

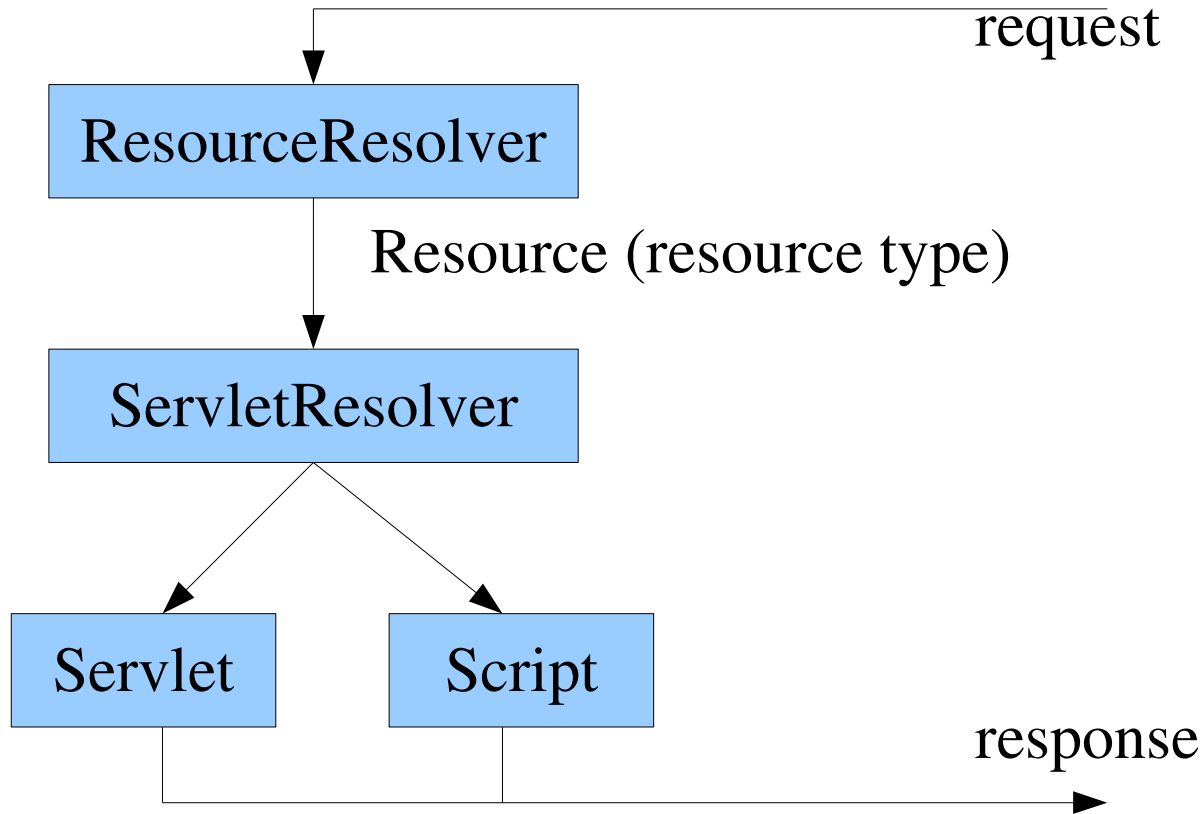
Apache Sling

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General Request Processing



Virtual Resource Tree

- Based on JCR Repository
- Integrates with mapped Resources
 - Resources from OSGi Bundles
 - Servlets and Servlet Filters registered as OSGi Services
- Unified access to Data from various sources
- Primary Target is the JCR Repository

URI Decomposition

`/content/page.print.a4.html`

Resource Path Selectors Extension



Servlet and Script Resolution

- Scripts and Servlets are Equal
 - Servlets registered as OSGi Services are mapped into the virtual Resource Tree
 - Scripts stored in the Repository
- Default Servlets (or Scripts)
 - Registerable
 - Fallback / Last Ressort



ScriptResolver

Path to Script built from ...

- Configured Path (/apps, /libs)
- Resource Type converted to path (nt/file)
- Selector String (print/a4)
- Request Method & MIME Type
 - GET --> Request URL Extension (html)
 - else --> Method Name (POST, PUT, ...)



ScriptResolver Example

- URI: /content/page.print.a4.html
- Resource: /content/page
- Resource Type: sample:page
- Script for GET:
 - /sling/scripts/sample/page/print/a4/html.*
- Script for POST:
 - /sling/scripts/sample/page/print/a4/POST.*



Facts

- Sling API
 - No Reference to JCR API
- Modular and Runtime Configurable
 - OSGi Framework
- Two Deployment
 - Standalone Java Application
 - Web Application



Standalone Java Application

- One single executable JAR file
- Small Launcher
- Starts OSGi Framework (Apache Felix)
- Uses Jetty in an OSGi Bundle



Web Application

- Extends Standalone Application
 - Replaces Command Line Support with a Servlet
- Uses a Bridge to connect Sling to the Servlet Container



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Questions



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One Last Word

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