FINOS Open Development Platform
Vision on the future

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Red Hat
IT IS NOT JUST CODE; IT IS CULTURE

- Collaboration
- Transparency (both access and the ability to act)
- Shared problems are solved faster
- Working together creates necessary standardization
THE WORLD’S LEADING PROVIDER OF OPEN SOURCE, ENTERPRISE I.T. SOLUTIONS

MORE THAN 90% of the FORTUNE 500 use RED HAT PRODUCTS & SOLUTIONS*

~11,900 EMPLOYEES

S&P 500 COMPANY

THE FIRST $2.4 BILLION OPEN SOURCE COMPANY IN THE WORLD

95 OFFICES

35 COUNTRIES

NYSE RHT
ODP ON HYBRID CLOUD
FinServ/FinTech Cloud Native Application Ecosystem

Kubernetes Orchestration - OCI - Microservices - APIs - Secure Catalogs

High Productivity Turnkey Developer Experience

SYMPHONY (ReST API)  SYMPHONY (Extension API)  SYMPHONY (Integration webhooks)  PLEXUS Upcoming  ADD YOUR OPEN API  ADD YOUR OPEN DATA

GitHub  Jenkins  Travis CI  WhiteSource  <DevSecOps Tool Chain>  <Middleware>

Red Hat Enterprise Linux  Red Hat Virtualization  Red Hat OpenStack Platform  Google  Amazon  Microsoft Azure  Other Public Clouds
SOFTWARE SUPPLY-CHAIN SECURITY

From FinTech POVs to FSI Production

- Trusted code repos
- body of evidence

- ODP OPENSHIFT “SOFTWARE FACTORY”

- CM
- CS
FSI OPEN SOURCE ARCHITECTURE

Beyond Code sharing: Open Blueprints for FSI Cloud Native Applications
FinServ Open Source Architectures :: Risk
Pricing and Risk Analytics on ODP/OpenShift
Intelligent Applications: AI/ML on ODP/OpenShift

FinServ Open Source Architectures :: AI/ML framework

- Compute
- Persistent
- Data
- Container
- UI

- events
- databases
- file, obj. store

- transform
- transform
- transform
- models

- developer UI
- federate
- train

- archive
- reporting
- management

- web + mobile
FinServ Open Source Architectures :: AI/ML framework

Alleviating the workflow personae challenge
Zero-Downtime Trading Application

Matthew Ward
Technical Marketing Manager - Partner Solutions
Red Hat

Chuck Danielsson
Community Manager
OpenFin
How is Open Source changing business?

It requires an evolution in:

**Applications**
New ways of developing, delivering, and integrating applications

**Infrastructure**
Modernize existing and build new cloud-based infrastructure

**Process**
More agile process across both IT and the business
Technology Evolution

Applications
- Monolith

Infrastructures
- Datacenter

Processes
- Waterfall
Technology Evolution

Applications
- Monolith
- N-Tier

Infrastructures
- Datacenter
- Hosted

Processes
- Waterfall
- Agile
Technology Evolution

Applications
- Monolith
- N-Tier
- Microservices

Infrastructures
- Datacenter
- Hosted
- Hybrid

Processes
- Waterfall
- Agile
- DevOps

FINOS ODP
Containers Transform

- Enable efficiency and automation for microservices, but also support traditional applications
- Enable faster and more consistent deployments from Development to Production
- Enable application portability across 4 infrastructure footprints: Physical, Virtual, Private & Public Cloud
Desktop Apps

Capital Markets Desktop

- Desktop real-estate is limited
- Changing user behavior is difficult
- Low adoption of new tools

Mobile Experience?

- Mobile delivers a different experience
- Specialised, powerful applications
- Interoperability
Desktop Applications On OpenFin

- Build desktop application using web technologies like HTML5
- Deploy and iterate like a standard web application
- Interoperate between Applications
  - Independent Applications
  - Cross stack
The Deployment Problem
Build Triggered

Feature Branch

UAT

Prod

New Build!

App

ODP

Build Triggered

New Container

Deploy
Critical features for Innovation

- Self-Service
- Multi-language
- Automation
- Collaboration
- Seamless
- Standards-based
- Web-scale
- Open Source
- Enterprise Grade
- Secure
THANK YOU

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