

GlassFish Infrastructure – GF Lite

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What It's All About

- TBD (Probable) Items (An unordered list)
- Q + A
- Disclaimer: DRAFT, hence Vastly Incomplete
- Goal
 - Background for one-pagers/test-plans
 - Spur several discussions on admin alias

1 Pluggability

- Admin Console/Admin CLI to plug-in a Module
 - Excellent install experience - a must
 - File-system/UCR
 - Necessary configuration changes
 - Provide default configuration
- Unknowns
 - UCR integration
 - A Jar-file or an HK-2 module or an OSGi bundle?

2 Modularity

- Merge Configuration/Admin with Modules
 - Mostly internal re-organization
 - Split configuration interfaces
- Unknowns
 - Is it really needed?
 - See slide 6 for a counter-case

3 Configuration Enhancements - I

- Improved Configuration
 - Minified default domain.xml
 - Data-type based validation & Advanced, pluggable validation
 - Support for editing default-web.xml
 - Changed Grizzly configuration
 - Ability to have upgrade-aware config beans
 - Unknowns
 - default-web.xml support
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3 Configuration Enhancements - II

- Full Support for Tokens
 - A Novel Way to Implement *Config-only* Operations (Internal)
 - Generic create/delete/set/get/list *anywhere*
 - Dynamic Reconfiguration
 - List of changes *yet to be applied*
 - Incorporating *Restart Required* flag
 - Offline Configuration API
 - Unknowns
 - Offline configuration support is tricky, hard to get right
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3 Configuration Enhancements - Misc

- Introduce *Version* on Domain (no DTD!)
- Ability to Set Server Environment Variables
- Tree Locking for Multiple Administrator Case
 - See slide on security
- Unknowns
 - What to do with AMX? (See slide for Interfaces)
 - Logging configuration
 - References Vs. inheritance

4 Misc (Infrastructure)

- Remove Admin Port Confusion
 - Support Domain Restart on Admin Console
 - Launcher stays behind
 - JMX MBeanServer Integration
 - JMX Connector Integration
 - Launcher Provides THE Startup Command (as an asadmin command)
 - No com.sun.appserv MBeans
 - Support for Custom MBeans as a Module
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5 CLI

- Publish a List of Supported Commands
 - Carried over as-is, deprecated, removed, new
 - Develop Enhanced CLI Shell (Multi-mode)
 - Based on jline (jline.org)
 - Command completion and history
 - Support Syntax that Reflects
 - `asadmin [asadmin-options] command [command-options] [command-operands]`
 - Ability to persist end-points based on User (User Preferences)
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6 Domain Infrastructure

- Publish Domain's File Layout (not Install's)
- Domain Creation Procedure
 - Relates to security slide
 - Remove quirks
 - Deal with templates intelligently
- Usage Profiles
 - This is really challenging
 - Extract profile?

7 Admin Security

- Support Multiple Admin Users and Realms
 - No RBAC yet
 - All users are *identical*
 - Support JDBCRealm for Admin Users?
 - Formalize Anonymous Login
 - Make it work
 - Provide Admin Access Only on Secure?
 - Easy Certificate Installation Procedure?
 - Split Authorization Support?
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8 Interfaces

- Admin Console and CLI
- AMX?
- REST
 - Specify it *completely*
 - Uses adapter

9 Non-goals

- Clustering Management
 - Eliminates several other things
- Node Agent
- RBAC