MOBILE APP DEVELOPMENT

- Code and build applications for mobile devices (client-side and server-side)
- Full application lifecycle process from design to test and deployment and monitoring
- User interface (UI) design and development with a large variety of tools
- Backend integrations to enterprise systems or public web services
- App security and distribution
WHAT IS A MOBILE APPLICATION PLATFORM?

- Shared platform with services to develop and run mobile solutions
- Brings client-side and server-side together (dynamically auto-linked)
- Facilitate collaboration in launching mobile initiatives across enterprise
- Repository of services for reusability
- Offers templates and sample apps for reuse
- Centralized control of security & access
- Caching, persistence, authentication and data sync built-in services
- Application Lifecycle Management and reporting
RED HAT MOBILE APPLICATION PLATFORM

Enables Business Agility through mobile centric solutions

Accelerates the development of mobile projects by facilitating secure backend integration and collaborative app development in the cloud and on premise

- Developer choice of tools
- Powerful scalable architecture
- APIs, MBaaS and enterprise integration
- Enables DevOps
HOW TO USE RED HAT MOBILE APPLICATION PLATFORM
MOBILE PROJECTS ON RHMAP

- **Client Apps**
  - Native
  - Hybrid
  - Web Apps
  - For all platforms

- **Cloud App**
  - Business logic
  - Storage
  - Caching
  - Sync
  - Data parsing and microservices

- **MBaaS Services**
  - Reusable services
  - Built once use for any client or cloud app
CREATE RHMAP PROJECTS

- Go to Projects
- + New Projects
- Choose a template project
- RHMAP builds your template client app and cloud app
- You can create more apps or focus on you client and cloud side
BUILD YOUR CLIENT APP ON RHMAP

● Once you created your project and have your client and cloud app you can test the client app

● Go to App Details and use the App Preview

● Edit your code and add functionality locally or online

● Ready to build? Local build or with the Build Farm

● Go to Build, select the Client Binary select build type and click Build

● Binary will be then available for distribution and installation
IMPORT EXISTING MOBILE APPS

- Go to your project
- + Add Apps
- -> Import Existing App
- Choose the app type and name your app
- Import from public Git repo, zip file or bare repo and follow instructions
- Your app will now have a cloud app to call and is ready to take advantage of RHMAP features
DEPLOY THE CLOUD APP

- In Apps, Cloud Apps & Services open Cloud App
- Check the value on Cloud App Status
- Select environment for deploy (dev, test, live, etc.)
- If not deployed, click Deploy
- Review log file
- Also keeps deploy history
- Repeat every time you make changes to your cloud code
CREATE MBAAS SERVICES ON RHMAP

- Services & APIs section
- Provision MBAaaS Services/API
- Choose a Service Template or a blank new MBAaaS Service
- Add your node.js code
- Save and reuse your MBAaaS Service for any app or project
INTEGRATED IN PLATFORM GIT HOSTING

- Integrate with your own Git repos
- Each project in RHMAP has its own Git hosting and a Git repo per client app, cloud app and MBaaS Service
- Tag, branch management and Git cloning
- Git supports source code version control
- Git pull from RHMAP studio
RED HAT MOBILE APPLICATION
PLATFORM FEATURES REVIEW
APP DEVELOPMENT FEATURES

- Bring your own tools (Frameworks, libraries, IDEs, etc.)
- SDKs for Native, Hybrid and Web apps
- Build Farm cloud service to build client apps
- Git for Source Control Management
- All features available from Command Line Interface (fhc)
- Rapid Mobile App Development (RMAD) features with Forms Builder
- Credential Management
CORE MAP FEATURES

- Enterprise-grade platform features your app lifecycle management
- Core component of the platform now available on Hosted or self-managed Red Hat stack (Red Hat Enterprise Linux and Openshift Container Platform)
- Full Lifecycle Management features and git repos
- Analytics, Alerting and Unified Push Server
- Private app store
- Fine-grained platform user access
MOBILE BACKEND AS A SERVICE FEATURES

1. The server-side of your mobile app called cloud code or cloud app
2. Facilitate the creation of microservices (MBaaS Services) and catalog for reusability on multiple apps or multiple projects
3. Mobile specific features, APIs for:
   - Data Sync
   - Caching
   - Storage
   - Authentication
   - Notifications
   - Stats
ADVANTAGES OF SELF-MANAGED RHMAP 4.2

- Control your own platform and infrastructure
- Own storage of sensitive data and intellectual property (regulations)
- Better controlled network latency on private environments
- Full control over service levels, location and regulations
- Leverage existing infrastructure and resources
COMPETITIVE ADVANTAGE

- Architecture
  - Modular
  - Containers
- Node.js modules & reusable MBaaS Services
- Competitive technology advantage on evaluations
- Cloud Binary Build Service including any Cordova plugin
- Lifecycle Management, multi-environment support
- Drag-and-Drop Forms Apps builder
BENEFITS TO OUR CUSTOMERS

- Open and scalable Architecture for company-wide Mobile Projects
- Centralized security and access control
- Facilitates collaboration across distributed teams
- Bring your own tools reduce training costs and encourage innovation
- Fast prototyping with templates and Forms Builder
- Re-use of microservices to increase developer productivity
- Enables Digital Tranformation - agile app development and deployment