



# Eclipse Virgo

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vmware®

# Agenda

- What is Virgo?
- Externals
- Concepts
- How can I get involved?

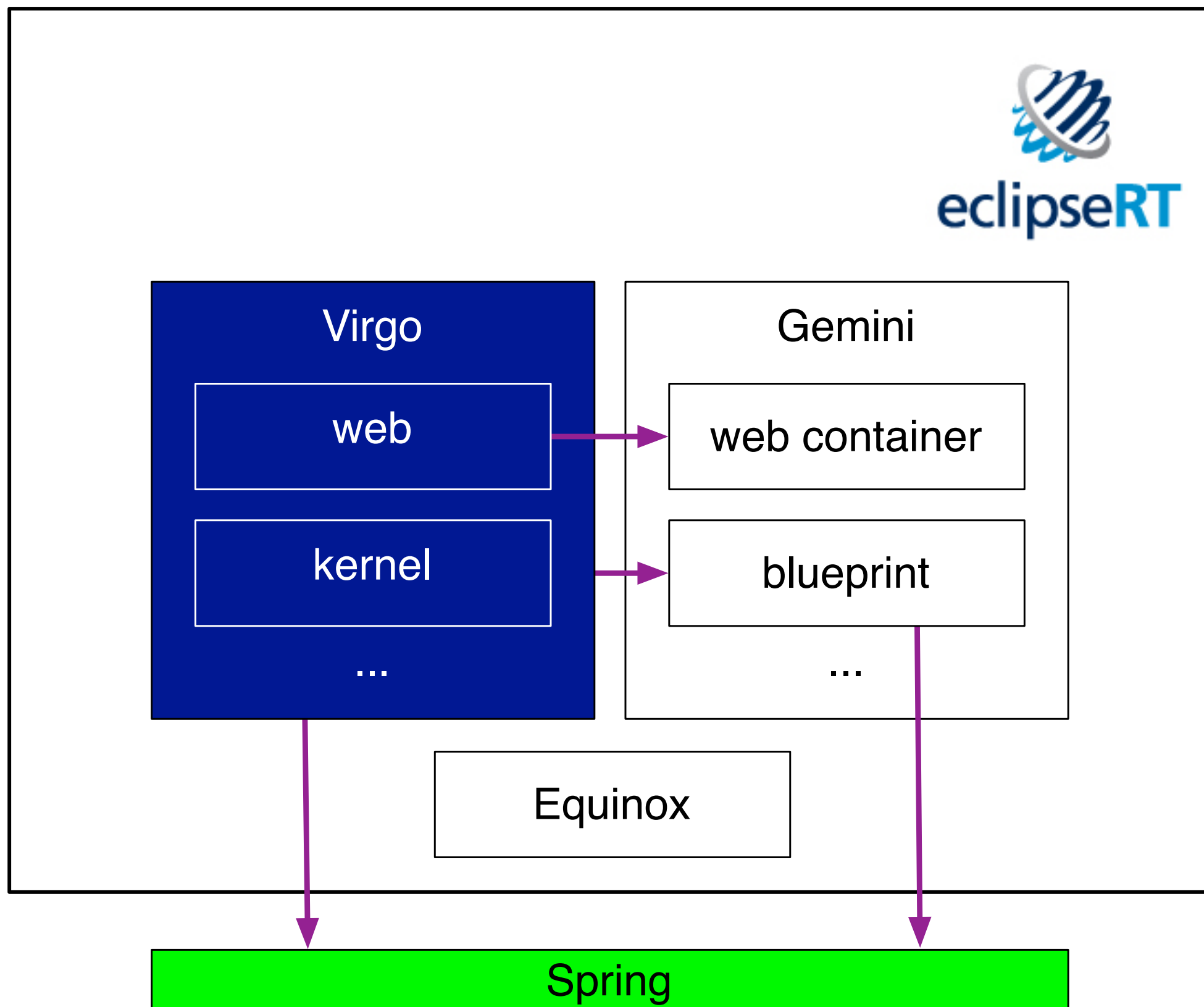
# What is Virgo?

- “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

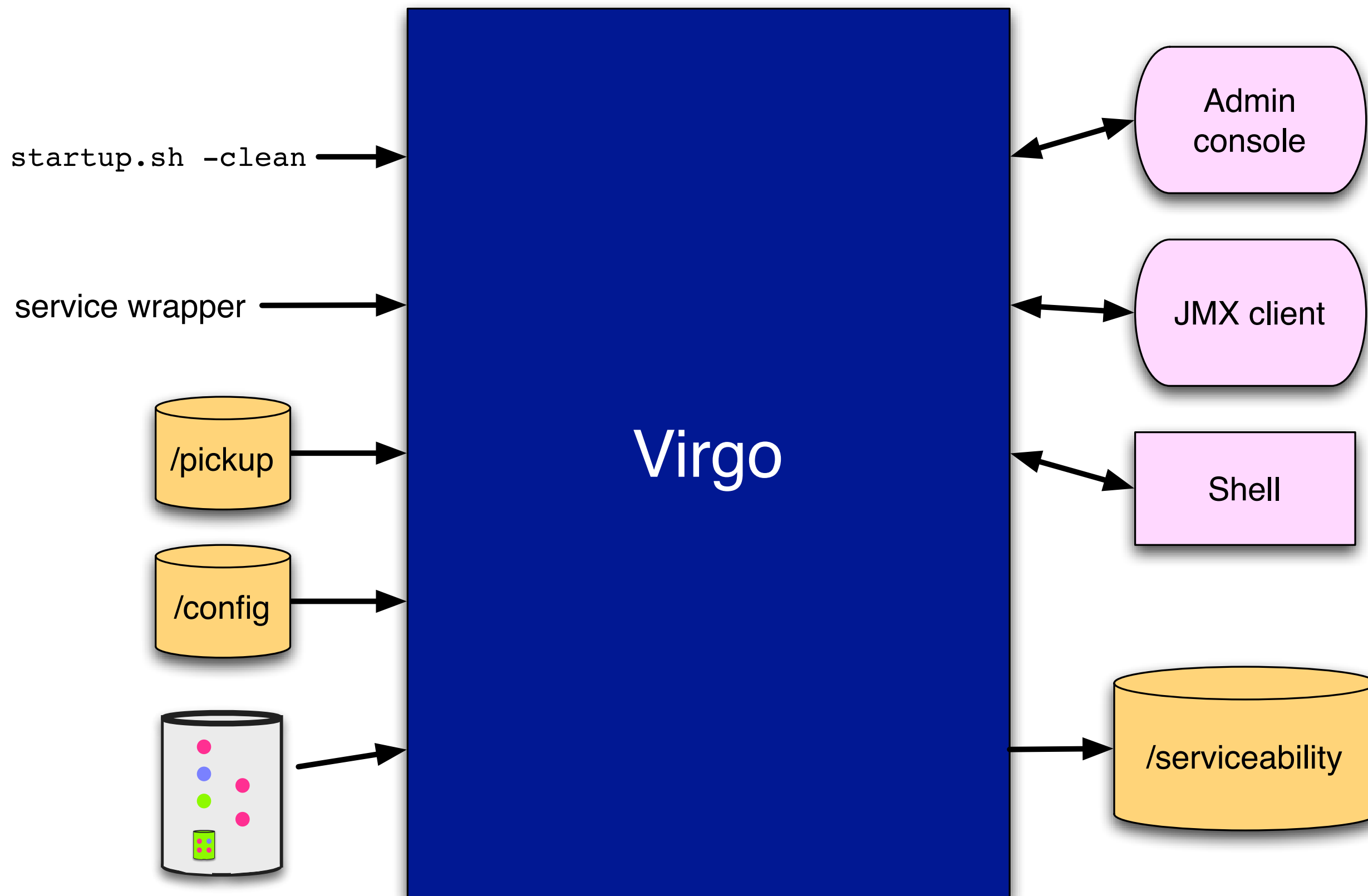
# Problems Virgo Solves

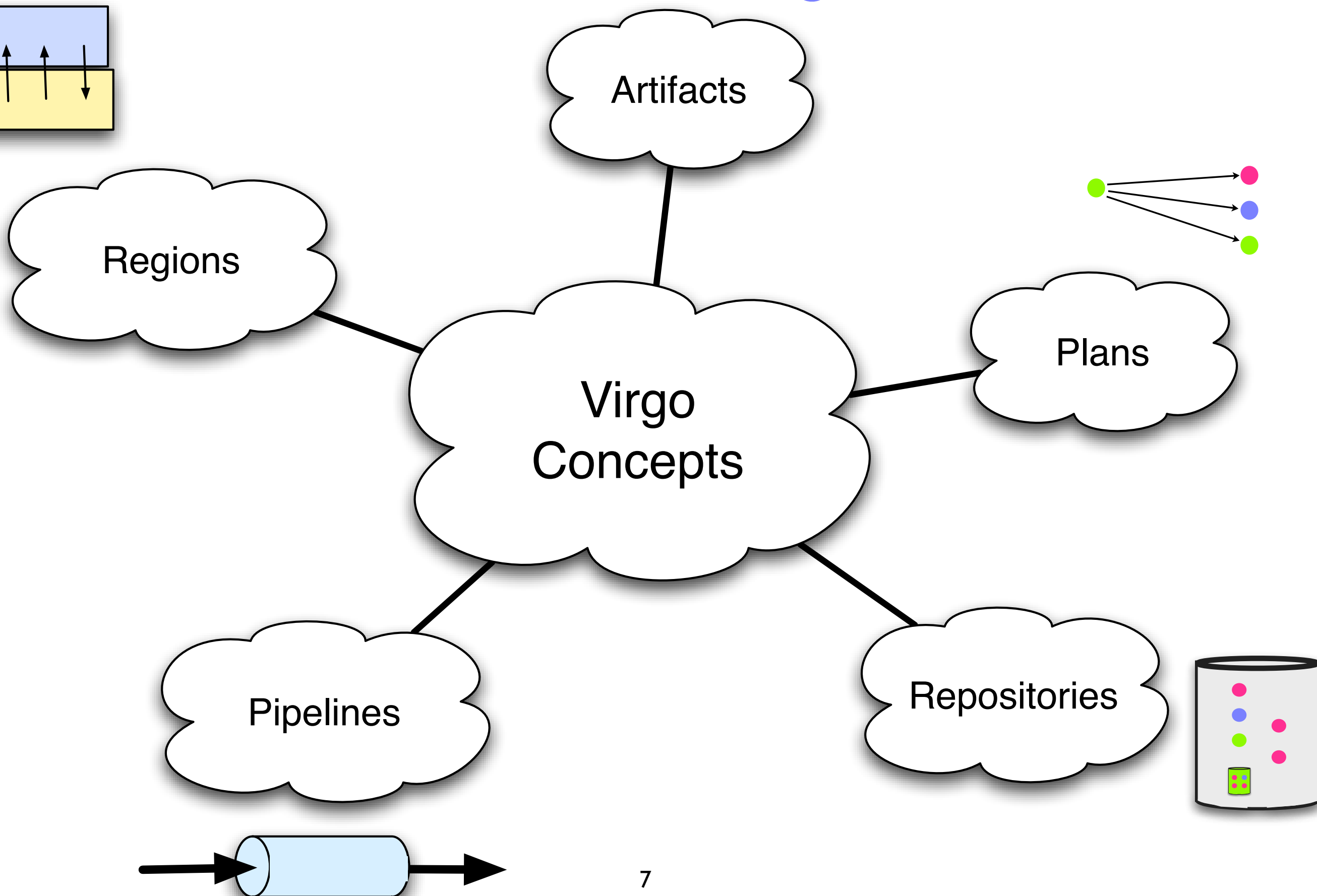
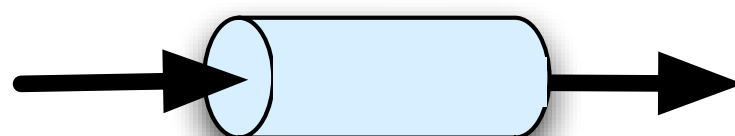
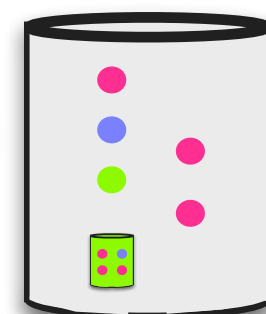
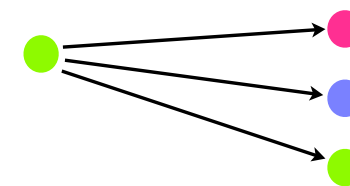
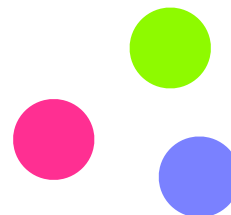
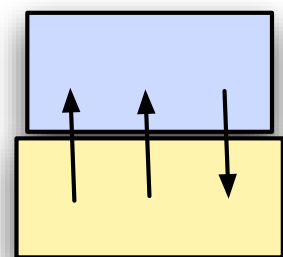
- Groups bundles into manageable units
  - Scoping, atomicity
- Enables existing open source libraries
  - TCCL, LTW, implicit package use
- Provisions from repositories
- Extensive diagnostics
  - resolution failure, deadlock, delayed services

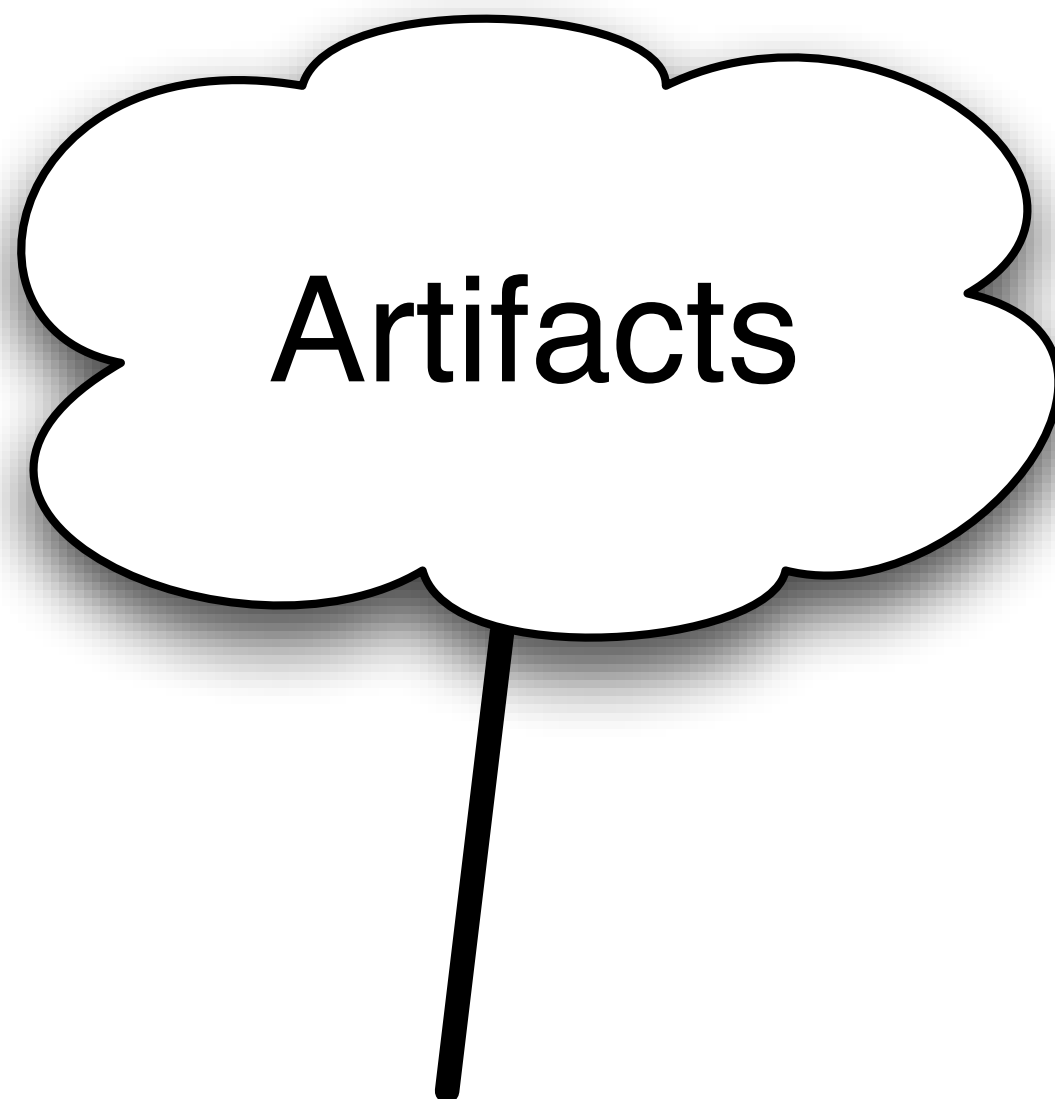
# Virgo and EclipseRT



# Virgo Externals





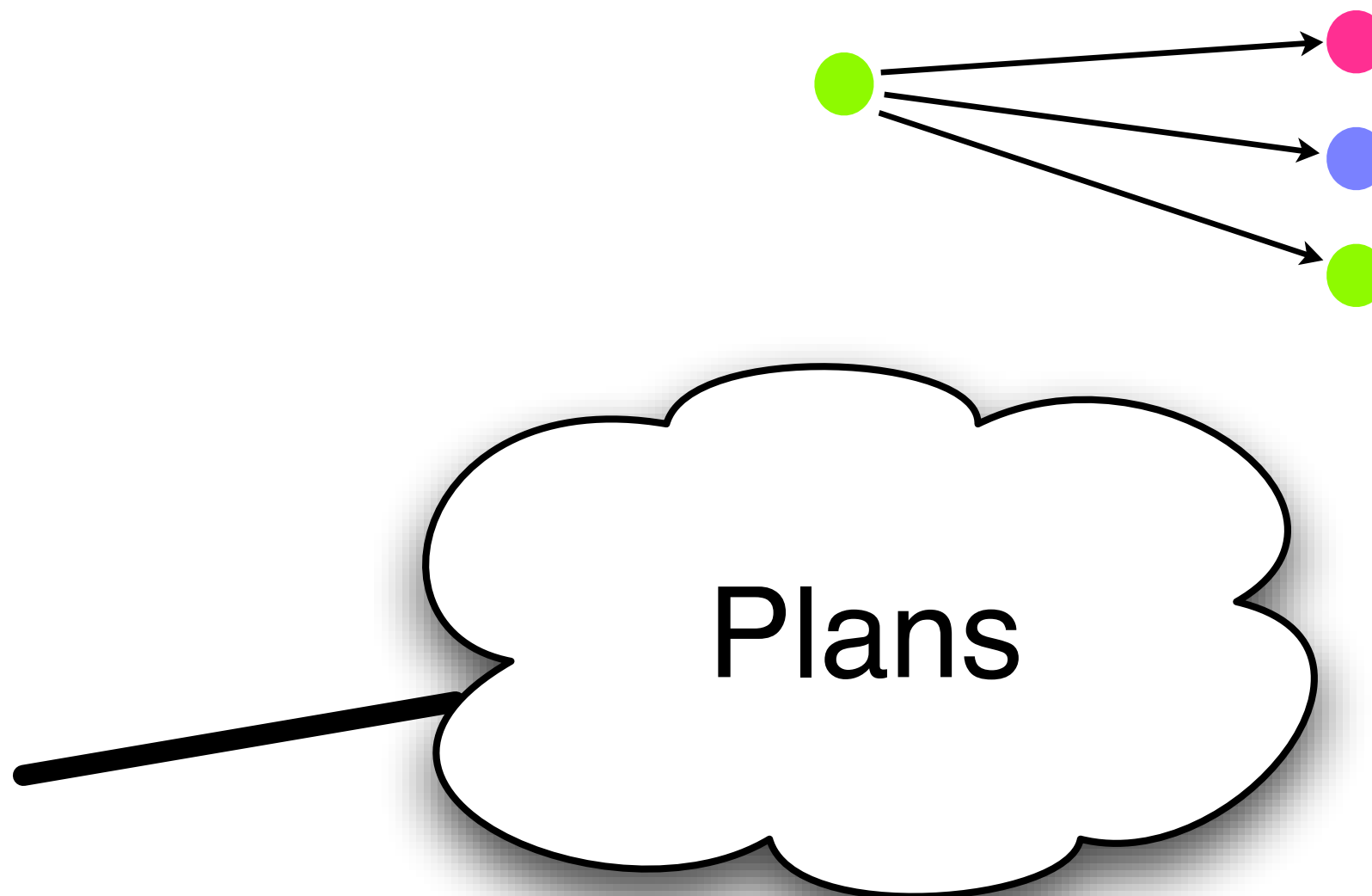




# Artifacts

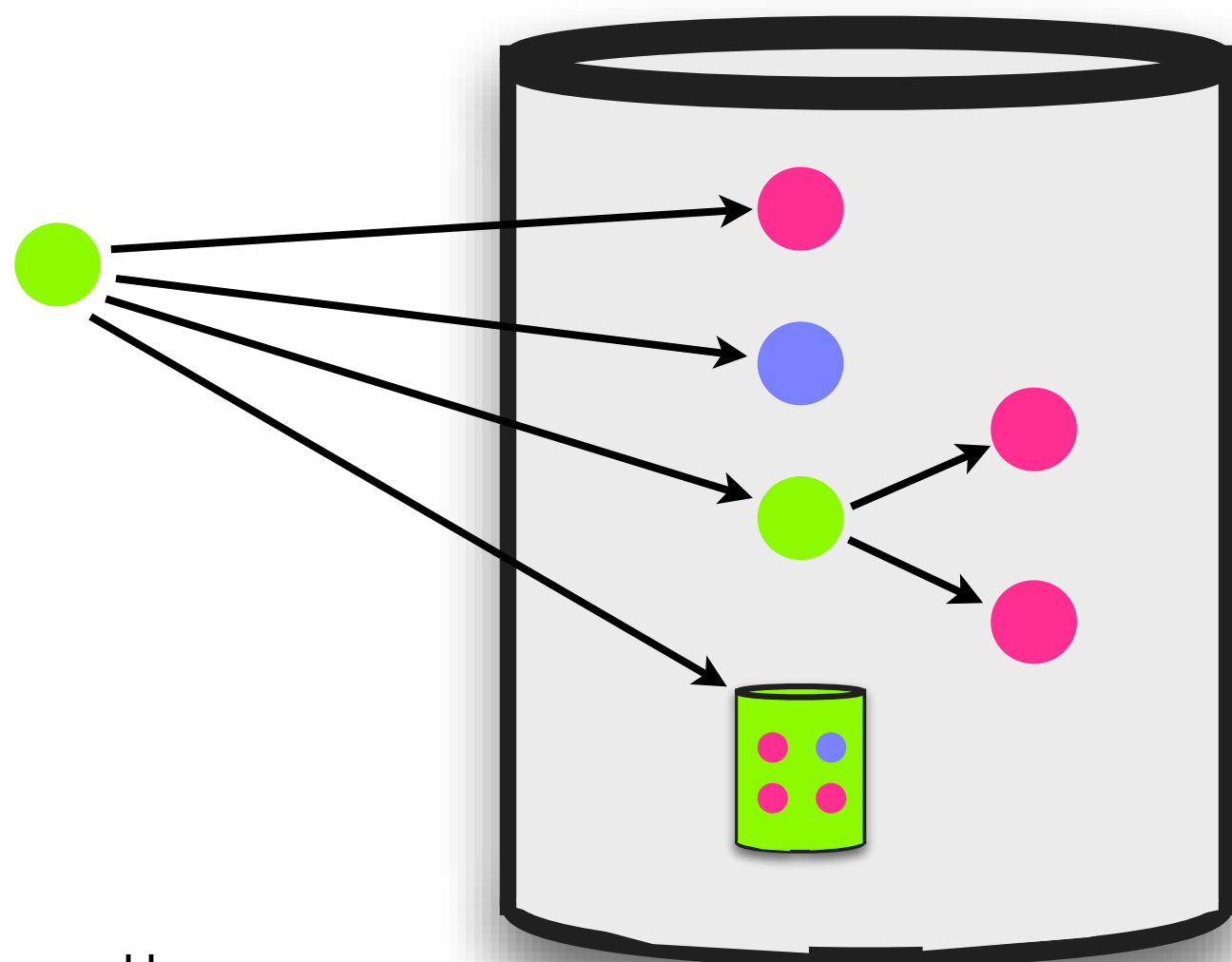
- Identified by type, name, version
- Types:
  - bundle - OSGi bundle
  - configuration - properties file
  - plan - list of artifacts
  - ...



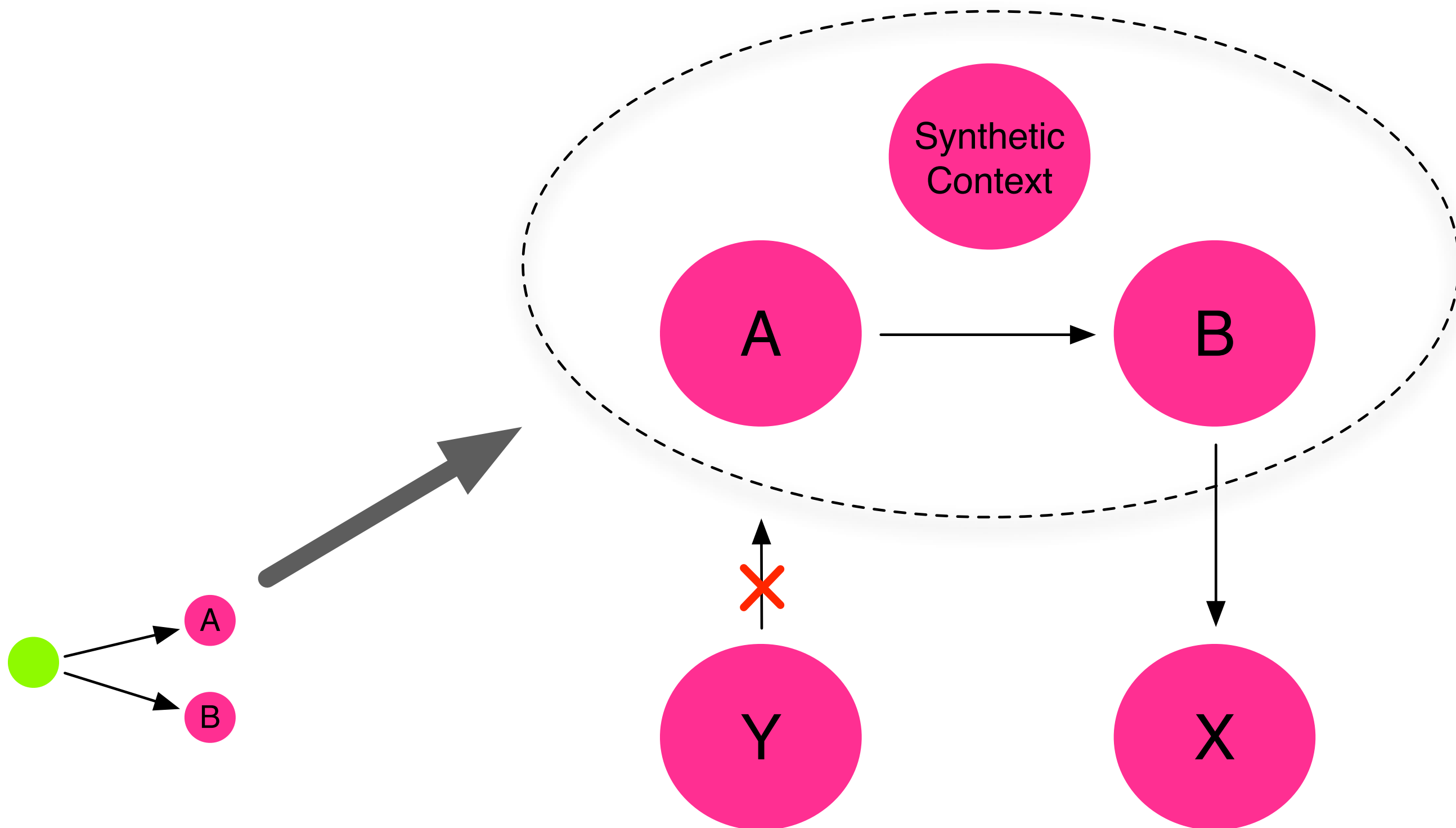


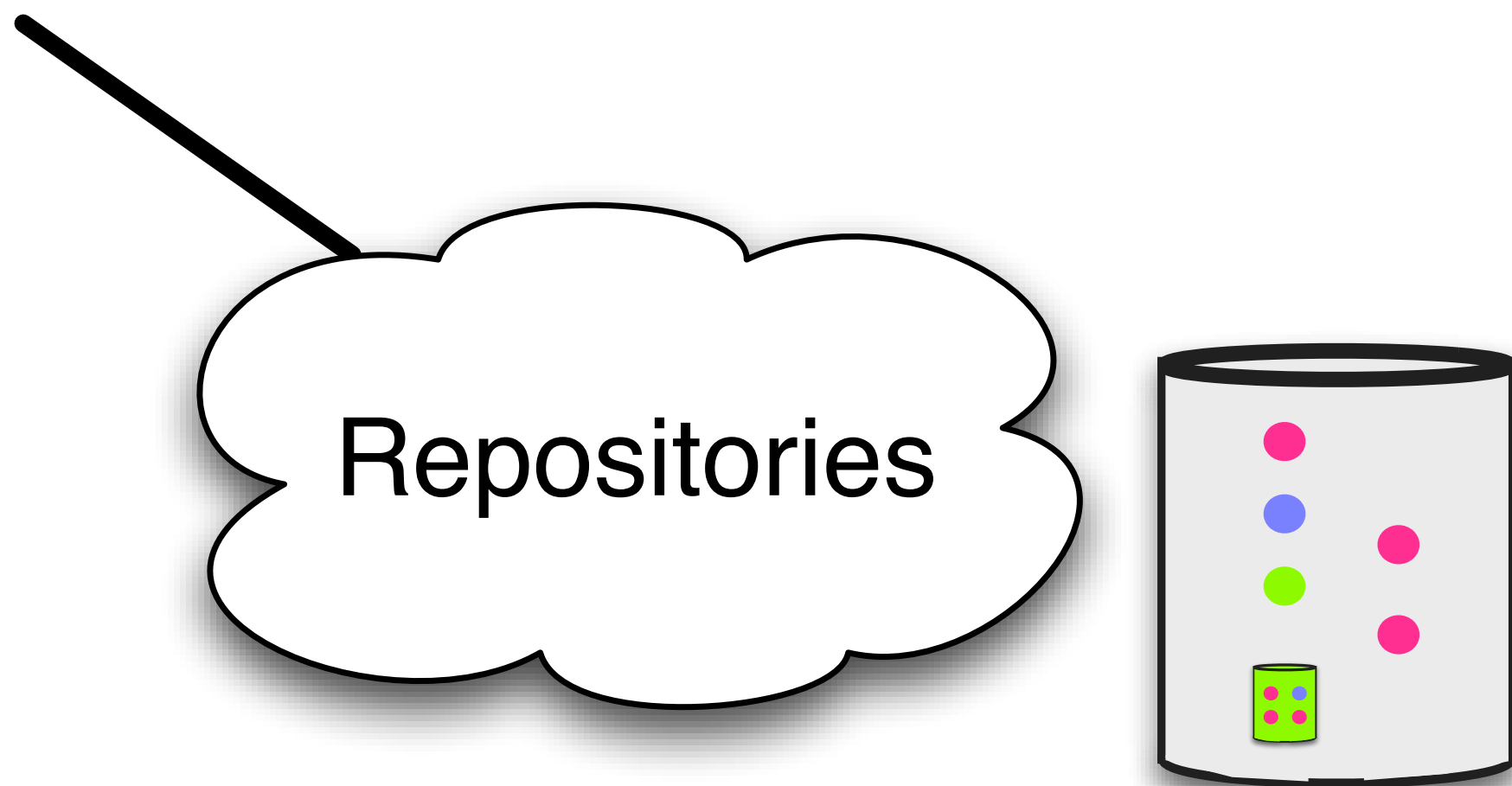
# Plans

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



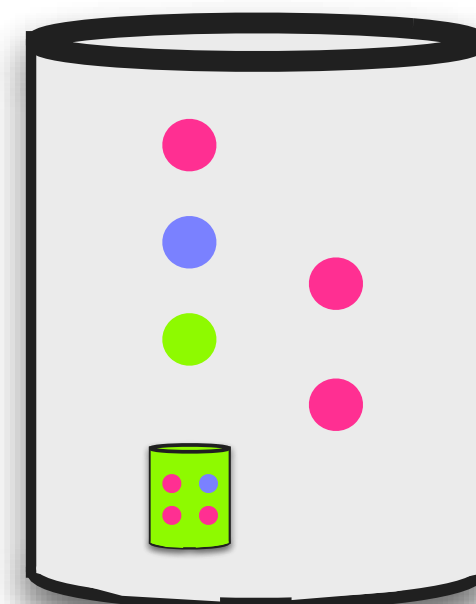
# Scoping



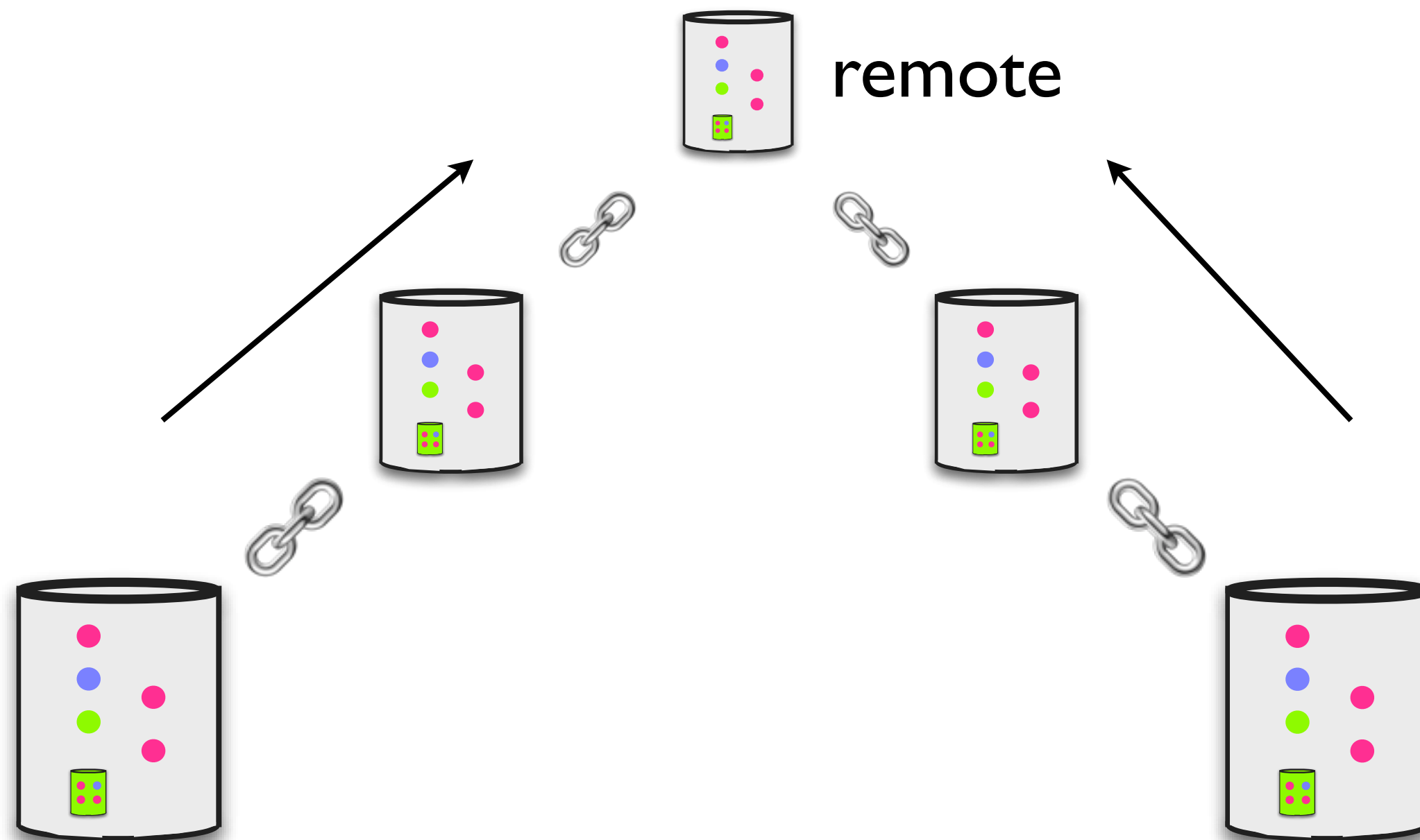


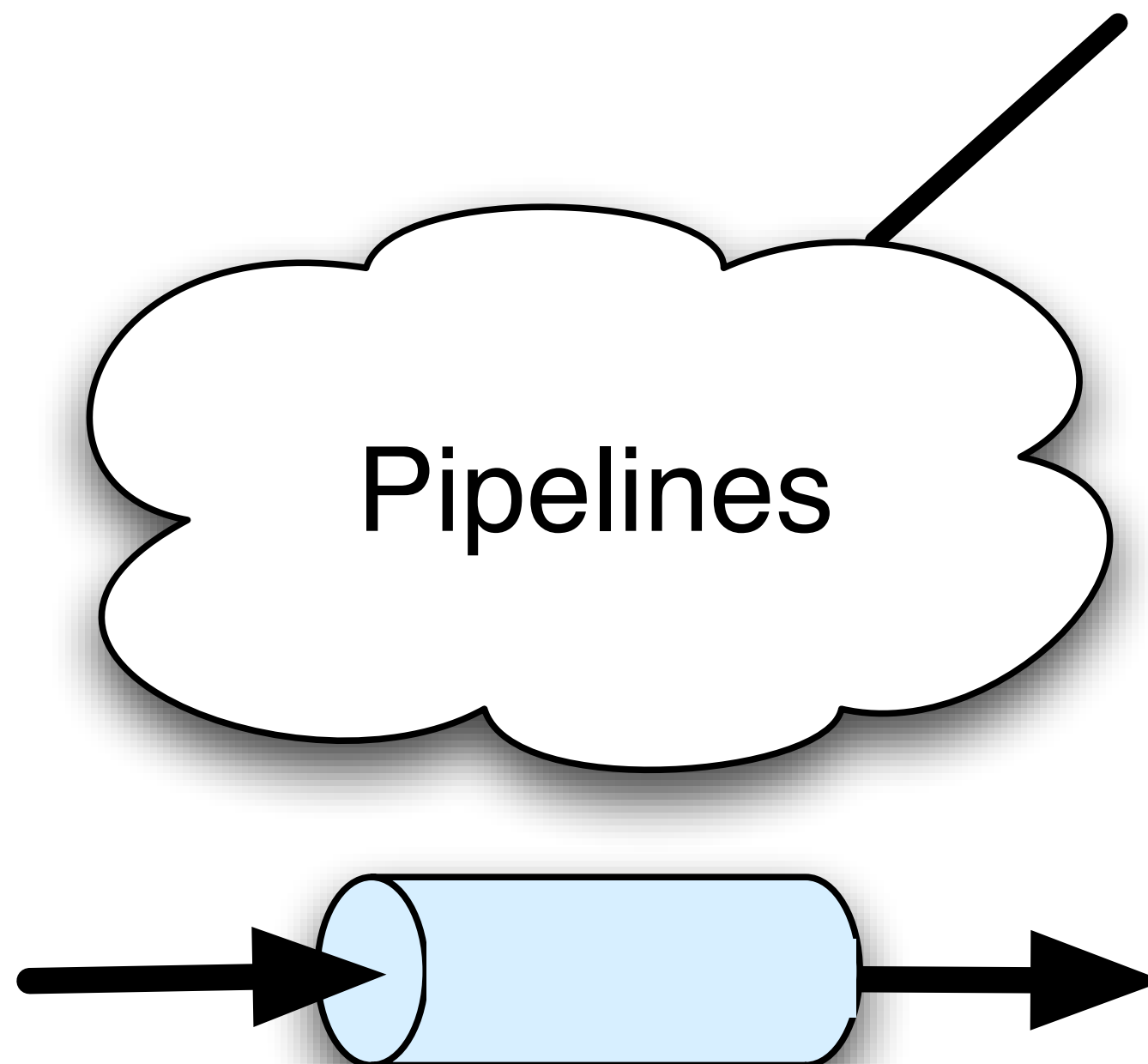
# Repositories

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



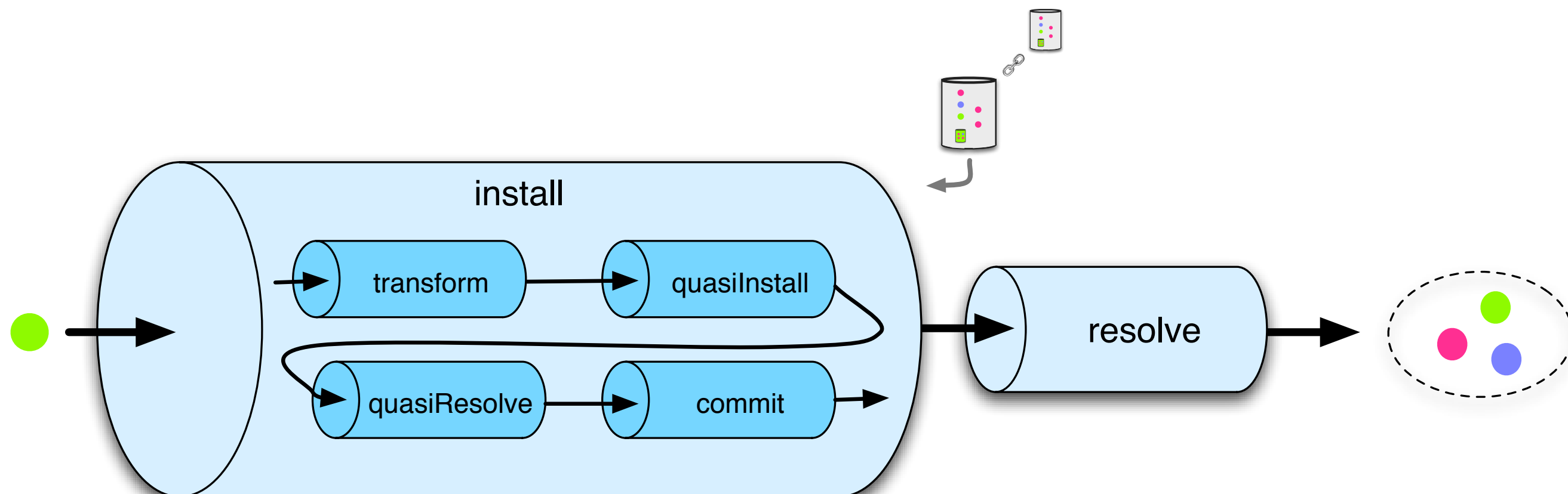
# Repository Chaining

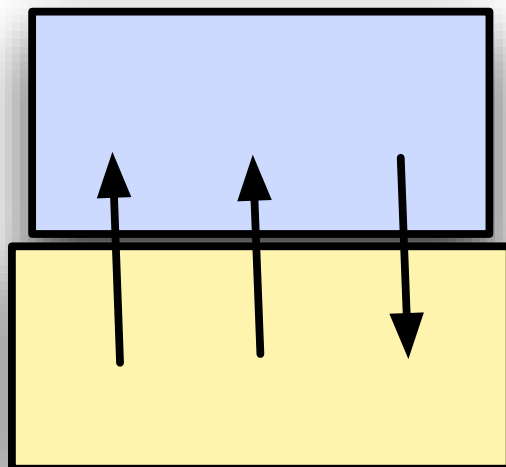






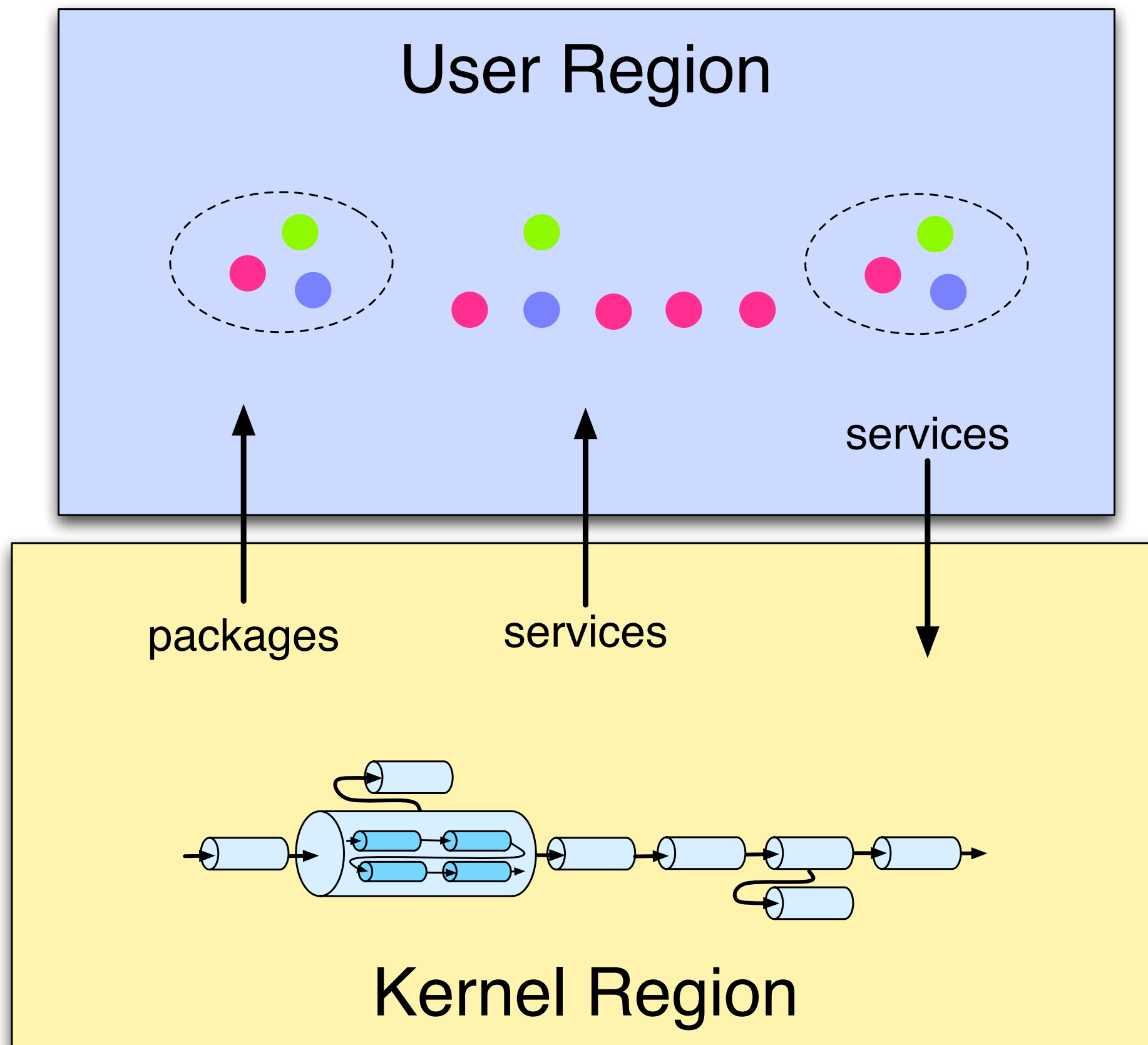
# Pipelines





Regions

# Regions



# How can I get involved?

# Current Status

- Renaming & relicensing underway
- IP scrutiny ready to begin
- Baseline release is the goal

# 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, ...



# Further Information

- Virgo Community Launch BoF
  - Today 7.15pm in Tasman
- <http://www.eclipse.org/virgo>
  - Join us in the forum and dev list
-  #VirgoRT
- <http://www.springsource.org/dmserver>
  - Download dm Server 2.0 and try it out