Eclipse Virgo

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vmware®

Agenda

- What is Virgo?
- Externals
- Concepts
- How can I get started?
- Current Status

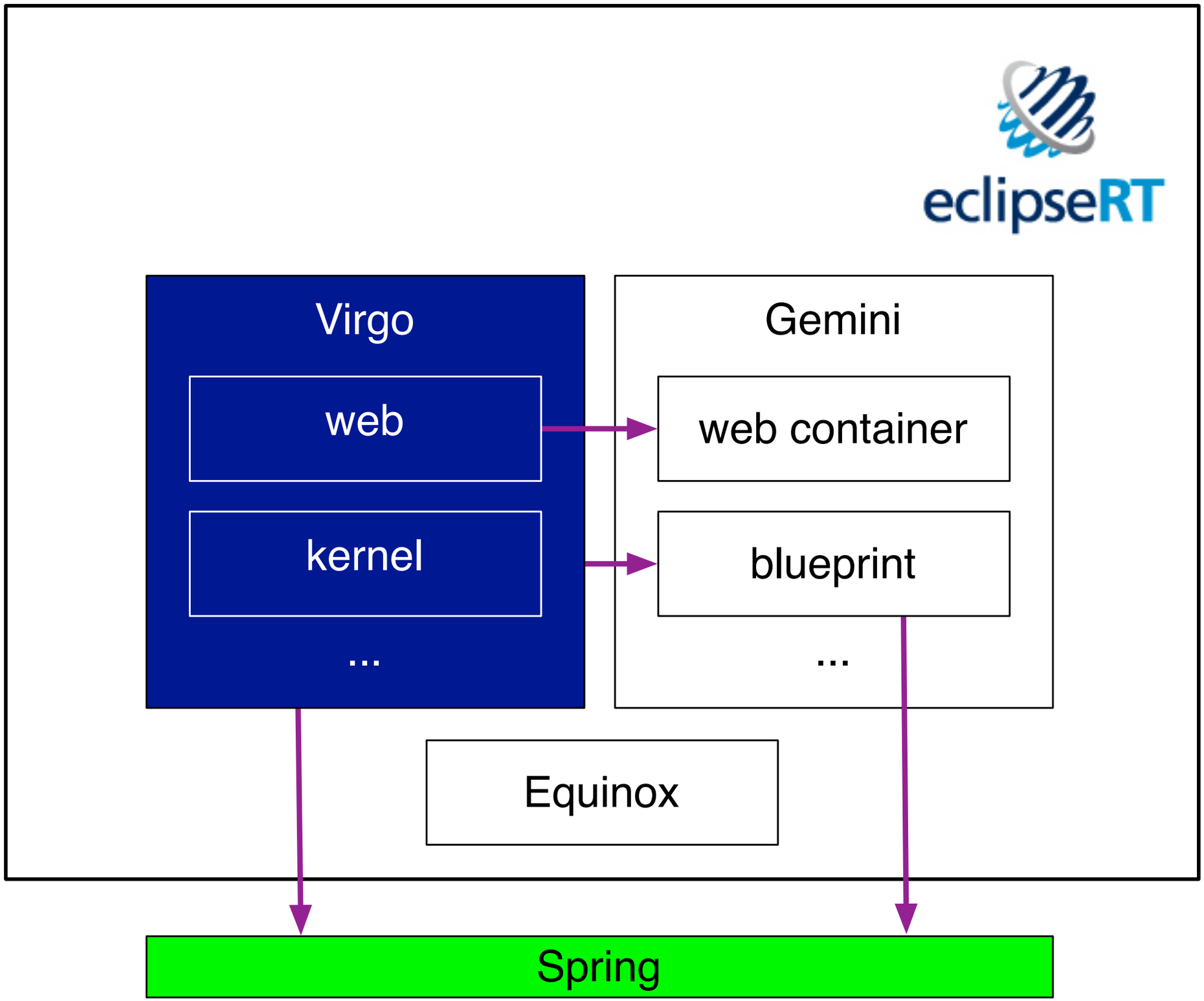
What is Virgo?

- "Dynamic Enterprise Application Platform"
- Based on SpringSource dm Server 2.0
  - Not to be confused with Spring DM
- Objectives:
  - Better OSGi platform
  - Migration of Java EE apps
  - Modular and extensible

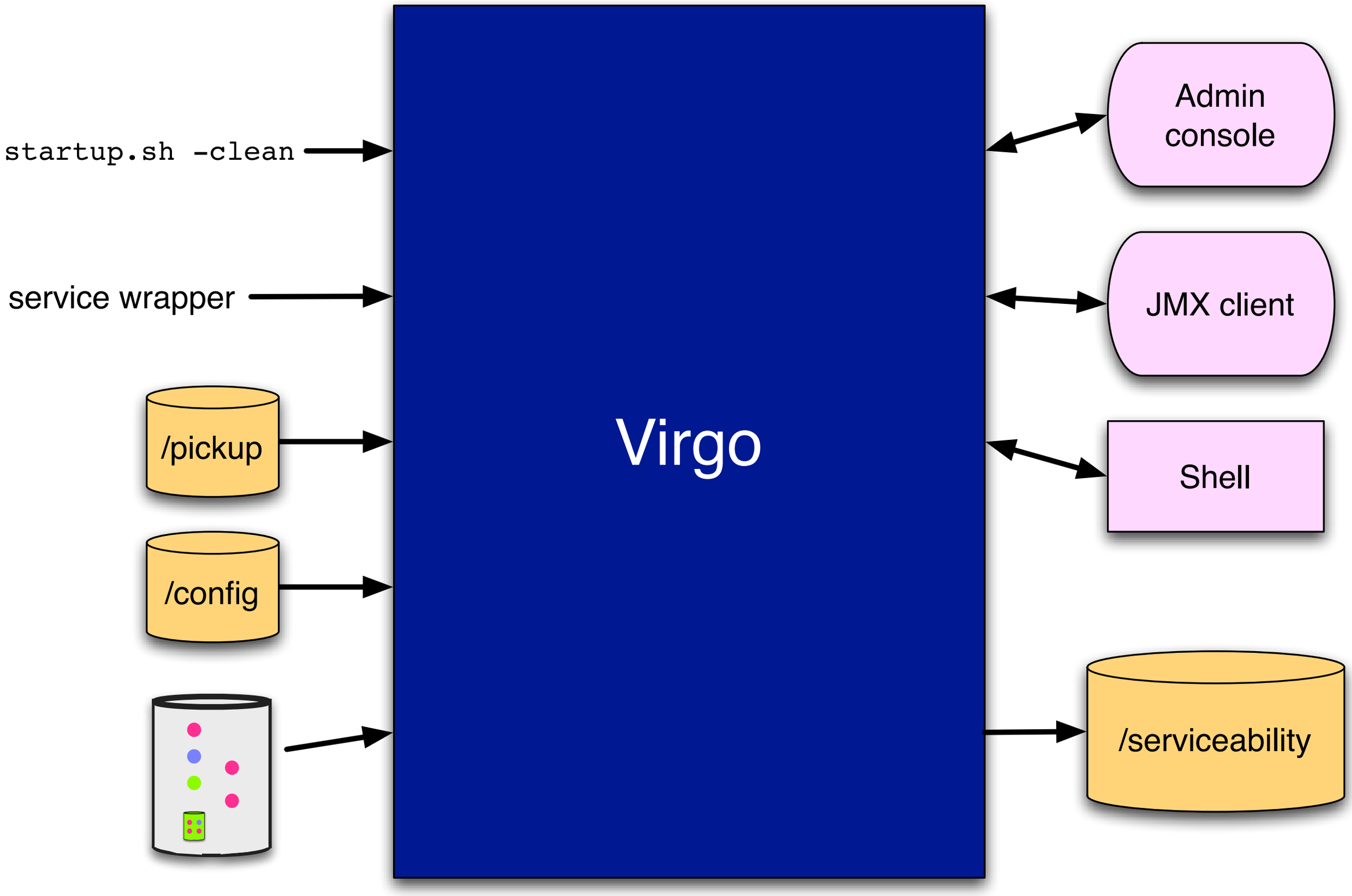
Problems Virgo Solves

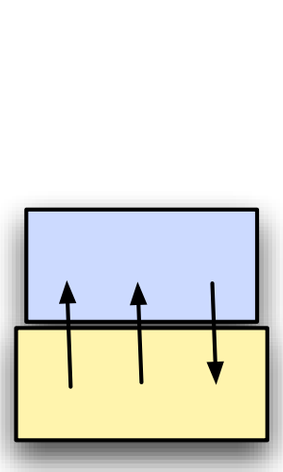
- Groups bundles into manageable units
- Enables the use of existing open source libraries
  - TCCL, LTW, implicit package use
- Provisions from repositories
- Extensive diagnostics
  - resolution failure, deadlock, delayed services

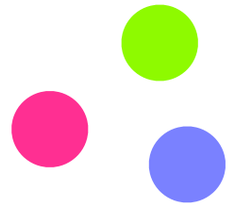
Virgo and EclipseRT



Virgo Externals



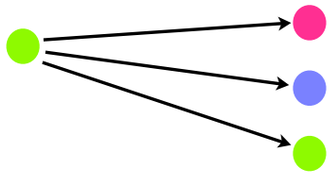




Artifacts

Regions

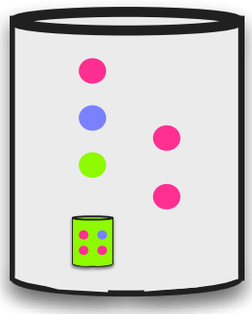
Virgo
Concepts

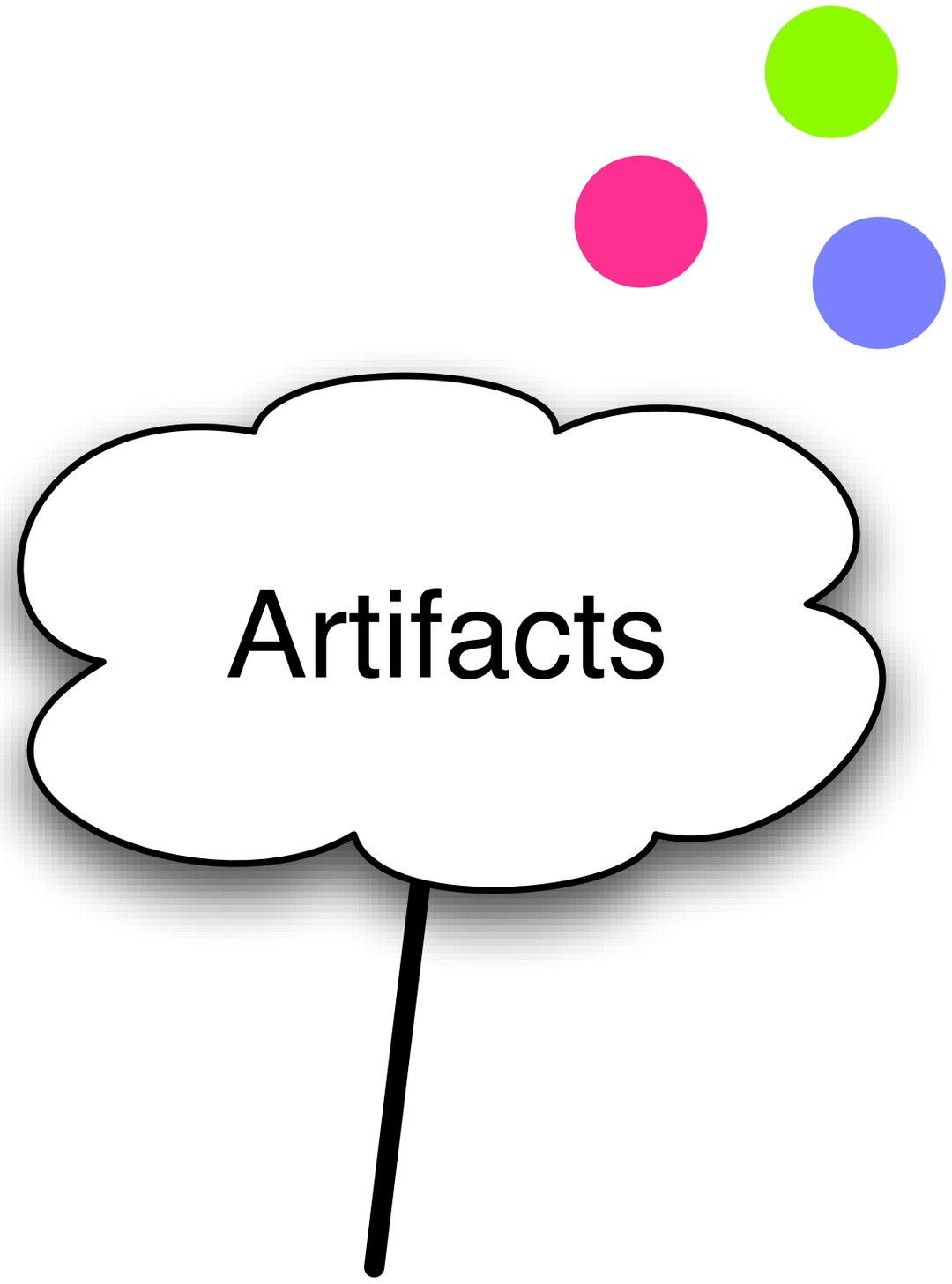


Plans

Pipelines

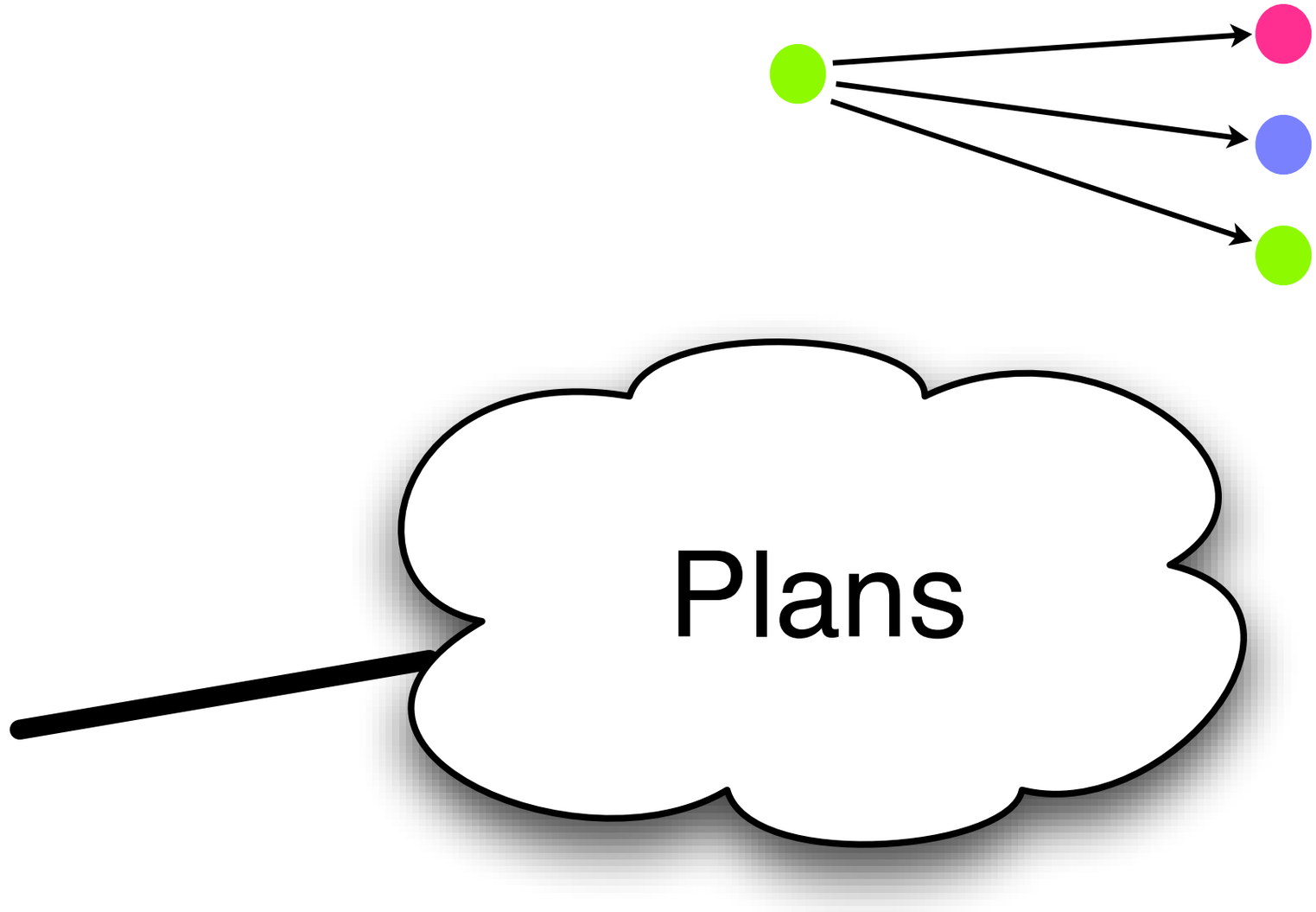
Repositories




Artifacts

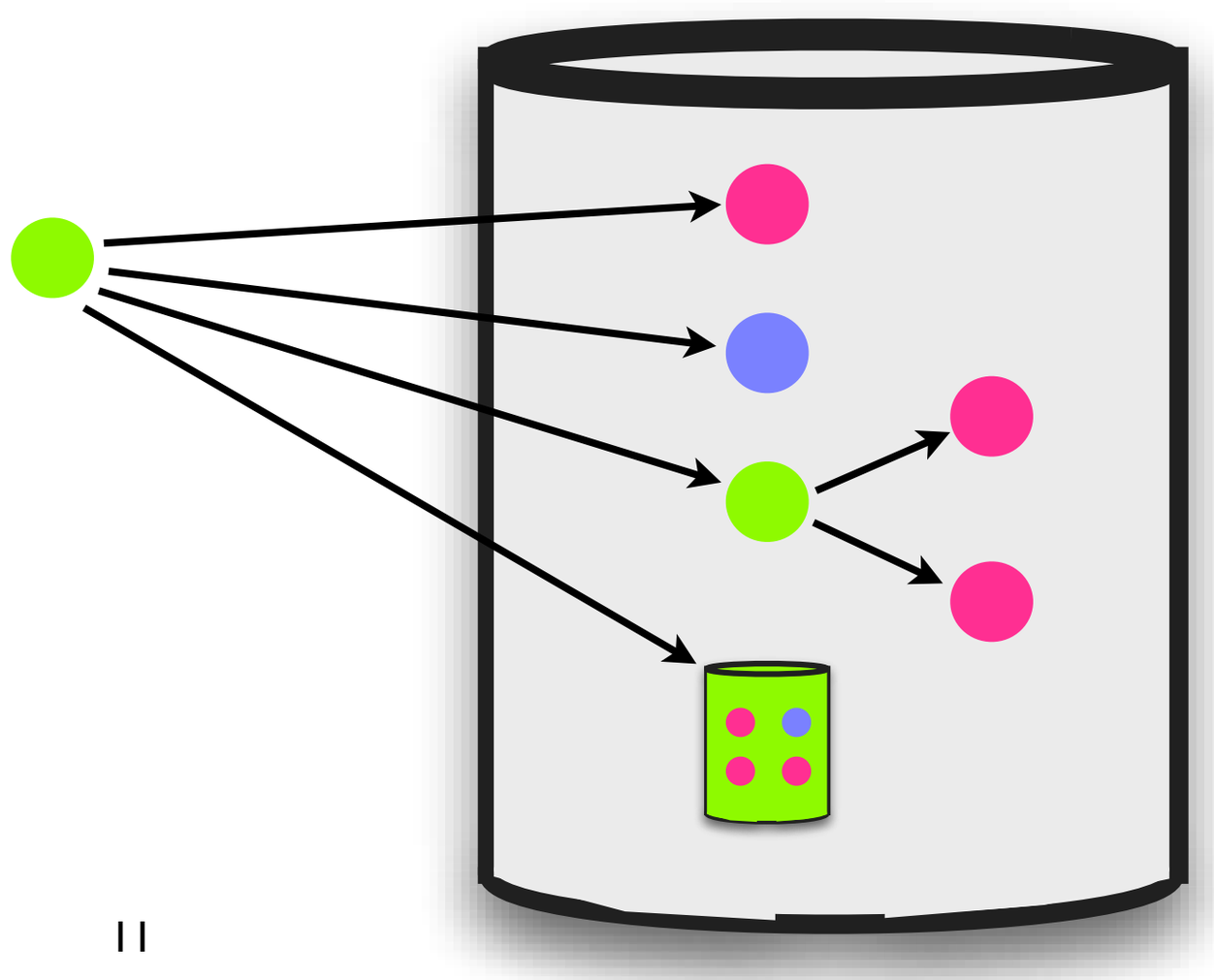
Artifacts

- Identified by type, name, version
- Types:
  - bundle - OSGi bundle
  - configuration - properties file
  - plan - list of artifacts
  - ...

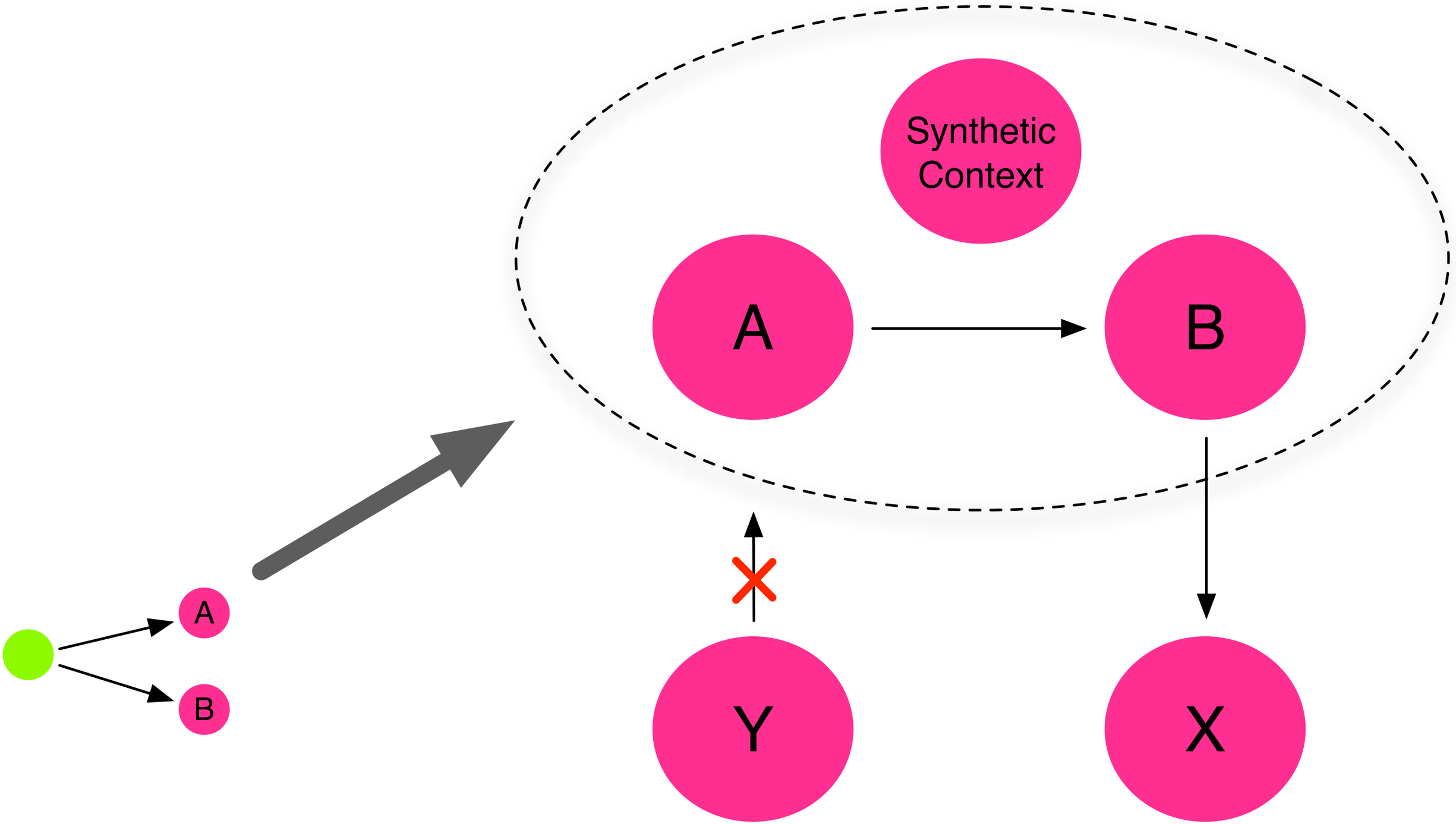

Plans

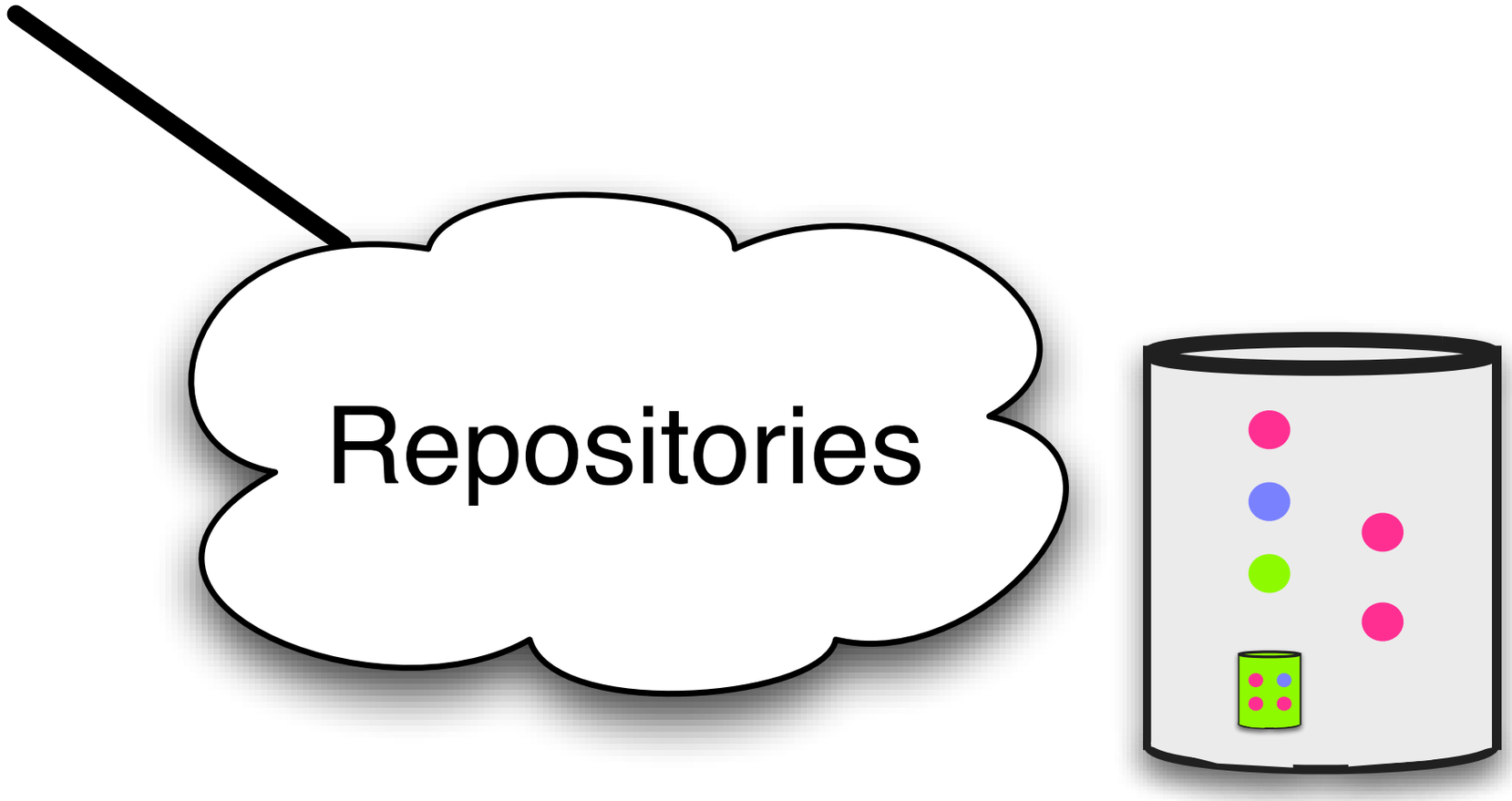
Plans

- XML
- List artifacts by type, name, version range
- Scoping
- Atomicity
- PARs
  - Contain artifacts
  - Scoped, atomic



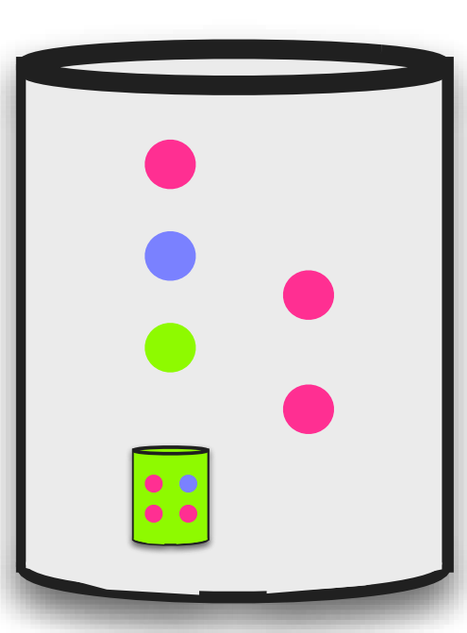
Scoping



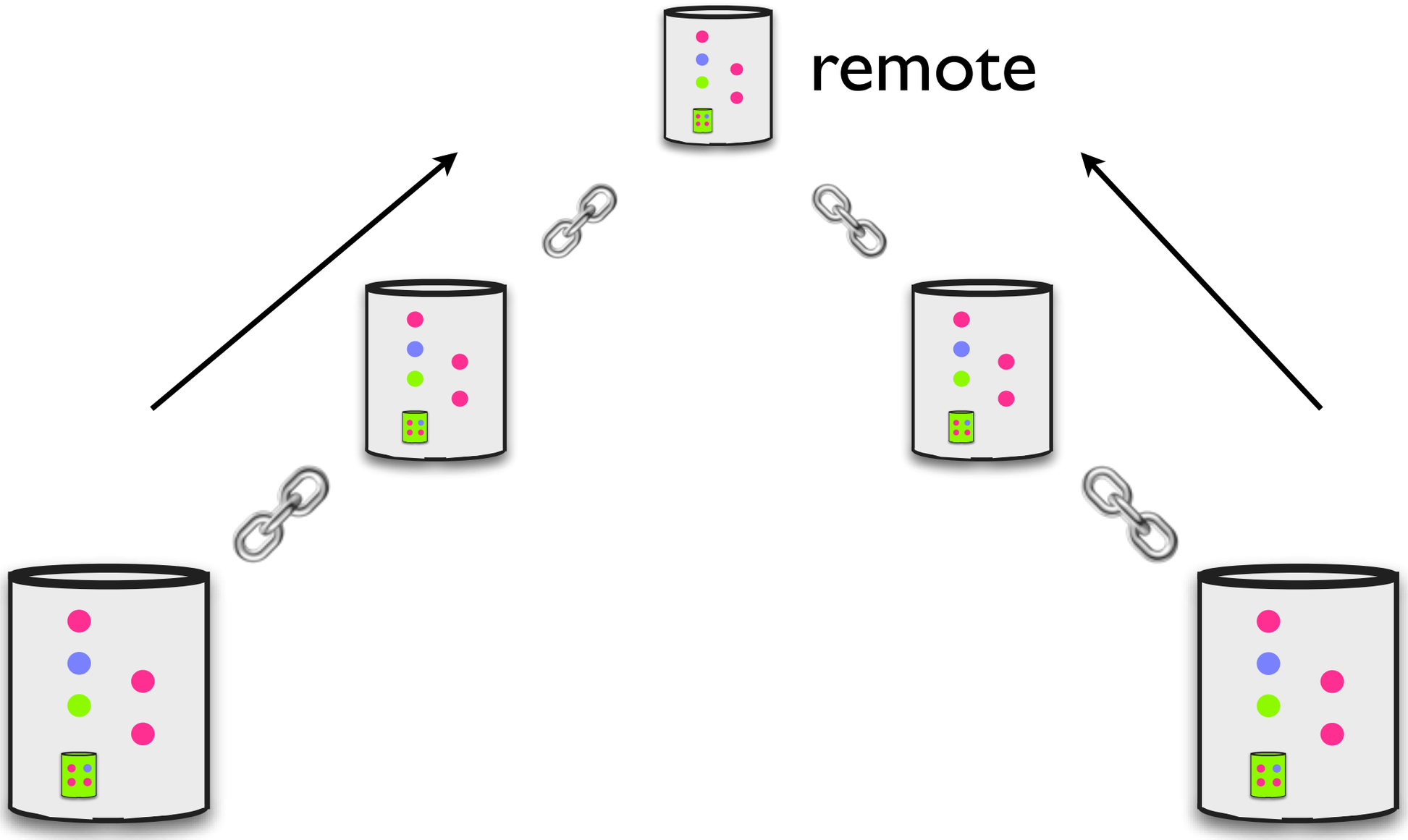

Repositories

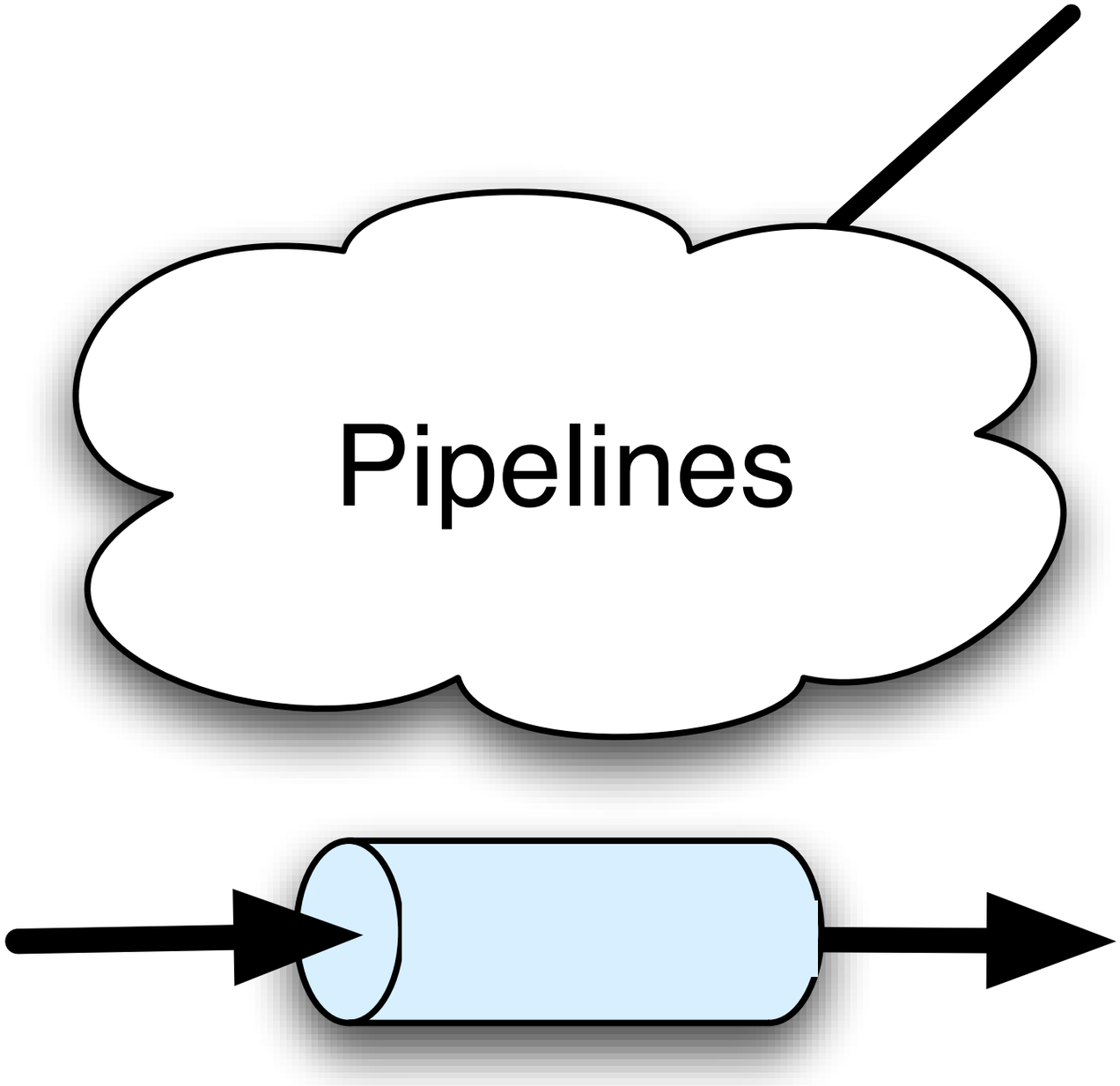
Repositories

- Artifacts indexed by type, name, version
- Supports queries e.g. by version range
- Repository types:
  - External
  - Watched
  - Remote
- Repositories may be chained

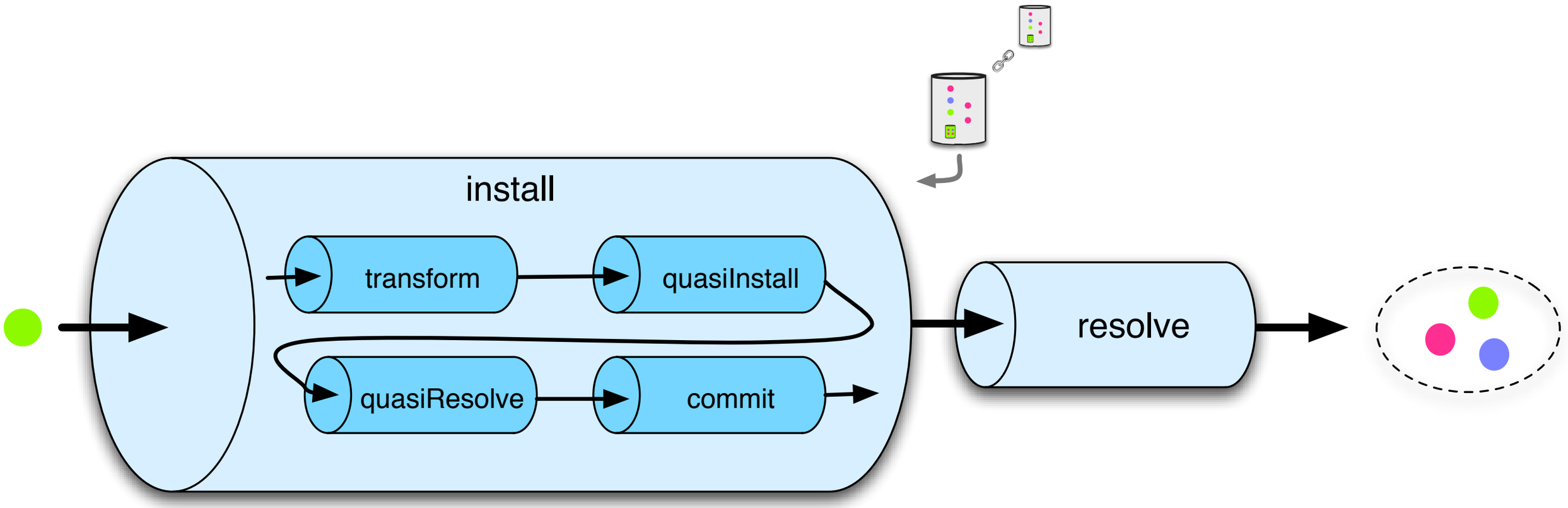


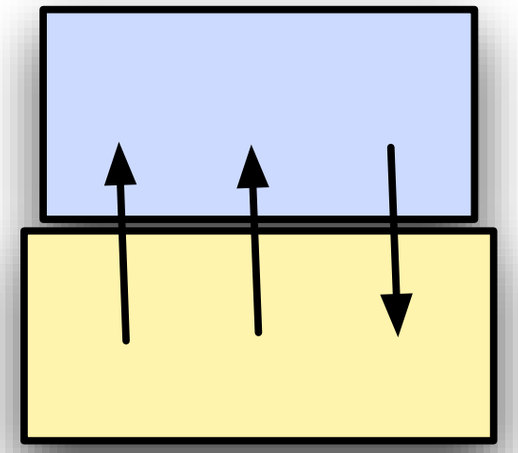
Repository Chaining




Pipelines

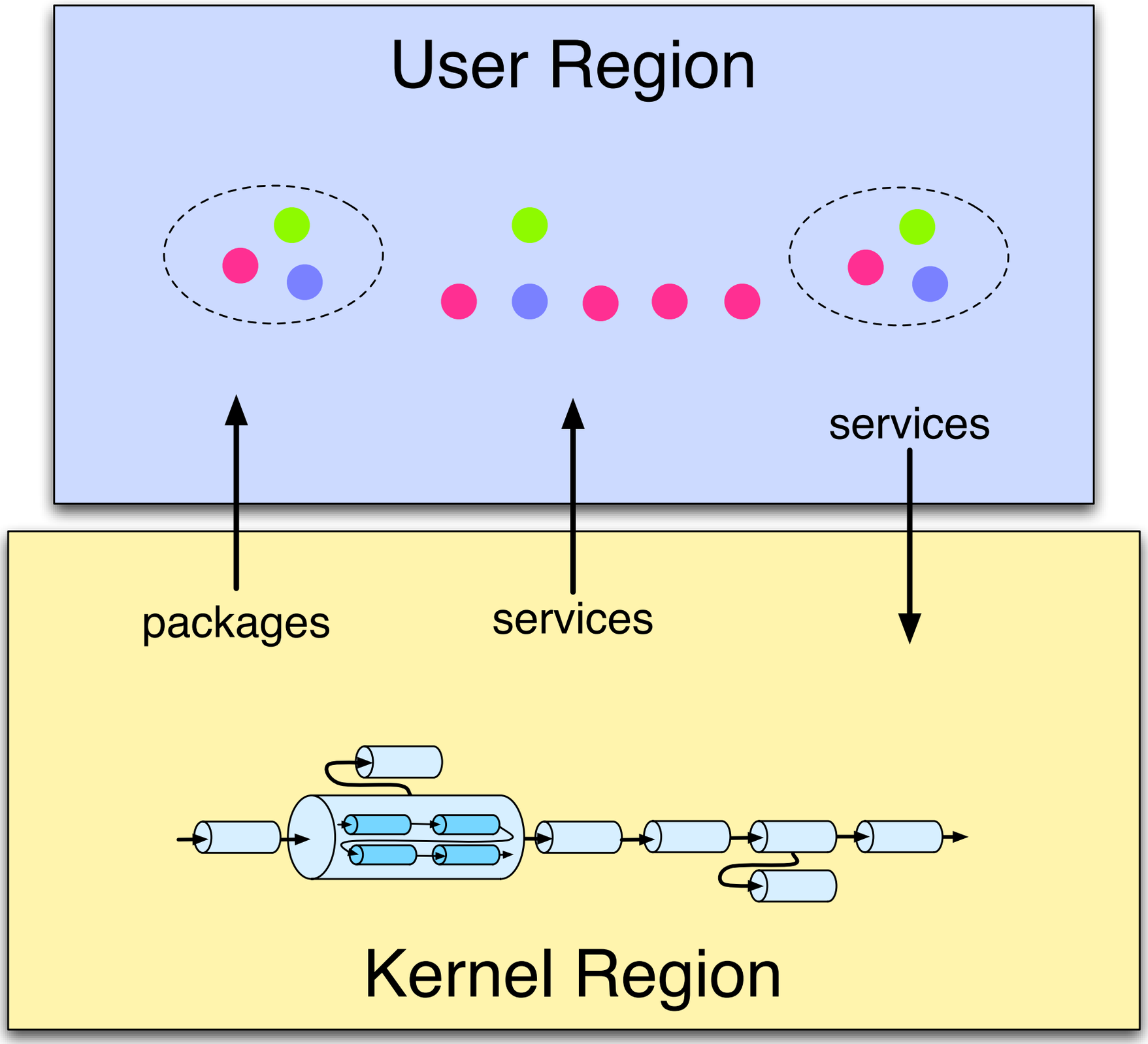
Pipelines


install
transform
quasiInstall
quasiResolve
commit
resolve



Regions

Regions



How can I get started?

Getting Started

- Pre-req: Java 6
- Download & unzip
- bin/startup.sh or bin\startup.bat
- drop WAR files or bundles into pickup dir

Then What?

- Read documentation
  - User Guide
  - Programmer Guide
  - Getting Started Guide
- Join the community
- http://wiki.eclipse.org/Virgo/Community

Roles

- Casual user
- Expert user
- Contributor
- Committer

Committer Skills

- Know or willing to learn:
  - Clean architecture & code
  - Unit and integration testing
  - Concurrency
  - (Deep) OSGi
  - git, ant, ivy, etc.

Work Areas

- Developer docs & wiki
- Jetty adapter
- Regions and nested frameworks
- p2 integration
- More server types
  - Integration, batch, ECF, ...

Current Status

- Renaming & relicensing complete
- IP scrutiny progressing well
- 6 out of 20 git repos available
- Baseline release is the goal

Further Information

- http://www.eclipse.org/virgo
- http://wiki.eclipse.org/Virgo/Community
- #VirgoRT
- http://www.springsource.org/dmserver
  - Download dm Server 2.0 and try it out