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Be Fast Or Stay Behind

Building a Continuous Delivery Platform

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Ingmar Krusch, Team Lead in Operations



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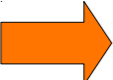
- 2 billion PI per month
- 2 data center with ~800 VM
- ~30 crossfunctional IT teams
- total of ~500 employees
- 14 years in business
- part of Deutsche Telekom



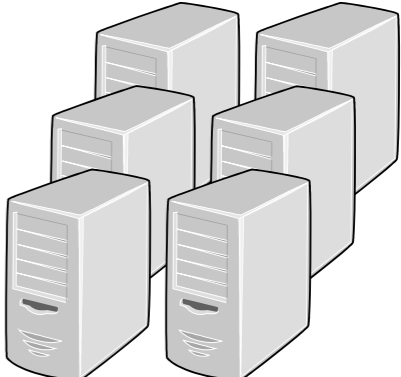
Close Collaboration

Package Deployment

The Big Picture – Continuous Delivery Platform



Business Decision
To go
Live



All Humans are on
the Same Side

Build
Config
Deploy
Test
Systems-
Management



Automation

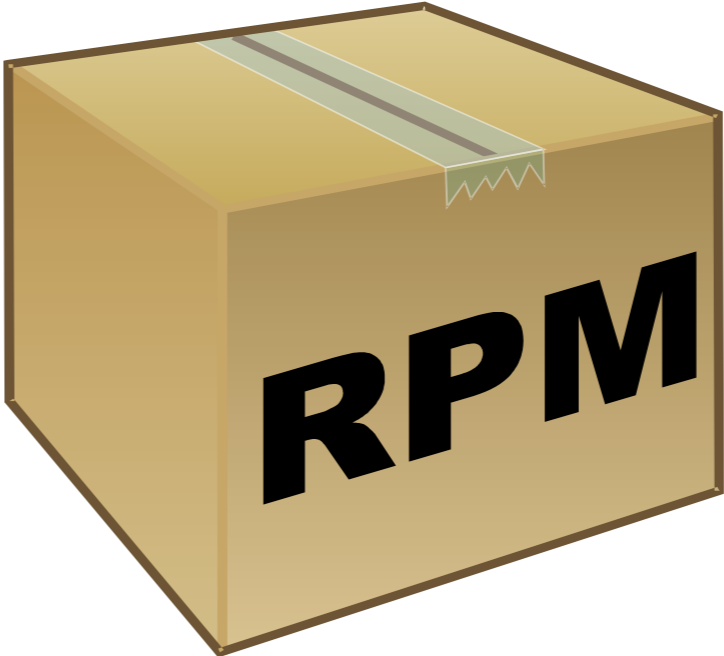
Scale Out
Data Centers

1st task: Reduce Systemic Complexity

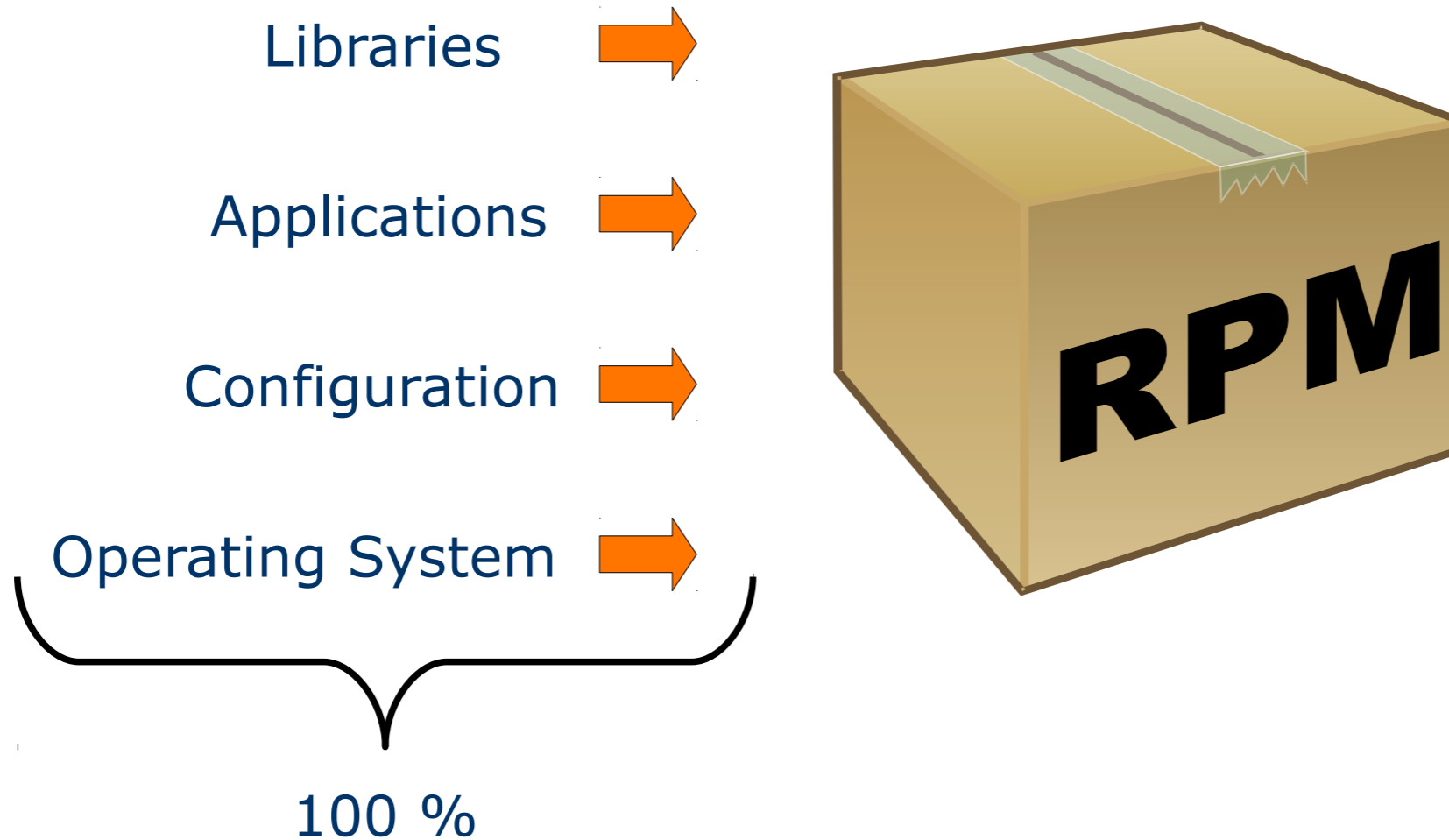
File Management

Systems Management

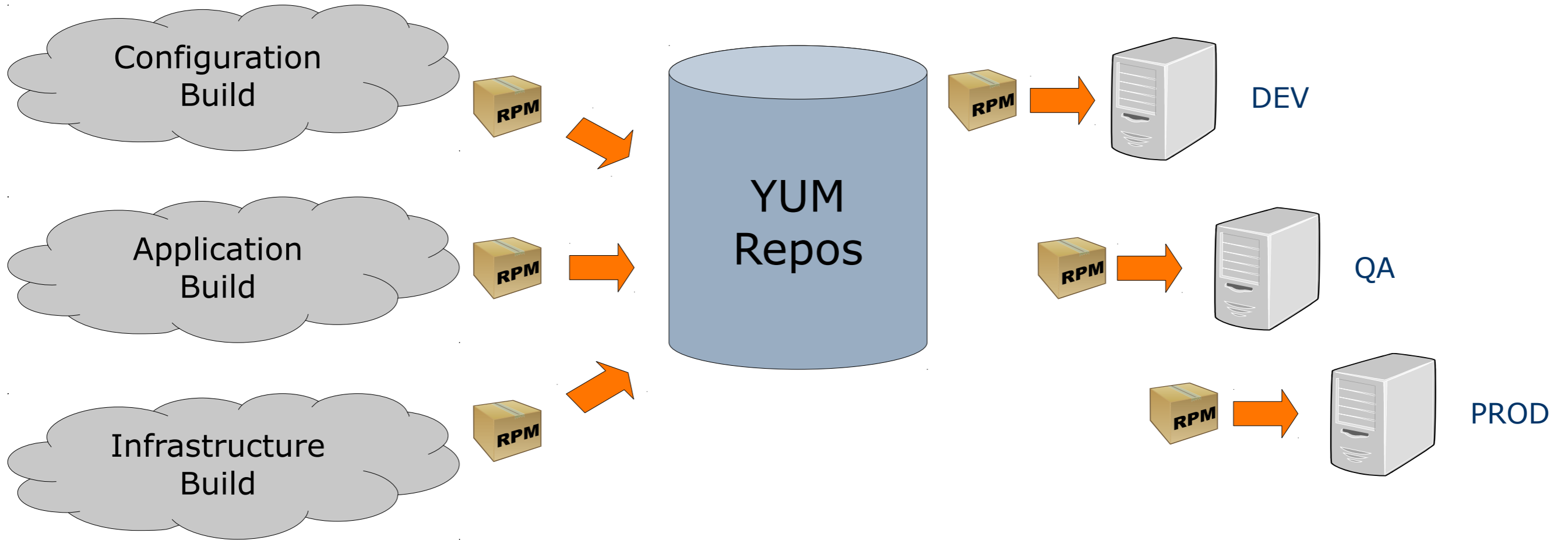
File Management with RPM & YUM



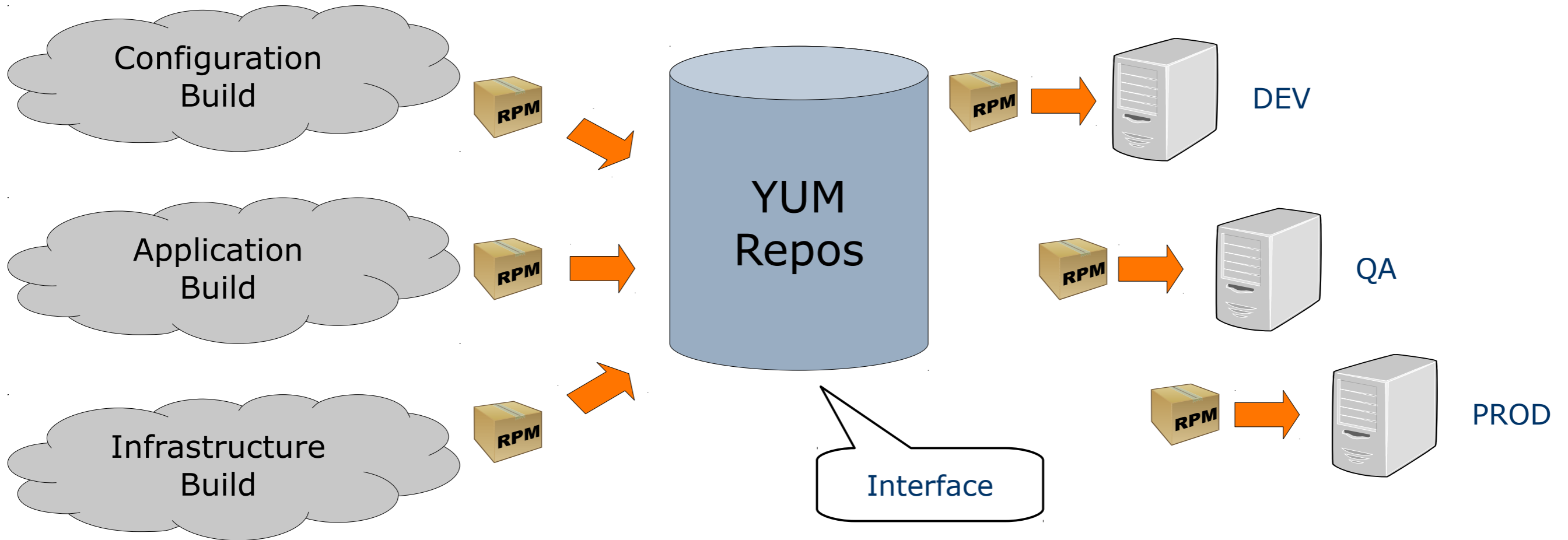
File Management with RPM & YUM



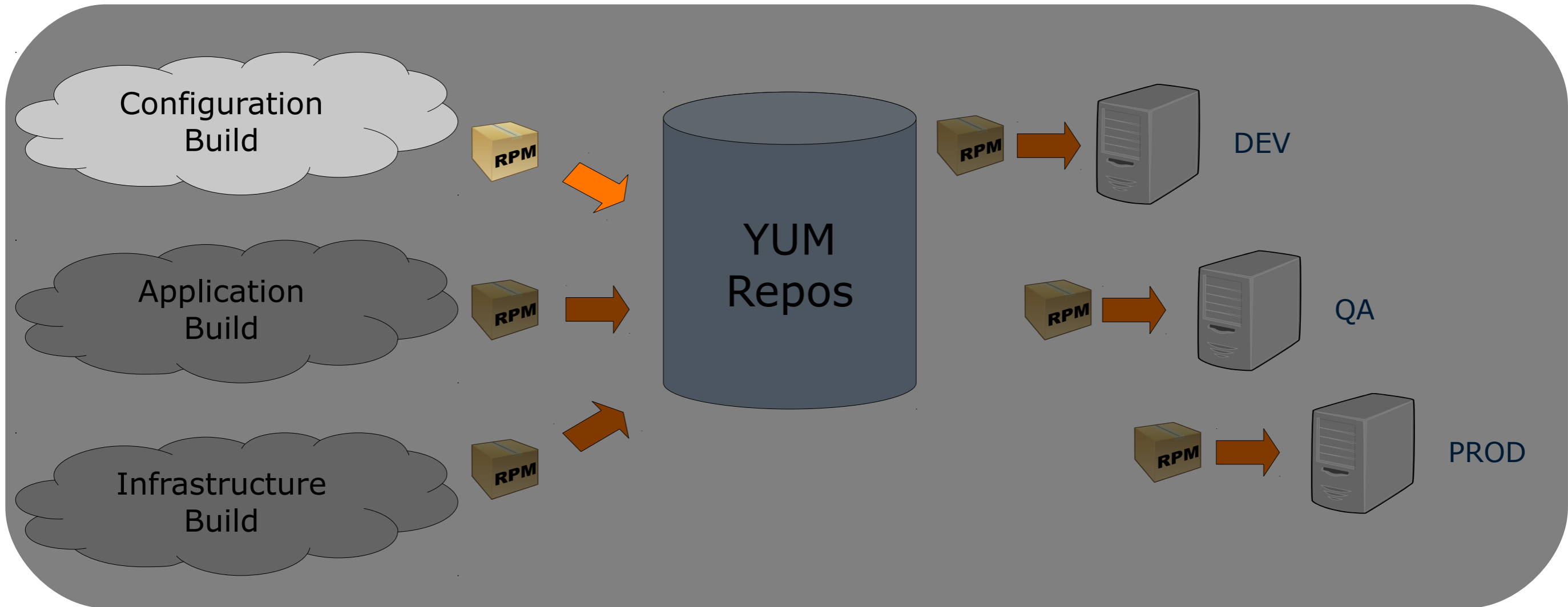
File Management with RPM & YUM



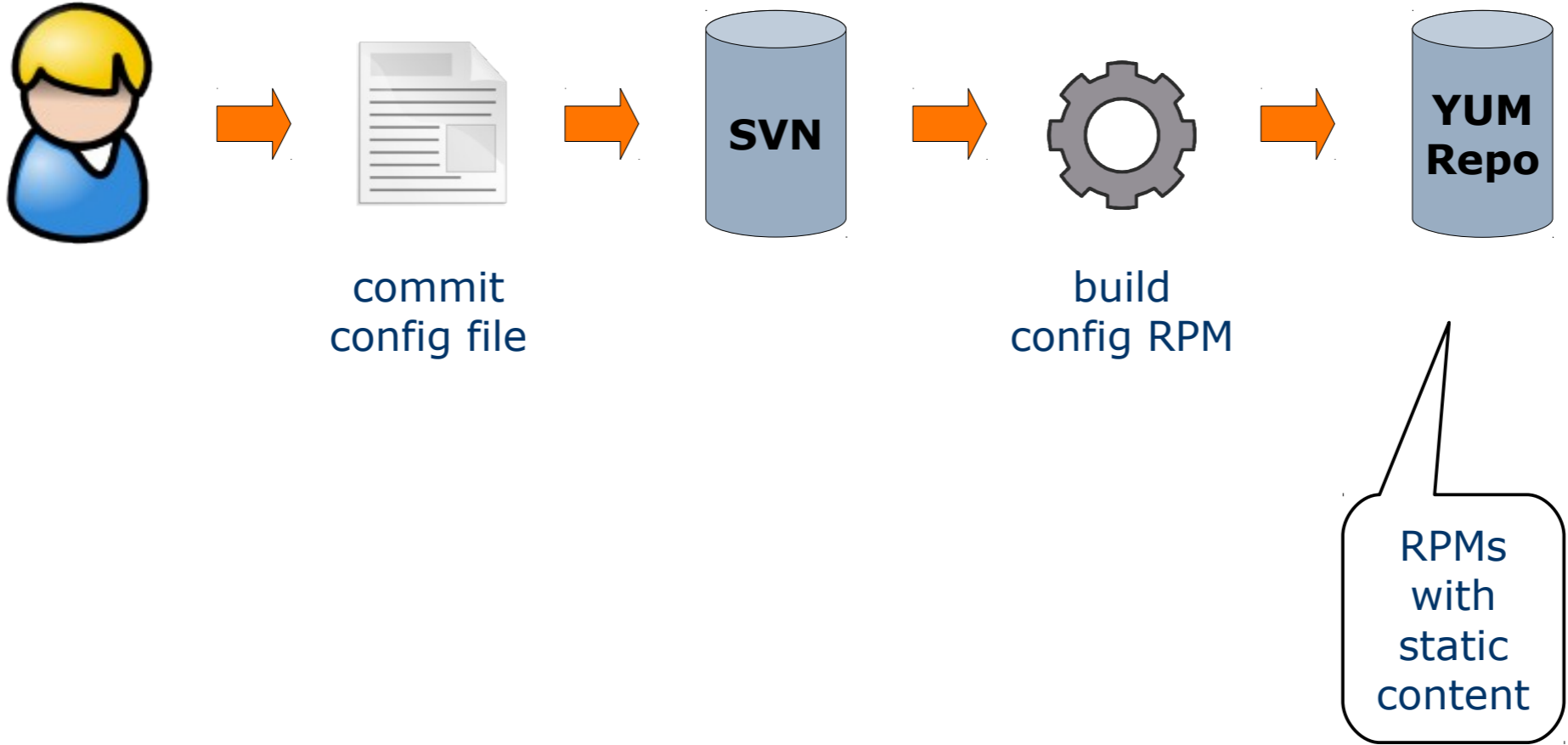
File Management with RPM & YUM



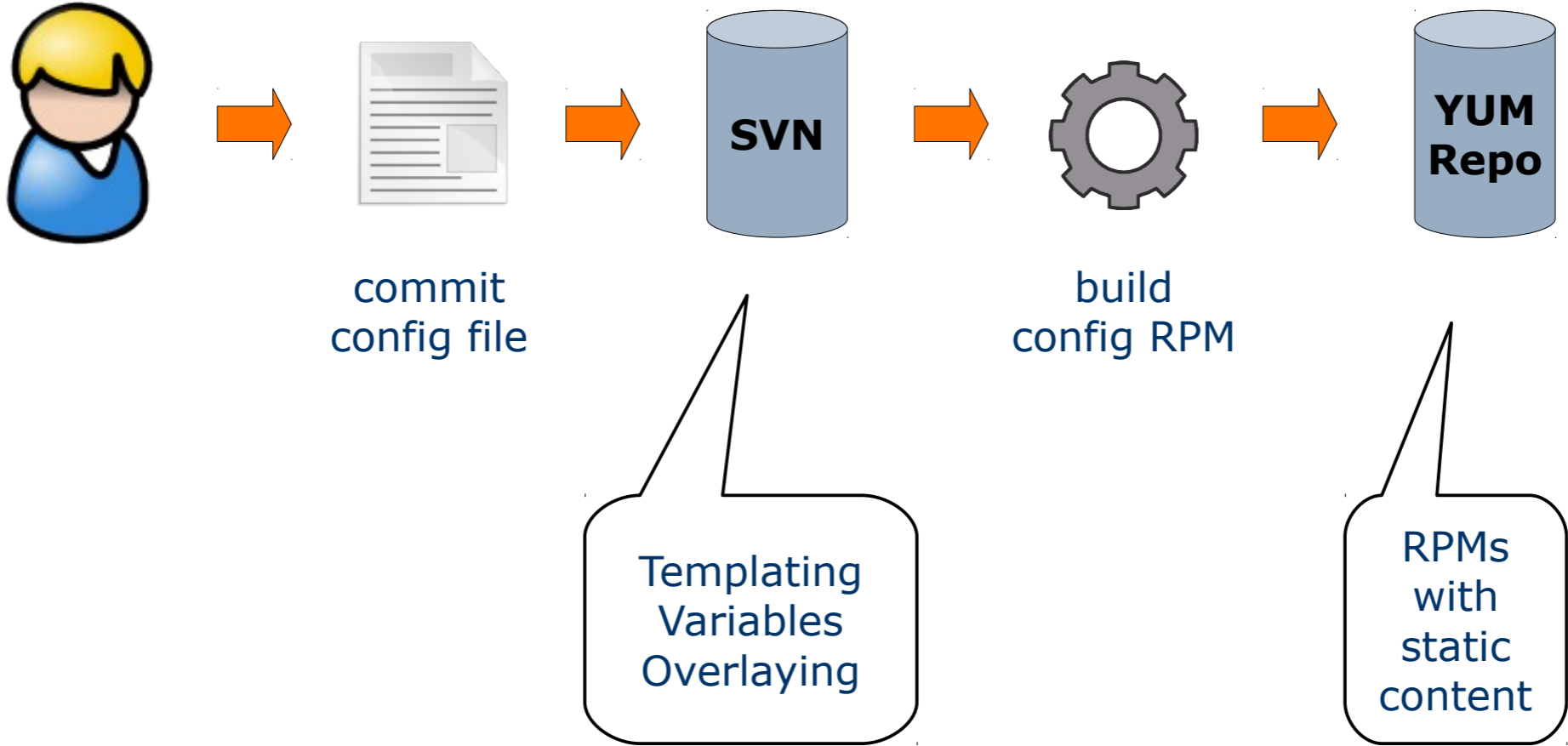
Configuration Build – Pre-built Config Content



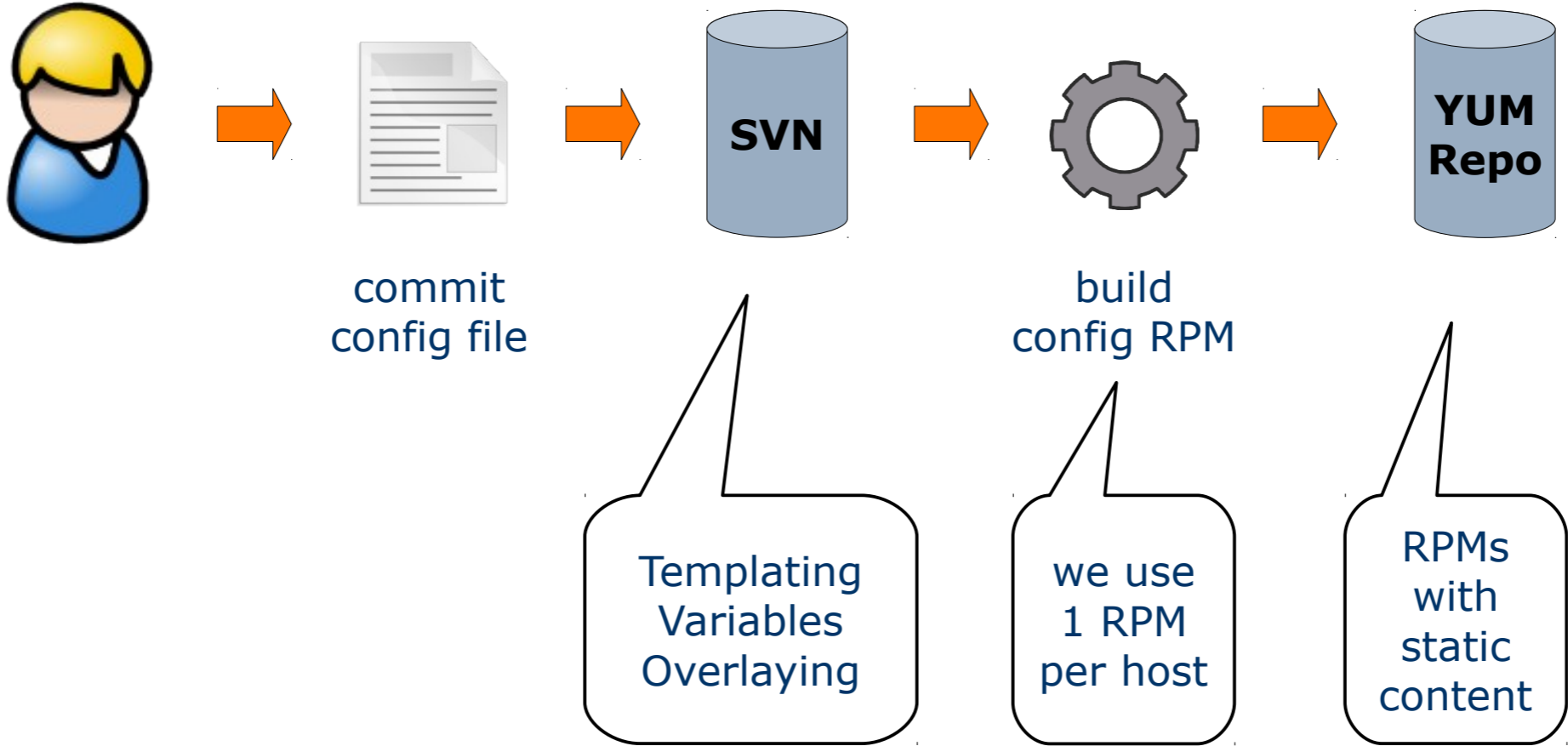
Configuration Build – Pre-built Config Content



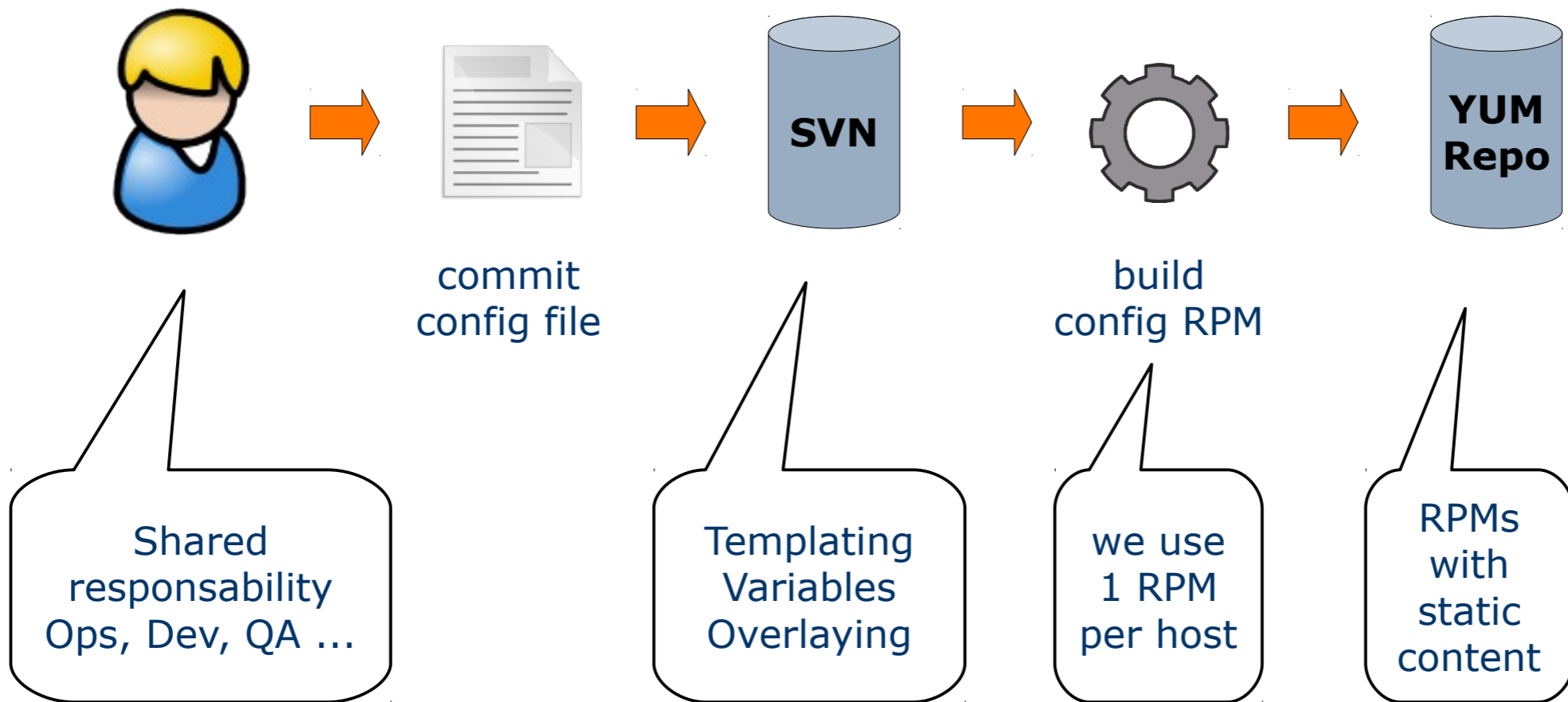
Configuration Build – Pre-built Config Content



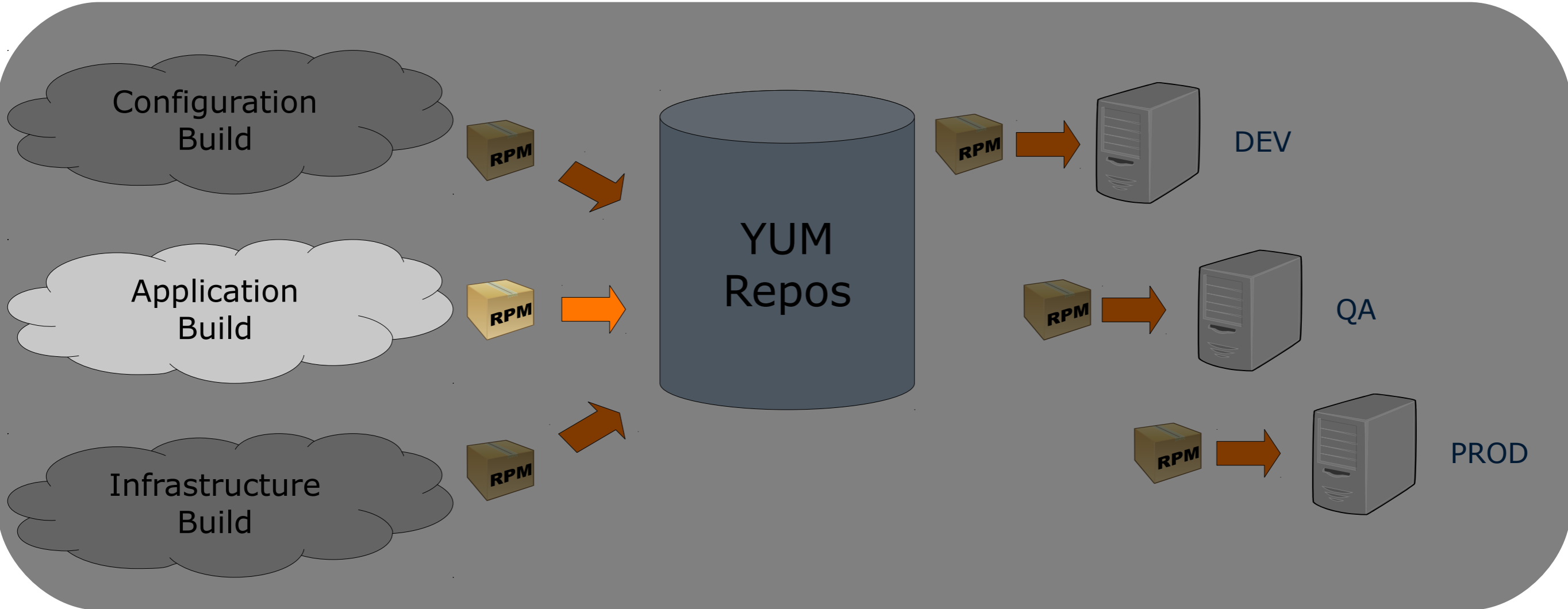
Configuration Build – Pre-built Config Content



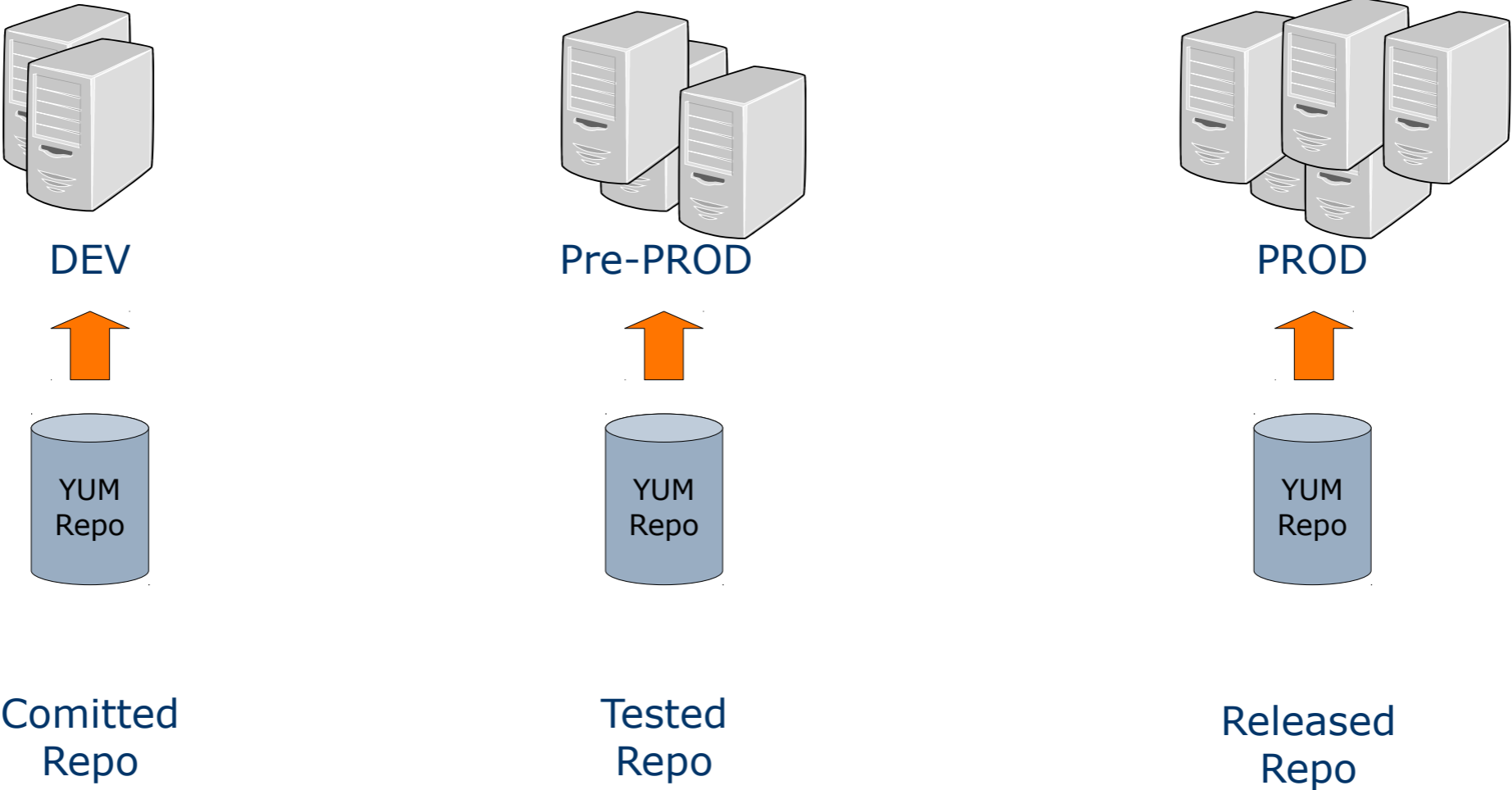
Configuration Build – Pre-built Config Content



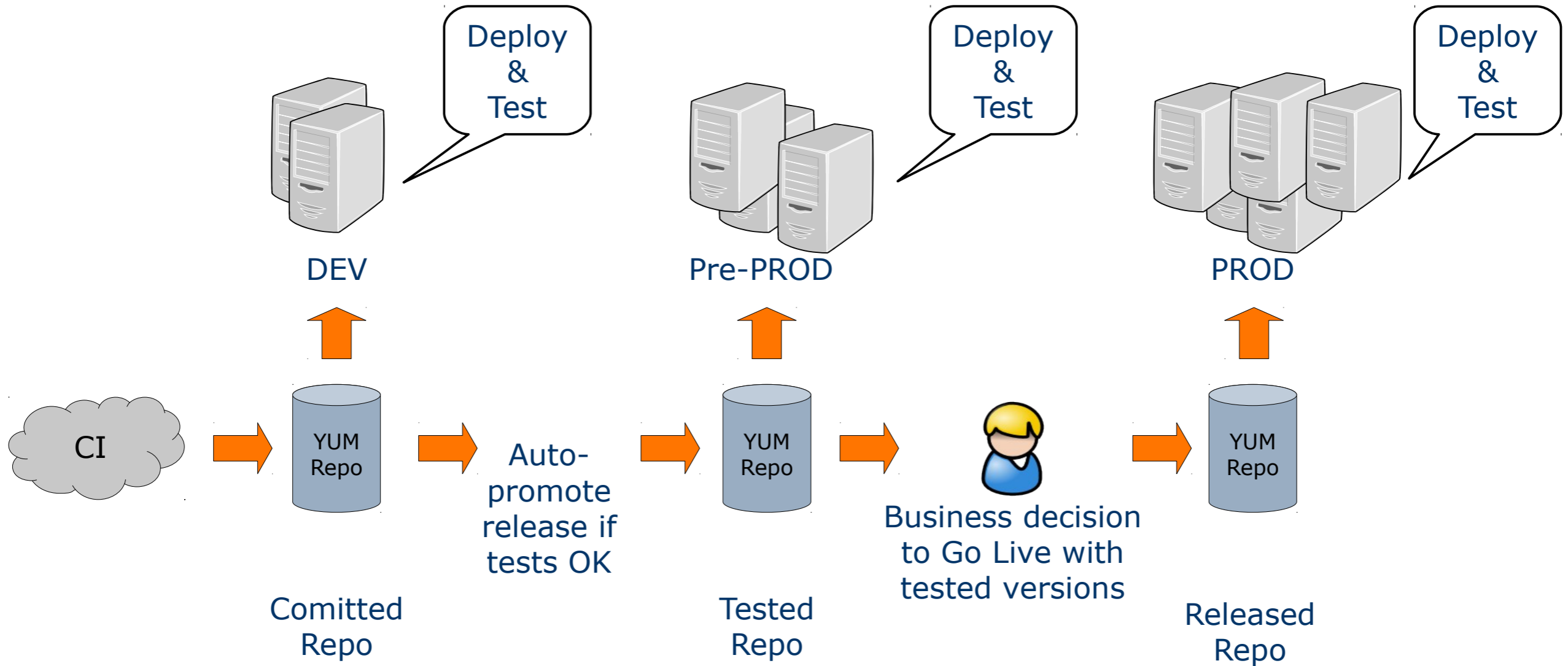
Application Build – Continuous Release Delivery



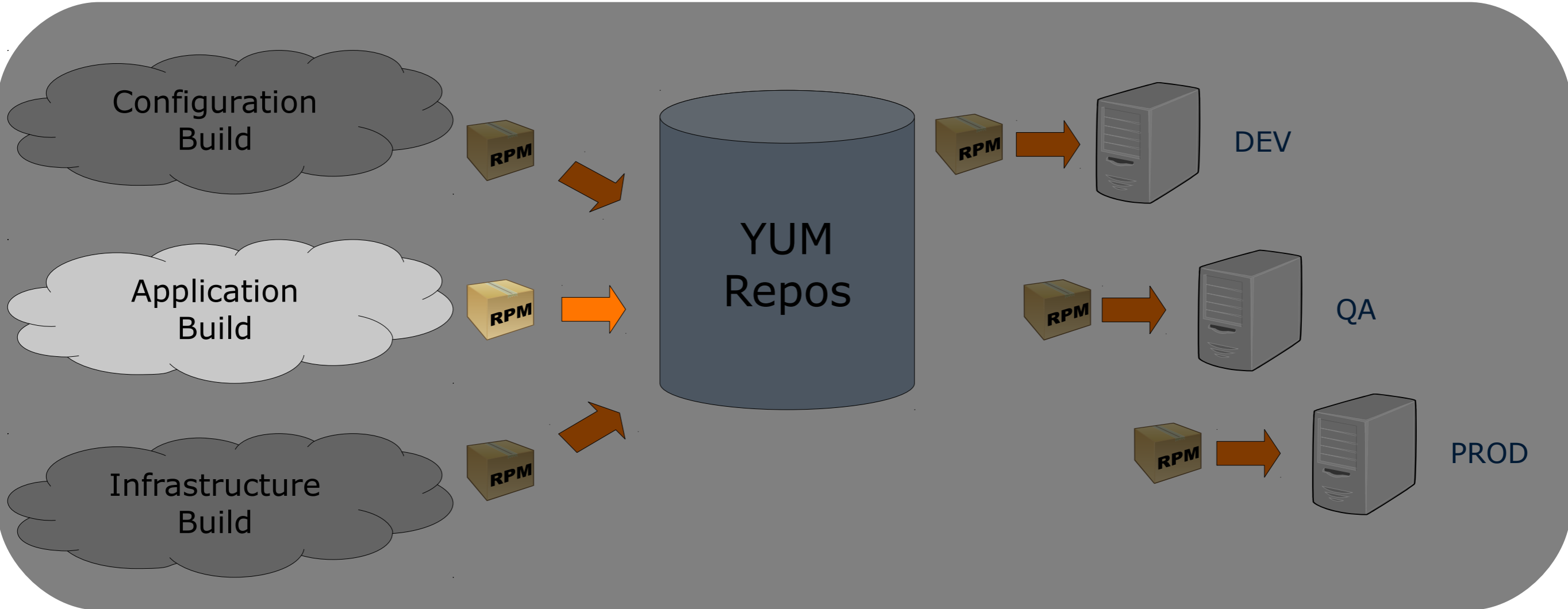
Application Build – Package Promotion Pipeline



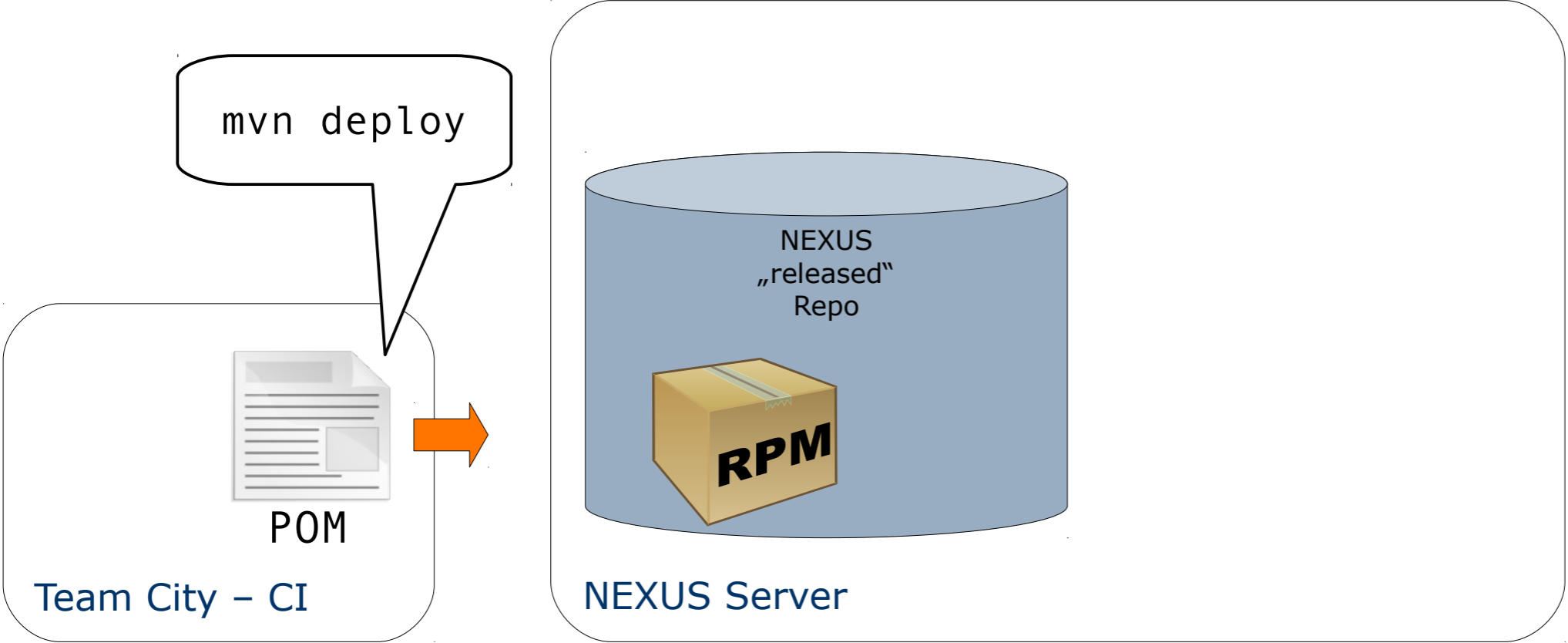
Application Build – Package Promotion Pipeline



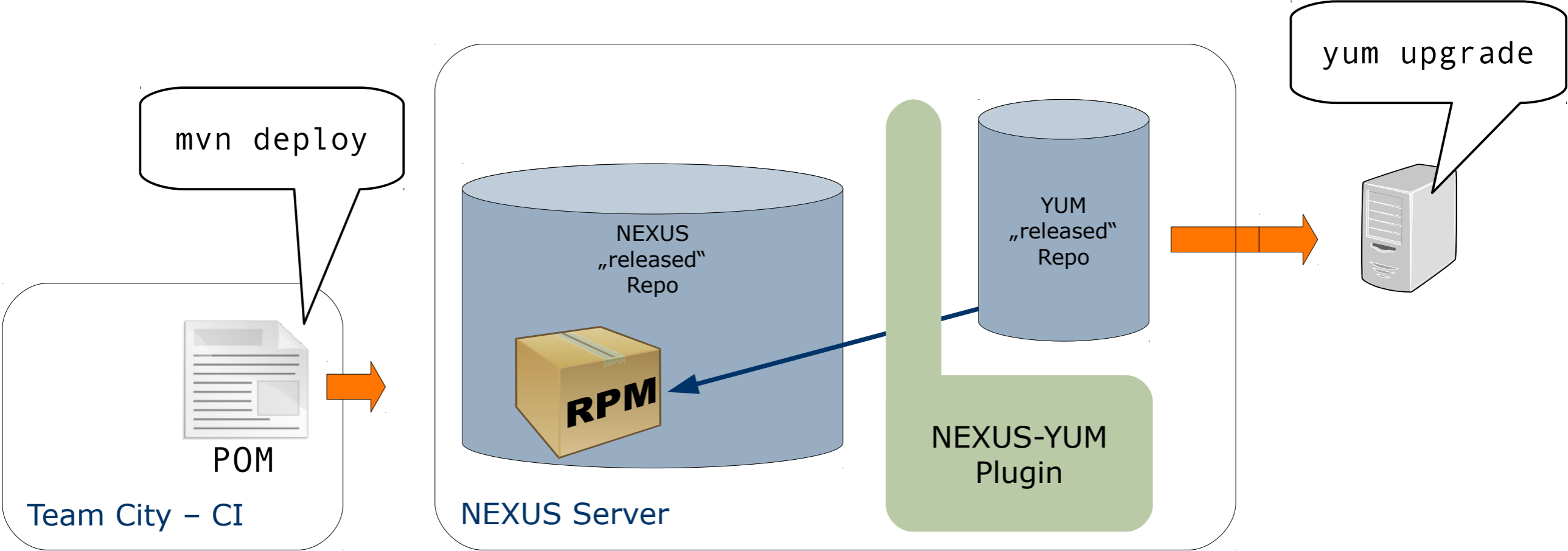
Application Build – Site-wide Releases



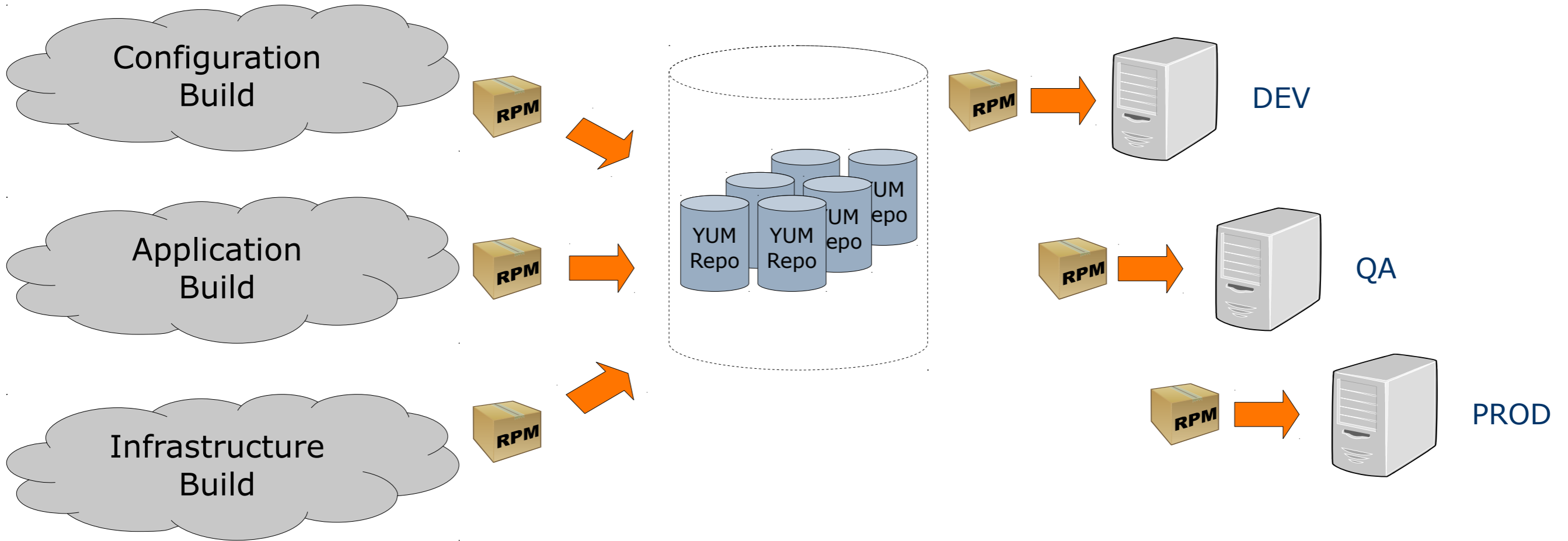
Application Build – Site-wide Releases



Application Build – Site-wide Releases



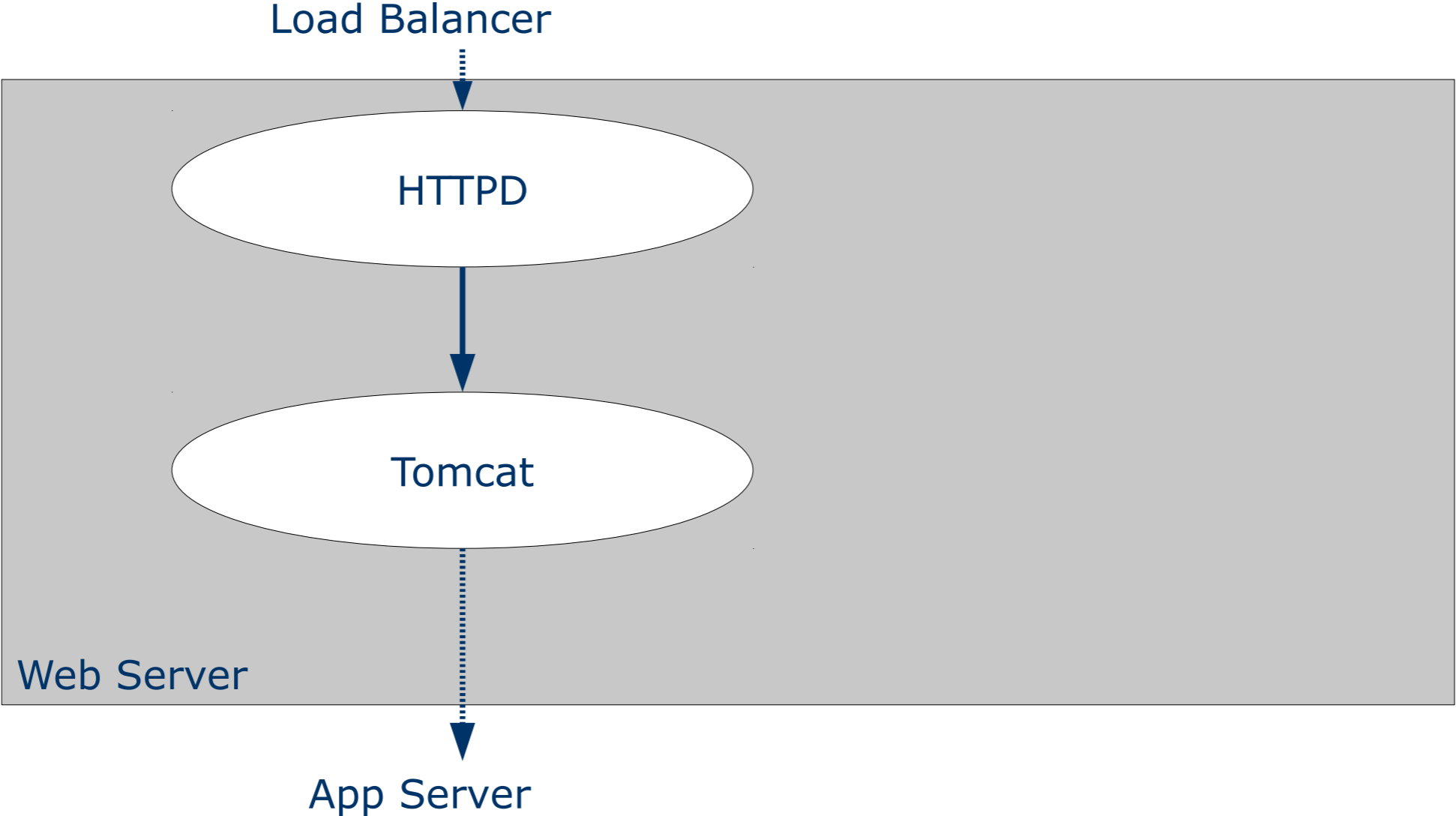
File Management through many YUM repositories



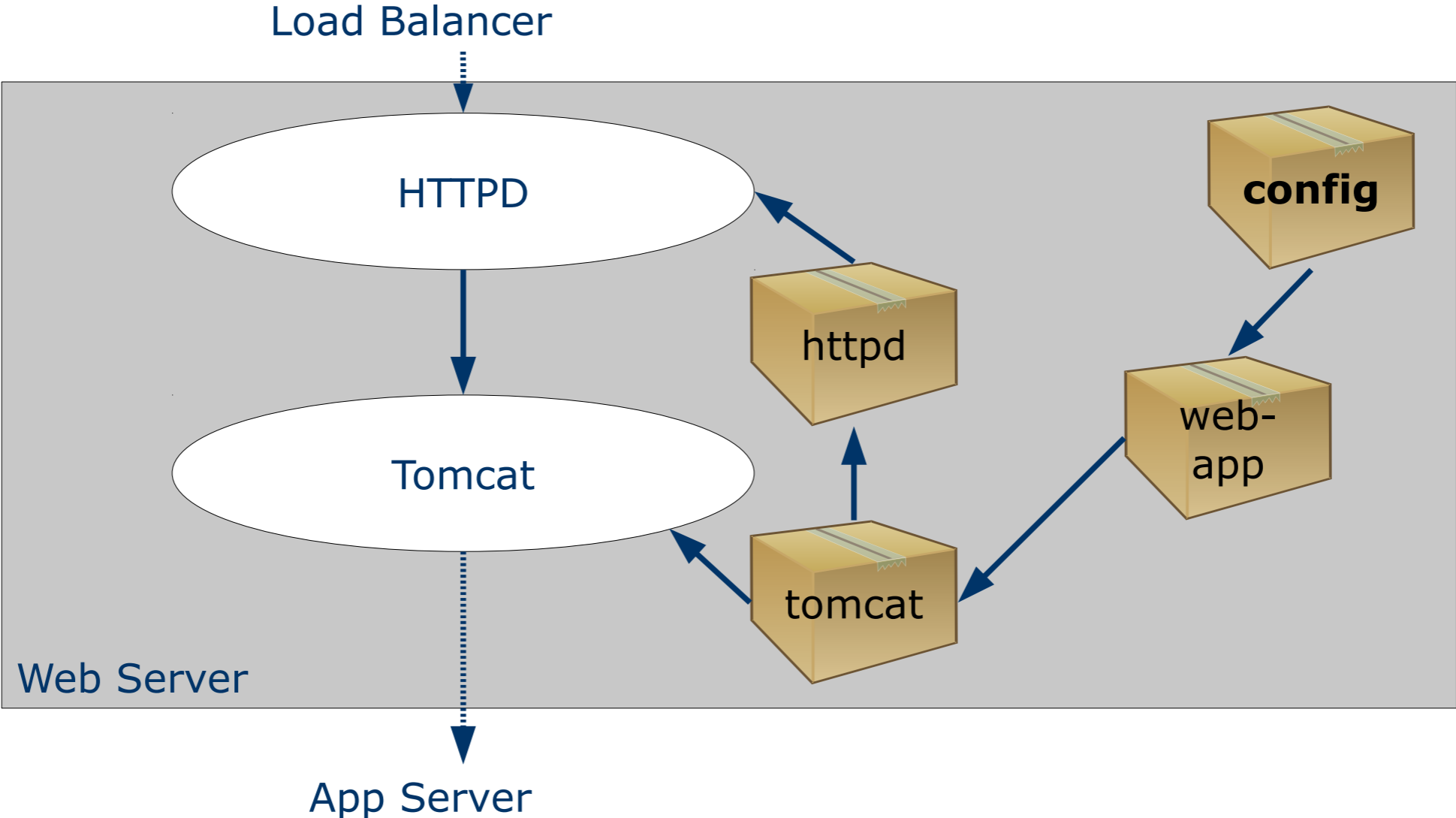
Systems Management with YADT

YADT – an Augmented Deployment Tool

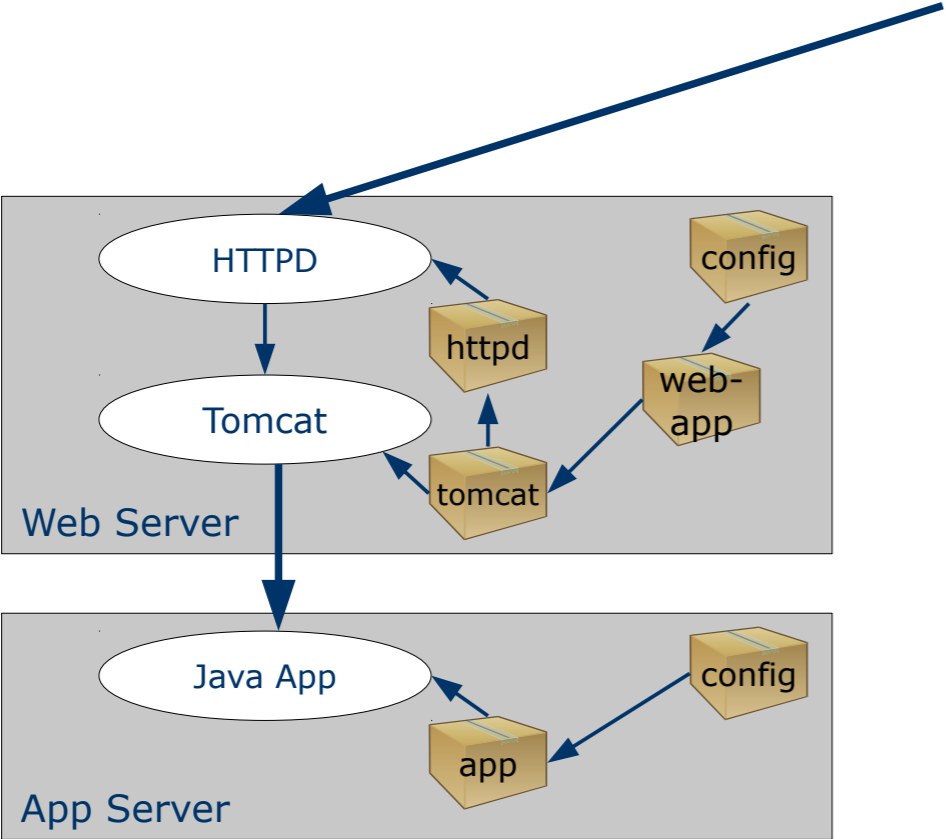
YADT – Unified Dependency Tree



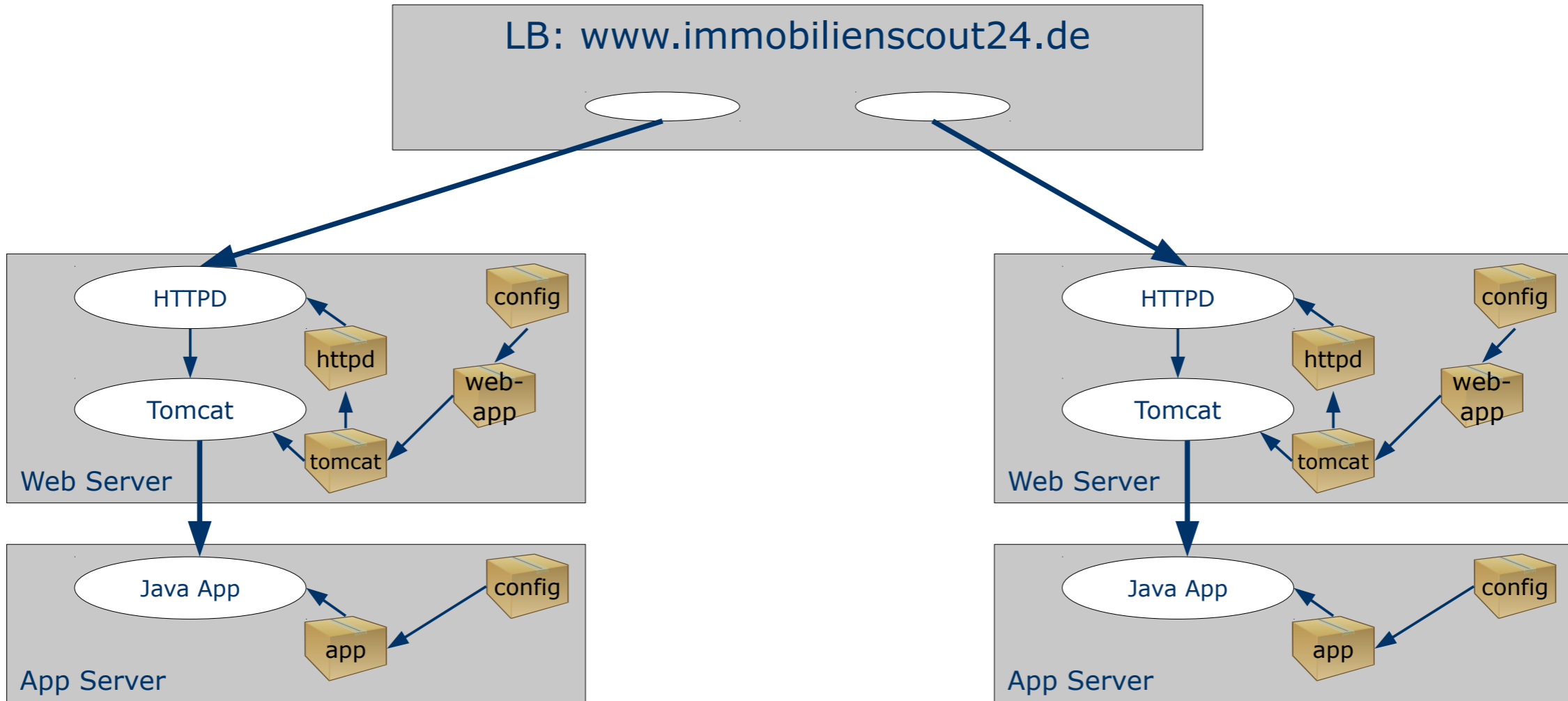
YADT – Unified Dependency Tree



YADT – Large Scale System Management

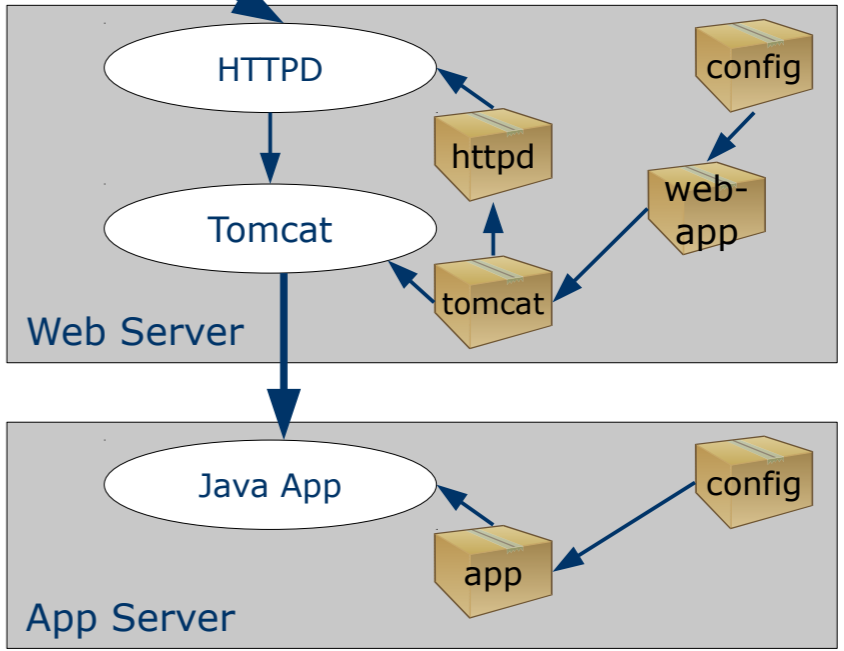
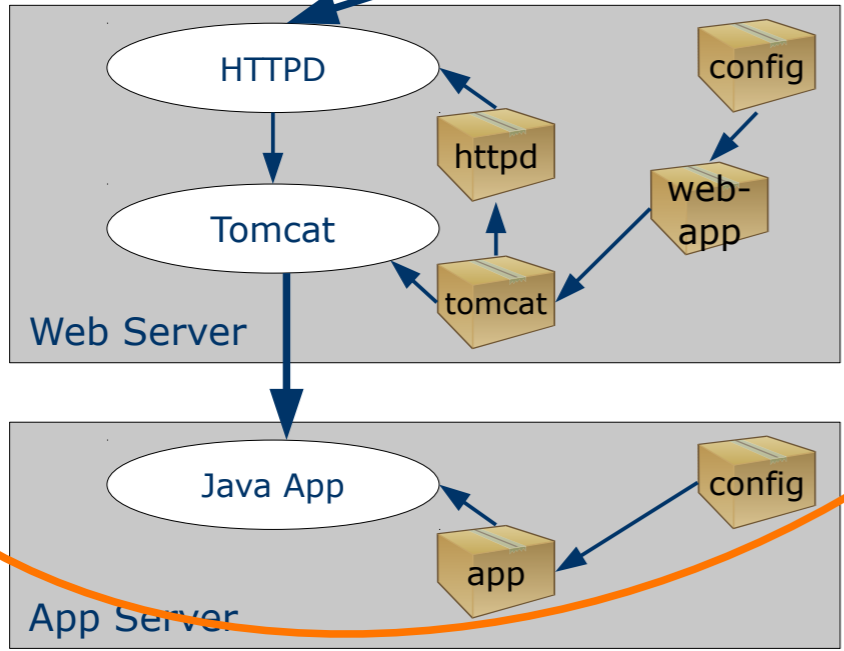
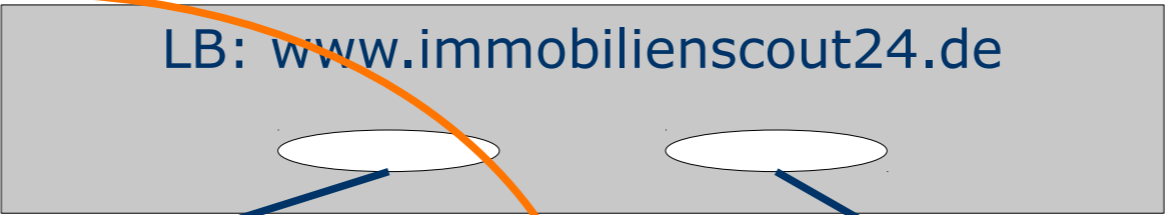


YADT – Large Scale System Management



YADT – Large Scale System Management

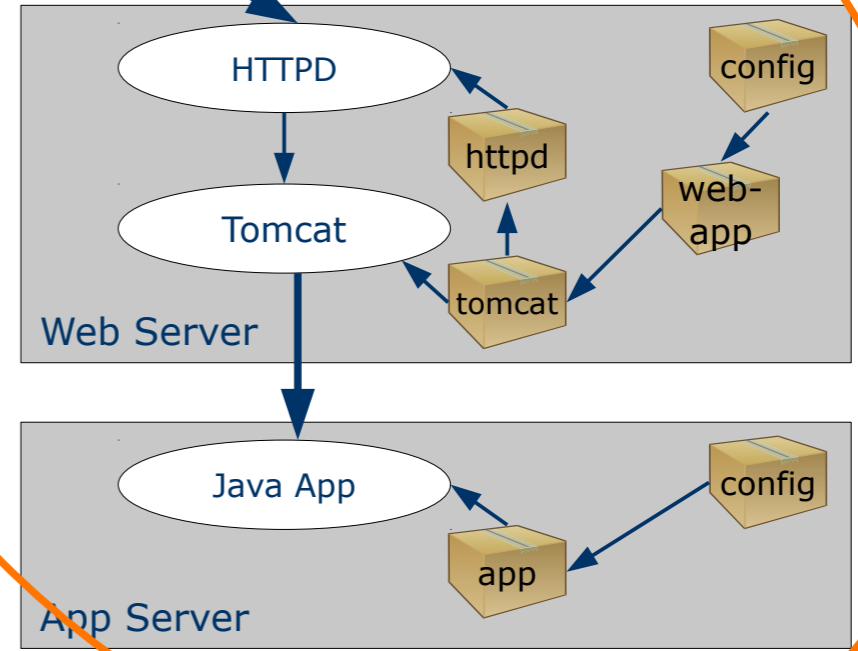
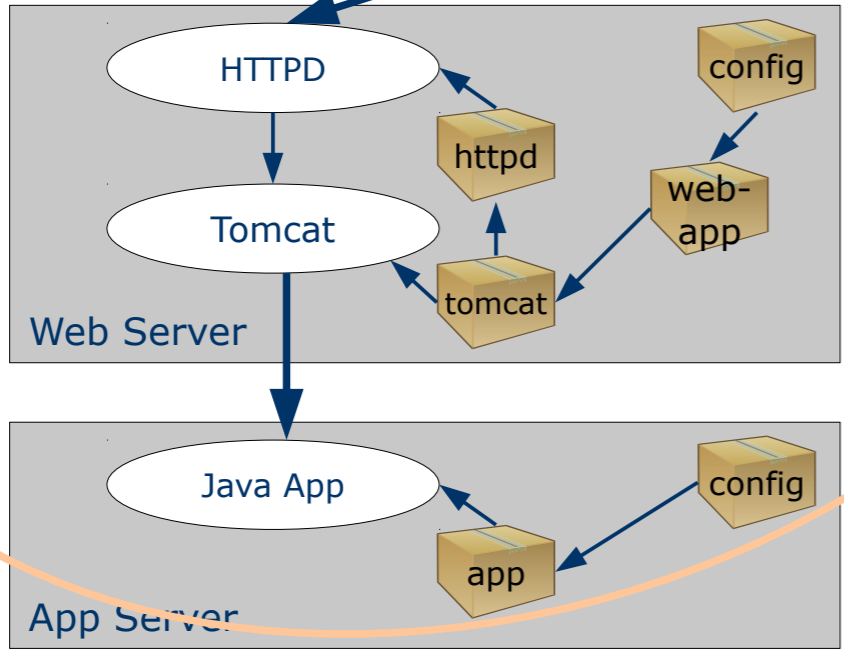
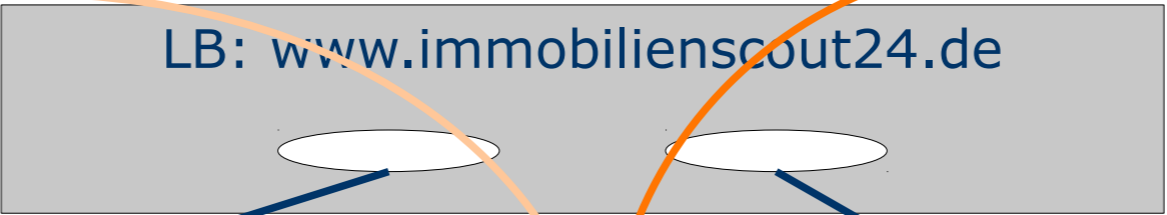
1st chunk



S: YADT – Large Scale System Management

1st chunk

2nd chunk



Systems Management with YADT

Reduce Systemic Complexity

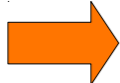
Reduce Systemic Complexity

Decoupled Applications

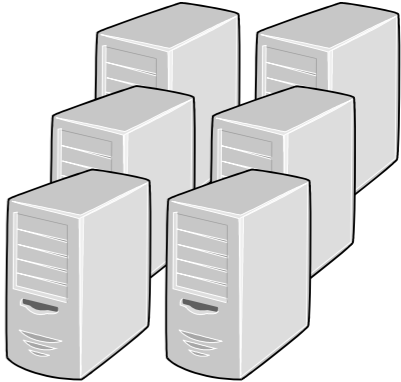
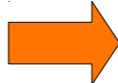
Reduce Systemic Complexity

Developers Build Infrastructure

This Automation is our Continuous Delivery Platform



Business
Decision
To go
Live



All Humans are on
the Same Side

AUTOMATION

Scale Out
Data Centers

We build it together as one team.

We understand it completely.

And it is fully automated.

Open-Source from the start

<https://code.google.com/p/yadt>

<https://code.google.com/p/nexus-yum-plugin>

<http://sourceforge.net/projects/yadtdownloads>

What is the real competitive advantage?

<https://code.google.com/p/yadt>

<https://code.google.com/p/nexus-yum-plugin>

<http://sourceforge.net/projects/yadtdownloads>

Massively Reduce Systemic Complexity

Work As One Team

Thank you very much!
**Please contact us for further
questions and discussions.**



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