Deploying & Managing Your Open Source Integration Infrastructure Across Your Enterprise

Stan Lewis – Principal Software Engineer
James Strachan – Software Fellow
Agenda

- The need for Centralized Management
- Fuse Management Console?
- What features does Fuse Management Console provide?
- Demo
- Q and A
The Need for Centralized Management

- Deploying integration applications is HARD
- Deploying integration applications across an enterprise can be a nightmare
  - Having to deal with multiple machines & operating systems
  - Keeping configuration files synced across machines
  - Keeping track of what versions of whatever are running where
  - Upgrading applications and dependencies can be tricky
  - Managing applications e.g. starting, stopping, even monitoring

Fuse Management Console is designed to make this easier!
Fuse Management Console – Overview

- Leverages features provided by Fuse Fabric
- Provides centralized management of
  - Configuration
  - Containers
  - Application deployment
- Can manage containers either locally or in the cloud
- Facilitates deployment of applications
- Provides customized views for application services
Fuse Management Console – Some Definitions

- **Fuse Fabric** - enables centralized deployment, management, and configuration of Fuse Enterprise networks of containers
- **Fuse Application Bundles** - enables deployment of plain Maven projects – no OSGi knowledge required
- **Fabric Ensemble** - A group of servers that provide the functionality binding a fabric of containers together such as the registry
- **Fabric Server** – One member of the ensemble
- **Fabric Registry** – the service managing the configuration and runtime information for a fabric
- **Fabric Container** – an instance of Fuse ESB Enterprise that is deployed by Fuse Fabric
- **Fabric Agent** – the agent running in a Fabric Container that updates a container’s configuration and provisioning
Fuse Management Console – Configuration Overview

- Centralized configuration that is shared by all containers
- Container configuration is managed by creating “Profiles”
- A Profile has multiple aspects of configuration:
  - Features
  - Fuse Application Bundles*
  - OSGi Bundles
  - Feature repositories
  - OSGi ConfigAdmin properties
  - Settings for:
    - `config.properties` file*
    - `system.properties` file*
Profiles are hierarchical
A Profile can inherit from multiple parent Profiles
All Profiles exist in a “Version”
Creating a new Version will create a copy of the parent Version’s Profile set

Therefore when editing a Profile:
1. Create a new Version
2. Edit the Profile definition in the new Version
3. Migrate containers from the old Version to the new Version
Containers have a view of one version of the Profile set
Containers can be associated with multiple Profiles
It’s possible to migrate one or many container instances from one version to another
It’s also possible to roll back a container from a version to a previous version
Changes to a Profile that is associated with a container are deployed immediately!
Fuse Management Console – Container Management

- Push new container instances onto hosts via
  - SSH
  - JClouds
- Can also create and manage child container instances on existing containers
- Automatically discovers and presents views of JMX data
  - Fuse MQ Broker Instances
  - Camel Contexts and Routes
  - JVM metrics
  - OSGi bundles and services
- Can also stop, start and delete containers
Fuse Management Console – Deployment

- Fuse Management Console defines several Profiles out of the box; some examples:
  - mq – provides a features repository for Fuse MQ artifacts and configures a broker
  - camel – defines a features repository that makes features available for all Camel components
  - cxf – defines a features repository and some base features for CXF applications
  - karaf – defines a features repository for Karaf commands and features
  - esb – inherits from most of the above profiles to provide a similar environment to Fuse Enterprise 7
And now it’s...

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