Take Control of Your APIs using Red Hat 3scale Management Platform

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“Software is eating the world”


“APIs eating software”

- Steven Wilmott - Founder and CEO, 3scale Inc. (2013)
API and API Management Value

- Mobile & IOT Support
- Customer Ecosystem
- Partner Ecosystem
- Content & Transaction Channel
- APIs as a Business
- Internal Agility
Creating & exposing APIs is the tip of the iceberg

- Metering and Billing
- Security & Authentication
- Documentation Portal
- Scalability & Policies
- Monitoring
- Version Control
- Lifecycle Management
- Provisioning & Alerts
- Testing
Building an API Strategy with Red Hat 3scale
The API Management Architecture
Flexible Distributed Control

Modular
No single point of failure
Cloud access
Hybrid Architecture
Highly scalable
Red Hat 3scale Hybrid-Cloud Model
The API Management Deployment Model
Red Hat 3scale API Gateway

On premise traffic control, cloud management benefits

➢ Scalability
➢ High Performance, Low latency
➢ Privacy & Security
➢ Control
➢ Flexibility

Developer Apps

Mobile Apps

API Gateway

Your API Back-end

Real time Admin Console

Infrastructure

Sync / Authorize*

Branded Developer Portal

Developer Apps

Development RS

Developers
JBoss Fuse & OpenShift Integration
The API Management Stack
Security & Access Control

Access control

How do you manage who gets access to your API? Can you establish different levels of access for different types of users? Can you control how different applications interact with your API?

Access control features are essential to making sure you determine exactly who uses your API, how it is used, and how much they can use it. We make it easy to centrally set up and manage policy and application plans for all your APIs on one platform.

Security

It goes without saying that if you’re planning to open an API, security needs to be carefully considered from the start. Whether your API is public, private, or internal, with 3scale you can choose the authentication type most appropriate to your needs. We offer a range of authentication patterns and credentials to choose from, including unique API keys and OAuth tokens.
Your API Security

Multiple authentication mechanisms

- API Key
- App ID / App Key
- OAuth 2.0

Can be combined with IP / Domain referrer whitelisting

- Authenticate traffic
- Restrict by policy
- Drop unwelcome calls
- Protect backend services
- Generate overage alerts
- Impose rate limits
API Contracts, Throttling & Rate Limits

- Allow/restrict access to your API endpoints along with rate limits
- Rate-limit account, user and end-point level

**API Services**
- END POINT A
- END POINT B

**Rate Limits**
- X CALLS / MINUTES
- Y CALLS / DAY

**Pricing**
- FREE
- $X PER MONTH
- $Y PER CALL

Applications:
- Application #1 → INTERNAL TEAMS
- Application #2 → STRATEGIC PARTNERS
- Application #3 → DEVELOPERS
Gain and share API program insights

Monitor and set alerts on traffic flow. Provide partners and developers with reports on their traffic with a user dashboard designed for them. Analyze your API traffic through detailed traffic analytics by account, application, or service, and share performance insights across the organization with crisp, clear reporting.

High-level data at your fingertips

The Dashboard, part of the Admin Portal, gives you quick, centrally located visibility into any traffic and customer engagement opportunities or issues with your APIs. It is available now on all 3scale API Management Platform plans, from free through enterprise.
Developer & User Experience - Onboarding

Developer Portal

One of the best ways to improve the performance and success of your API is to create an amazing developer experience. We provide a state of the art CMS making it super easy to create your own custom domain portal to manage developer interactions and increase API adoption. It's simple to set up, so you can quickly start promoting your API, sign up developers and give them access to their API keys.
Developer & User Experience - Documentation

API Catalog & Getting Started Guide

ActiveDocs - API Swagger Tool
Packaging, Billing & Payments

MULTIPLE PRICING RULES
- ONE TIME PAYMENT
- FIXED RECURRING MONTHLY FEE
- VARIABLE RECURRING MONTHLY FEE
- COST PER UNIT
- TIERED PRICING

BILLING CYCLES
- INVOICES ISSUES ON A MONTHLY BASIS
- 2 BILLING OPTIONS:
  - PREPAID (FIXED FEES CHARGED BEGINNING OF MONTH, VARIABLE FEES CHARGED END OF MONTH)
  - POSTPAID (ALL FEES CHARGED AT THE END OF THE MONTH)

NO CREDIT CARD DETAILS STORED ON 3SCALE INFRASTRUCTURE

PRE-INTEGRATED PAYMENT GATEWAYS

stripe
Braintree
Authorize.Net
ogone
adyen
Stronger Together

The Red Hat 3scale API Management
Take Full control of Your APIs

Proven customer success
Self service accessible platform
But Enterprise grade service
700+ global customers

Flexible Distributed Architecture
Hybrid Deployment Model
Supports billions of API transactions
Superior latency & performance benchmarks

Future proof
Flexibility and scalability are built in
Most cost effective solution in the market
apis @ red

- Market-leading, full-stack API management platform
- Comprehensive coverage of API Economy use cases from API development through management
- API governance for mobile channels with Red Hat Mobile Application Platform
- OpenShift integration brings API management to containerized applications and microservices architectures
- Proven combination with Red Hat customers
Full control of your API’s

Visibility
- Analytics
- App Tracking
- User Tracking
- Traffic Alerts
- Engagement
- Developer Support

Control
- Security
- Key Management
- Rate Limiting
- Policy Enforcement
- App & User Management
- Provisioning

Flexibility/scalability
- Distributed
- Multi-Department
- Multi-Environment
- Highly Scalable
- Powerful APIs
- Webhooks
Broad and Deep Customer Base
Improving Schiphol’s airport passenger experience with Red Hat JBoss Fuse and 3scale API Management Integration of information and services into an Airport Service Bus via Red Hat JBoss Fuse & OpenShift

API access control, usage policies, analytics/reporting, developer portal, and interactive API documentation via 3scale API Management

Goals achieved:

- Facilitates mobile apps to improve customer journey
- Provides comprehensive, high-quality airport information
- Improves effective information sharing with
Powering 750+ APIs

Partner Ecosystem - eHealth

Providing tools to research healthcare through an efficient partner ecosystem, built around APIs to power their Insurance Marketplace

Agility and Platform - Dow Jones

Larger News Corp deal with multiple units. Internal data systems available to external parties
Thank You!
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Thank You!