open in browser - View CloudWatch logs - Restart (Lambda functions) - Scale (if applicable)

## 8. Deployment

### Deployment Modes

Mode	When Used	Description
<b>Fresh Install</b>	No existing deployment	Full infrastructure creation
<b>Update</b>	Existing deployment, newer version	Incremental update
<b>Rollback</b>	After failed update	Restore from snapshot

### Deployment Process

**Step 1: Select Application** - Choose the RADIANT platform instance to deploy

**Step 2: Select Environment** - Development, Staging, or Production

**Step 3: Configure Parameters**

Parameter	Description	Default
<b>Tier</b>	Infrastructure size	Based on use case
<b>Region</b>	AWS region	us-east-1
<b>Multi-AZ</b>	High availability	Growth+ tiers
<b>Self-Hosted Models</b>	SageMaker endpoints	Growth+ tiers

**Step 4: Review & Deploy** - Review all settings - Click **Deploy** to begin - Monitor progress in the deployment log

### Tier Levels

Tier	Monthly Cost	Use Case	Features
<b>SEED</b>	\$50-150	Development	Minimal resources
<b>STARTER</b>	\$200-400	Small production	WAF, GuardDuty
<b>GROWTH</b>	\$1,000-2,500	Medium production	Self-hosted models
<b>SCALE</b>	\$4,000-8,000	Large production	Multi-region
<b>ENTERPRISE</b>	\$15,000-35,000	Global deployment	Full features

## Deployment Log

The deployment log shows real-time progress:

```
[12:00:01] Starting deployment v5.52.17...
[12:00:02] Credentials validated
[12:00:05] Package downloaded (45.2 MB)
[12:00:10] → Deploying NetworkStack...
[12:02:30] NetworkStack deployed
[12:02:31] → Deploying DatabaseStack...
[12:05:45] DatabaseStack deployed
...
[12:15:00] Deployment complete!
```

## 9. Domain URL Configuration

### Overview

Configure how users access each RADIANT application.

### Routing Strategies

#### Subdomain-Based:

```
admin.acme.radiant.ai      → RADIANT Admin
thinktank-admin.acme.radiant.ai → Think Tank Admin
curator.acme.radiant.ai    → Curator
app.acme.radiant.ai        → Think Tank
api.acme.radiant.ai        → External API
```

#### Path-Based (Default):

```
acme.radiant.ai/admin      → RADIANT Admin
acme.radiant.ai/thinktank-admin → Think Tank Admin
acme.radiant.ai/curator    → Curator
acme.radiant.ai/          → Think Tank
acme.radiant.ai/api        → External API
```

### Configuration Steps

**Step 1: Enter Base Domain** - Enter your domain without protocol: `acme.radiant.ai`

**Step 2: Choose Routing Strategy** - Subdomain: Each app on its own subdomain - Path-Based: All apps under one domain with paths

**Step 3: Configure Per-App Settings** - Enable/disable optional apps - Customize subdomains or paths - Set cache policies

**Step 4: Validate DNS** - Click **Validate** to check DNS configuration - Green checkmarks indicate proper setup

## DNS Records

For **subdomain-based** routing, create these DNS records:

Type	Name	Value
CNAME	admin	d123456.cloudfront.net
CNAME	app	d123456.cloudfront.net
CNAME	api	d123456.cloudfront.net
CNAME	curator	d123456.cloudfront.net
CNAME	thinktank-admin	d123456.cloudfront.net

For **path-based** routing:

Type	Name	Value
A (ALIAS)	@	d123456.cloudfront.net

## SSL Certificates

The deployer automatically provisions SSL certificates via AWS ACM:

1. ACM requests certificate for your domain
2. Validation records are displayed
3. Add CNAME records to your DNS
4. Wait for validation (usually 5-30 minutes)
5. Certificate is automatically attached to CloudFront

## 10. Feature Flags

### Overview

Control which platform features are enabled for deployment.

### Core Features

Feature	Default	Description
<b>Cortex Memory</b>	On	Three-tier memory system (Hot/Warm/Cold)
<b>Ego System</b>	On	Zero-cost persistent AI identity

Feature	Default	Description
<b>Compliance Export</b>	On	HIPAA, SOC2, GDPR-formatted exports

### Think Tank Features

Feature	Default	Description
<b>Time Machine</b>	On	Fork conversations, create checkpoints
<b>Collaboration</b>	On	Real-time multi-user sessions

### Optional Applications

Feature	Default	Minimum Tier
<b>Curator</b>	On	Growth

### Infrastructure Features

Feature	Default	Minimum Tier
<b>Self-Hosted Models</b>	Off	Growth
<b>Multi-Region</b>	Off	Scale

### Accessing Feature Flags

1. Go to **Settings** → **Features** tab
2. Toggle features on/off
3. Click **Apply** to save
4. Redeploy to activate changes

## 11. AI Registry

### Providers Tab

View and configure AI providers:

Provider	Models	Status
<b>OpenAI</b>	GPT-4o, GPT-4-turbo, etc.	Active
<b>Anthropic</b>	Claude 3.5 Sonnet, etc.	Active
<b>Google</b>	Gemini 1.5 Pro, etc.	Active
<b>Amazon Bedrock</b>	Claude, Titan, etc.	Active
<b>Self-Hosted</b>	Custom models	Configure

## Adding Provider Keys

1. Click **Add Provider**
2. Select provider from dropdown
3. Enter API key
4. Click **Validate** to test connection
5. Click **Save**

Keys are securely stored in AWS Secrets Manager.

## Models Tab

View all available AI models:

AI Models		Filter: All
GPT-4o Context: 128K	OpenAI Speed: Fast	\$2.50/1M tokens Quality: Excellent
Claude 3.5 Sonnet Context: 200K	Anthropic Speed: Fast	\$3.00/1M tokens Quality: Excellent
Gemini 1.5 Pro Context: 1M	Google Speed: Medium	\$1.25/1M tokens Quality: Very Good

## Model Categories

Models are organized by capability:

Category	Use Case
<b>Reasoning</b>	Complex analysis, decision-making
<b>Creative</b>	Writing, brainstorming
<b>Code</b>	Programming, debugging
<b>Fast</b>	Quick responses, low latency
<b>Vision</b>	Image analysis
<b>Embedding</b>	Vector search

## 12. Self-Hosted Models

### Overview

Deploy AI models on your own AWS infrastructure for: - Data sovereignty - Reduced latency - Cost optimization at scale - Custom fine-tuned models

## Supported Models

Model	Size	Instance Type	Monthly Cost
Llama 3.1 8B	8B	ml.g5.xlarge	~\$150
Llama 3.1 70B	70B	ml.g5.12xlarge	~\$1,200
Mixtral 8x7B	46.7B	ml.g5.4xlarge	~\$400
CodeLlama 34B	34B	ml.g5.2xlarge	~\$300

## Deployment Steps

1. Go to **Self-Hosted** tab
2. Click **Add Model**
3. Select model from catalog
4. Choose instance type
5. Set scaling parameters
6. Click **Deploy**

## Thermal States

Self-hosted models have thermal states to optimize costs:

State	Description	Response Time
<b>HOT</b>	Running, ready	Immediate
<b>WARM</b>	Scaled down, quick start	30-60 seconds
<b>COLD</b>	Stopped	3-5 minutes
<b>OFF</b>	Deleted	Full deploy

## Auto-Scaling

Configure auto-scaling based on: - Request count - Queue depth - Time of day (scheduled)

## 13. Multi-Region Deployment

### Overview

Deploy RADIANT across multiple AWS regions for: - Geographic redundancy - Reduced latency for global users - Disaster recovery

### Supported Regions

Region	Location	Latency Zone
us-east-1	N. Virginia	Americas
us-west-2	Oregon	Americas
eu-west-1	Ireland	Europe
eu-central-1	Frankfurt	Europe

Region	Location	Latency Zone
ap-southeast-1	Singapore	Asia
ap-northeast-1	Tokyo	Asia

## Configuration

1. Go to **Multi-Region** tab
2. Select primary region
3. Add secondary regions
4. Configure replication:
  - **Database:** Aurora Global Database
  - **Storage:** S3 Cross-Region Replication
  - **API:** Route53 latency-based routing

## Failover

Automatic failover when: - Primary region health check fails - Manual failover triggered - Scheduled maintenance

## 14. Security & Compliance

### Security Tab

Configure security features:

Feature	Description	Default
<b>WAF</b>	Web Application Firewall	On (Starter+)
<b>GuardDuty</b>	Threat detection	On (Starter+)
<b>Shield</b>	DDoS protection	Standard
<b>VPC Flow Logs</b>	Network monitoring	On

### Compliance Tab

**HIPAA Compliance** Enable for healthcare data: - PHI encryption at rest and in transit - Audit logging for all data access - BAA documentation - Access controls

**SOC2 Compliance** Enable for enterprise: - Comprehensive audit trails - Access reviews - Incident response procedures - Vendor management

**GDPR Compliance** Enable for EU data: - Data subject access requests - Right to erasure - Data portability - Consent management

### Compliance Reports

Generate compliance reports:

1. Go to **Compliance** tab
2. Select report type
3. Choose date range
4. Click **Generate**
5. Download PDF or JSON

---

## 15. Cost Management

### Costs Tab

View and manage AWS costs:

#### Cost Overview

January 2026

Month-to-Date: \$1,234.56  
 Projected: \$2,100.00  
 Budget: \$2,500.00

84%

#### Cost Breakdown

Aurora PostgreSQL	\$450.00	36%
Lambda	\$280.00	23%
SageMaker	\$200.00	16%
S3 Storage	\$120.00	10%
CloudFront	\$100.00	8%
Other	\$84.56	7%

### Cost Optimization

The deployer includes automatic cost optimization:

Feature	Savings	Description
<b>Thermal Management</b>	30-70%	Scale down idle models
<b>Semantic Cache</b>	20-40%	Cache repeated queries
<b>Model Routing</b>	40-60%	Route to cheaper models when appropriate
<b>Reserved Capacity</b>	30-50%	Pre-purchase compute capacity

### Budget Alerts

Set up budget alerts:



1. Go to **Costs** tab
  2. Click **Set Budget**
  3. Enter monthly budget amount
  4. Configure alert thresholds (50%, 75%, 90%, 100%)
  5. Add notification emails
- 

## 16. Monitoring

### Monitoring Tab

Real-time monitoring dashboard:

#### System Health

API Latency	45ms	Healthy
Database	12ms	Healthy
Lambda Cold Starts	2.3%	Healthy
Error Rate	0.01%	Healthy

#### Request Volume (Last 24h)

12am      6am      12pm      6pm      12am

### Health Checks

Automatic health checks run every 60 seconds:

Check	Description	Threshold
<b>API Gateway</b>	Endpoint availability	99.9%
<b>Lambda</b>	Function execution	<5s p99
<b>Database</b>	Connection pool	<90% utilized
<b>Storage</b>	S3 availability	99.99%

### Alerts

Configure alerts for: - Error rate spikes - Latency increases - Resource exhaustion - Security events

---

## 17. Snapshots & Rollbacks

### Snapshots Tab

View and manage deployment snapshots:

#### Deployment Snapshots

snap-2026-01-24-pre-update  
Created: Jan 24, 2026 6:00 AM    Size: 2.3 GB  
Version: 5.52.16    Reason: Pre-update backup  
[Restore] [Download] [Delete]

snap-2026-01-20-manual  
Created: Jan 20, 2026 3:00 PM    Size: 2.1 GB  
Version: 5.45.0    Reason: Manual backup  
[Restore] [Download] [Delete]

### Creating Snapshots

Snapshots are created automatically: - Before every update deployment - Before rollbacks - On a scheduled basis (configurable)

Manual snapshots: 1. Click **Create Snapshot** 2. Enter description 3. Choose components to include 4. Click **Create**

### Rollback Process

1. Go to **Snapshots** tab
  2. Select snapshot to restore
  3. Click **Restore**
  4. Confirm the rollback
  5. Monitor restoration progress
- 

## 18. Package Management

### Packages Tab

Manage deployment packages:

#### Deployment Packages

radiant-5.52.17-stable.tar.gz	Current
Channel: Stable    Size: 45.2 MB	Downloaded: Jan 24

```
radiant-5.52.16-stable.tar.gz
Channel: Stable    Size: 44.8 MB    Downloaded: Jan 20

radiant-5.53.0-beta.tar.gz
Channel: Beta      Size: 46.1 MB    Downloaded: Jan 23
```

## Release Channels

Channel	Description	Stability
<b>Stable</b>	Production-ready releases	Highest
<b>Beta</b>	Pre-release testing	Medium
<b>Canary</b>	Experimental features	Low

## Package Operations

- **Download:** Get latest package from channel
  - **Verify:** Check package integrity
  - **Inspect:** View package contents
  - **Delete:** Remove old packages
- 

## 19. Settings

### General Settings

Setting	Description	Default
<b>Theme</b>	Light/Dark/System	System
<b>Notifications</b>	Desktop notifications	On
<b>Auto-Update</b>	Check for updates	On
<b>Telemetry</b>	Anonymous usage data	Off

### Credentials Settings

Manage 1Password integration and AWS credentials.

### Features Settings

Configure feature flags (see Section 10).

### AI Assistant Settings

Setting	Description	Default
<b>Enabled</b>	Use AI for assistance	On
<b>Model</b>	AI model to use	GPT-4o
<b>Voice Input</b>	Enable voice commands	Off

## Timeout Settings

Operation	Default	Range
<b>Deployment</b>	30 min	10-60 min
<b>Health Check</b>	30 sec	10-120 sec
<b>API Calls</b>	60 sec	10-300 sec

## Storage Settings

Setting	Description	Default
<b>Cache Location</b>	Package cache	~/Library/Caches/RadiantDeployer
<b>Max Cache Size</b>	Maximum cache	5 GB
<b>Log Retention</b>	Keep logs for	30 days

## Advanced Settings

Setting	Description	Default
<b>Debug Mode</b>	Verbose logging	Off
<b>Dry Run</b>	Simulate deployments	Off
<b>Parallel Stacks</b>	Concurrent deployments	3

## 20. AI Assistant

### Overview

The built-in AI Assistant helps with: - Deployment planning - Troubleshooting - Cost optimization  
- Configuration recommendations

### Activation

Press **+ Shift + A** or click the sparkles icon in the toolbar.

### Example Queries

```
"What's the best tier for 500 users?"
"Why is my deployment failing?"
"How can I reduce costs?"
"Explain the Cortex memory system"
"Generate a compliance report for SOC2"
```

## Voice Commands

Enable voice input in Settings → AI Assistant:

1. Click the microphone icon
  2. Speak your command
  3. Review and confirm
- 

## 21. Troubleshooting

### Common Issues

**1Password Not Detected** **Symptom:** “1Password CLI not found” error

**Solution:**

```
# Install CLI
brew install 1password-cli

# Enable integration in 1Password app
# Settings → Developer → Integrate with 1Password CLI

# Test
op signin
```

**Deployment Stuck** **Symptom:** Deployment hangs at a specific stack

**Solution:** 1. Check CloudFormation console for detailed error 2. Review deployment logs in the app 3. Check AWS service quotas 4. Ensure IAM permissions are correct

**DNS Validation Failing** **Symptom:** SSL certificate stuck in “Pending Validation”

**Solution:** 1. Verify CNAME records are correct 2. Wait up to 30 minutes for DNS propagation 3. Use dig to verify records: `bash dig _acme-challenge.yourdomain.com CNAME`

**Health Check Failures** **Symptom:** Applications showing “Unhealthy”

**Solution:** 1. Check CloudWatch logs for errors 2. Verify Lambda functions are not timing out 3. Check database connectivity 4. Review security group rules

### Getting Help

1. **Documentation:** Press `+` `?` for contextual help
  2. **AI Assistant:** Ask the built-in assistant
  3. **Logs:** Export logs from Settings → Storage → Export Logs
  4. **Support:** Contact [support@radiant.ai](mailto:support@radiant.ai)
-

## 22. Keyboard Shortcuts

### Global

Shortcut	Action
+ ,	Open Settings
+ <b>R</b>	Refresh
+ <b>N</b>	New Deployment
+ <b>Shift</b> + <b>A</b>	AI Assistant
+ <b>?</b>	Help
+ <b>Q</b>	Quit

### Navigation

Shortcut	Action
+ <b>1</b>	Dashboard
+ <b>2</b>	Apps
+ <b>3</b>	Deploy
+ <b>4</b>	Instances
+ <b>5</b>	Settings

### Deployment

Shortcut	Action
+ <b>D</b>	Start Deployment
+ <b>.</b>	Cancel Deployment
+ <b>L</b>	View Logs

## 23. Glossary

Term	Definition
<b>Aurora</b>	AWS managed PostgreSQL database service
<b>CDK</b>	AWS Cloud Development Kit for infrastructure as code
<b>CloudFront</b>	AWS content delivery network (CDN)
<b>Cortex</b>	RADIANT's three-tier memory system
<b>Curator</b>	Knowledge graph curation application
<b>Ego System</b>	Zero-cost persistent AI identity system
<b>Lambda</b>	AWS serverless compute service
<b>Multi-AZ</b>	Multiple availability zones for high availability
<b>SageMaker</b>	AWS machine learning service for self-hosted models
<b>Think Tank</b>	RADIANT's consumer AI chat application
<b>Thermal State</b>	Model readiness level (HOT/WARM/COLD/OFF)

Term	Definition
<b>Tier</b>	Infrastructure size level (SEED to ENTERPRISE)
<b>WAF</b>	Web Application Firewall

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## Document Information

Field	Value
<b>Version</b>	5.52.17
<b>Last Updated</b>	January 24, 2026
<b>Author</b>	RADIANT Team
<b>Status</b>	Published

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