

# Entwicklungswerkzeuge von der Anforderung bis zum Release

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## Git und die Atlassian Dev Tools

Tilman Potthof //SEIBERT/MEDIA

# DAS BIN ICH

- Entwickler bei //SEIBERT/MEDIA
- Webanwendungen mit Java und JavaScript
- Consulting für GIT und DevTools

# WER SEID IHR?

- Projektmanager / Product-Owner
- Admins
- Entwickler
- Sonstiges

# MIT WAS ARBEITET IHR?

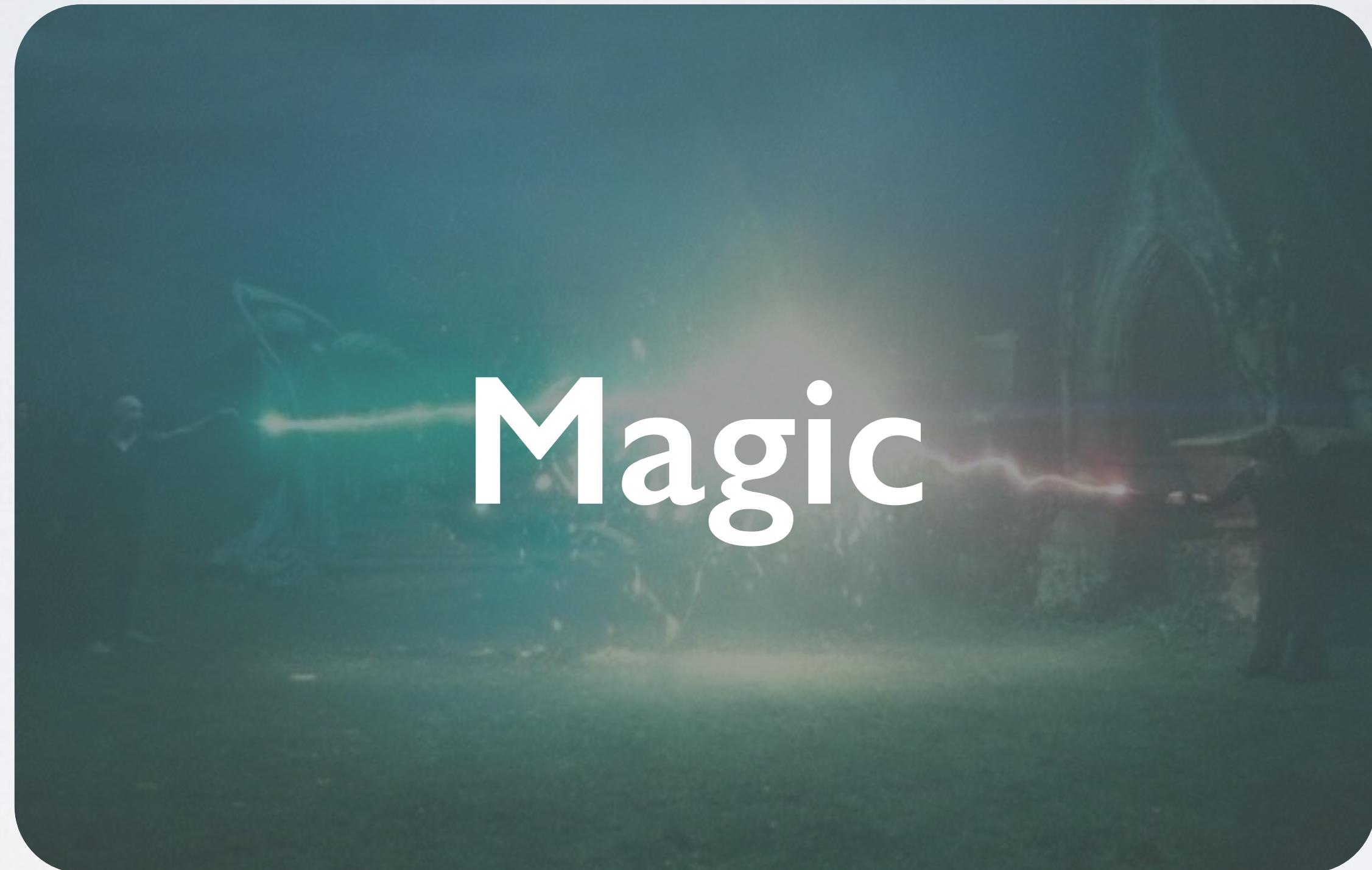
- JIRA
- Bitbucket Server (ehemals Stash)
- Bamboo
- **git**

# INHALT FÜR 15MIN

- Entwickler-Perspektive auf die DevTools
- JIRA, Bitbucket Server, Bamboo
- Rolle von **git**
- Fokus auf Zusammenspiel der Tools
- Abkürzungen durch Behauptungen



○ →  
Anforderungen

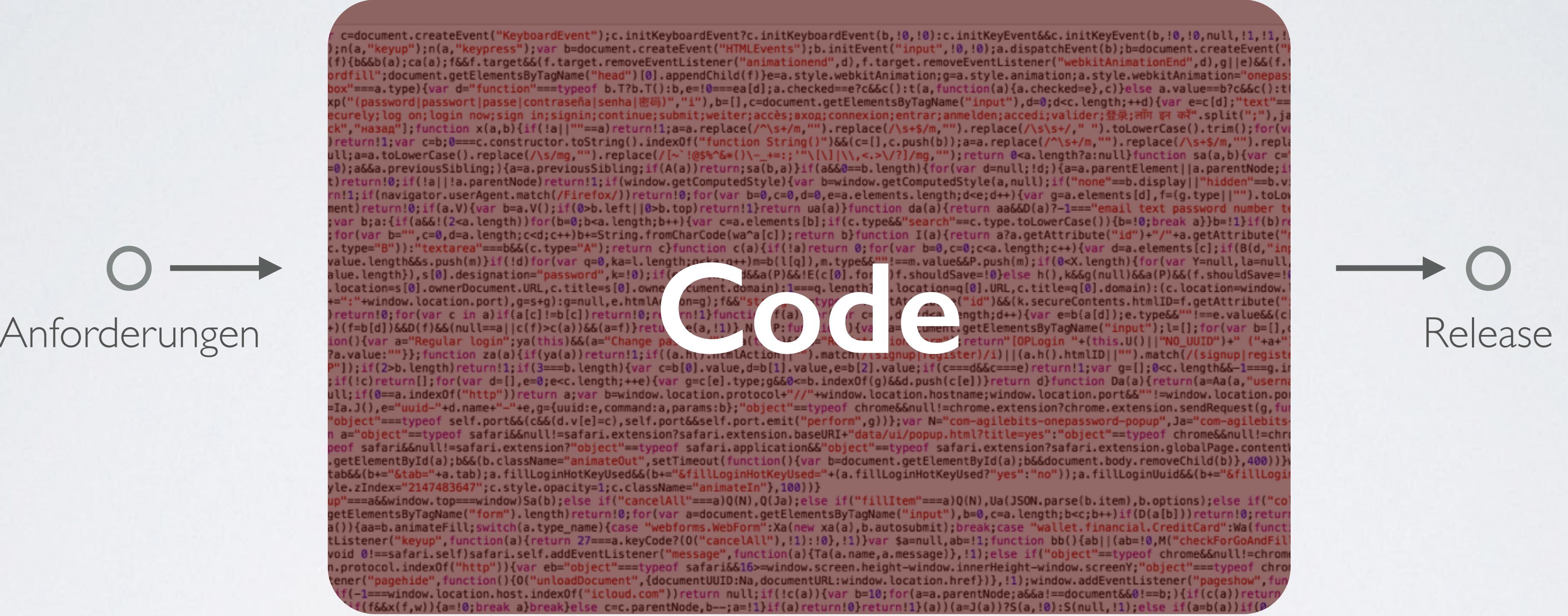


→ ○  
Release

○ →  
Anforderungen



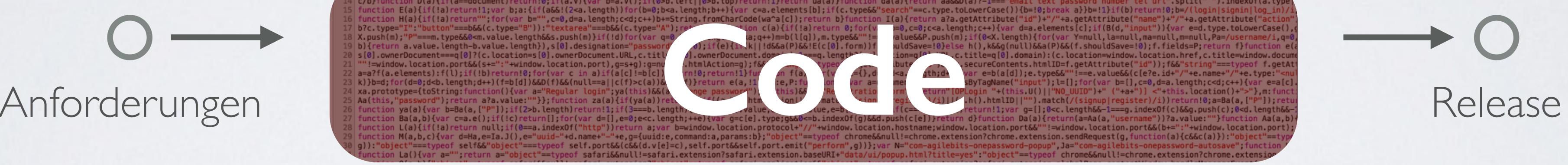
→ ○  
Release





**MY JOB HERE IS DONE**

Troll.me

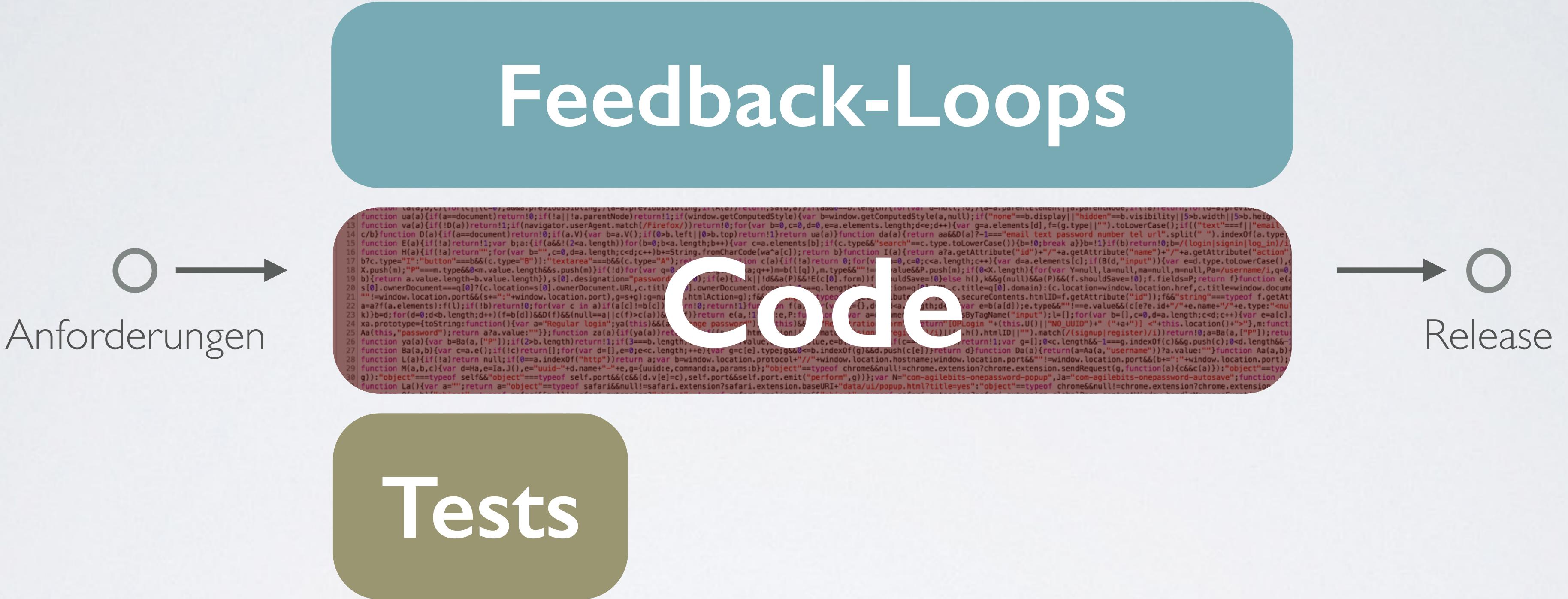


# Feedback-Loops

## Code

# Anforderungen

# Release



# Feedback-Loops

## Code

# Anforderungen

## Release

# Tests

# Build

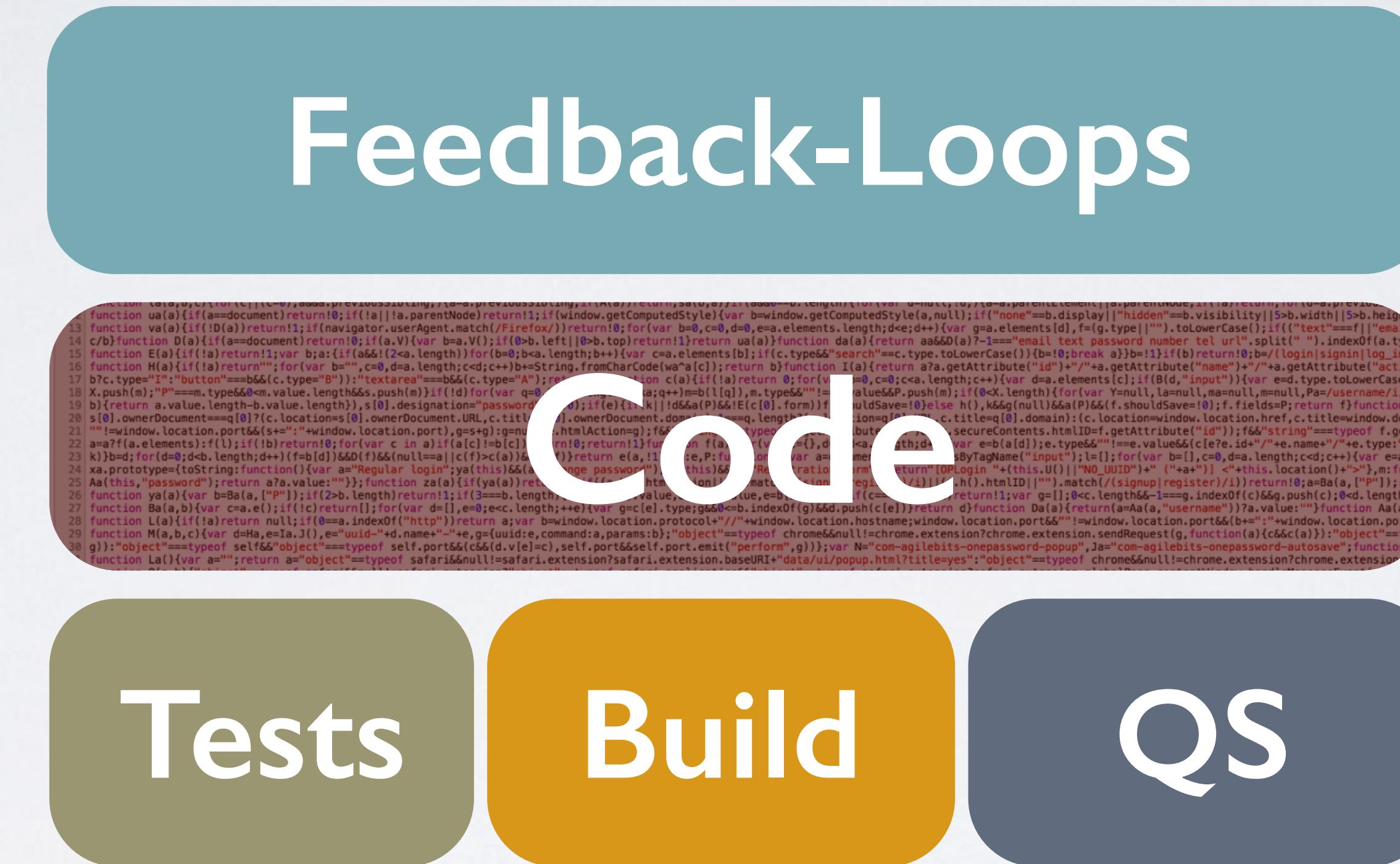
# Feedback-Loops

# Anforderungen

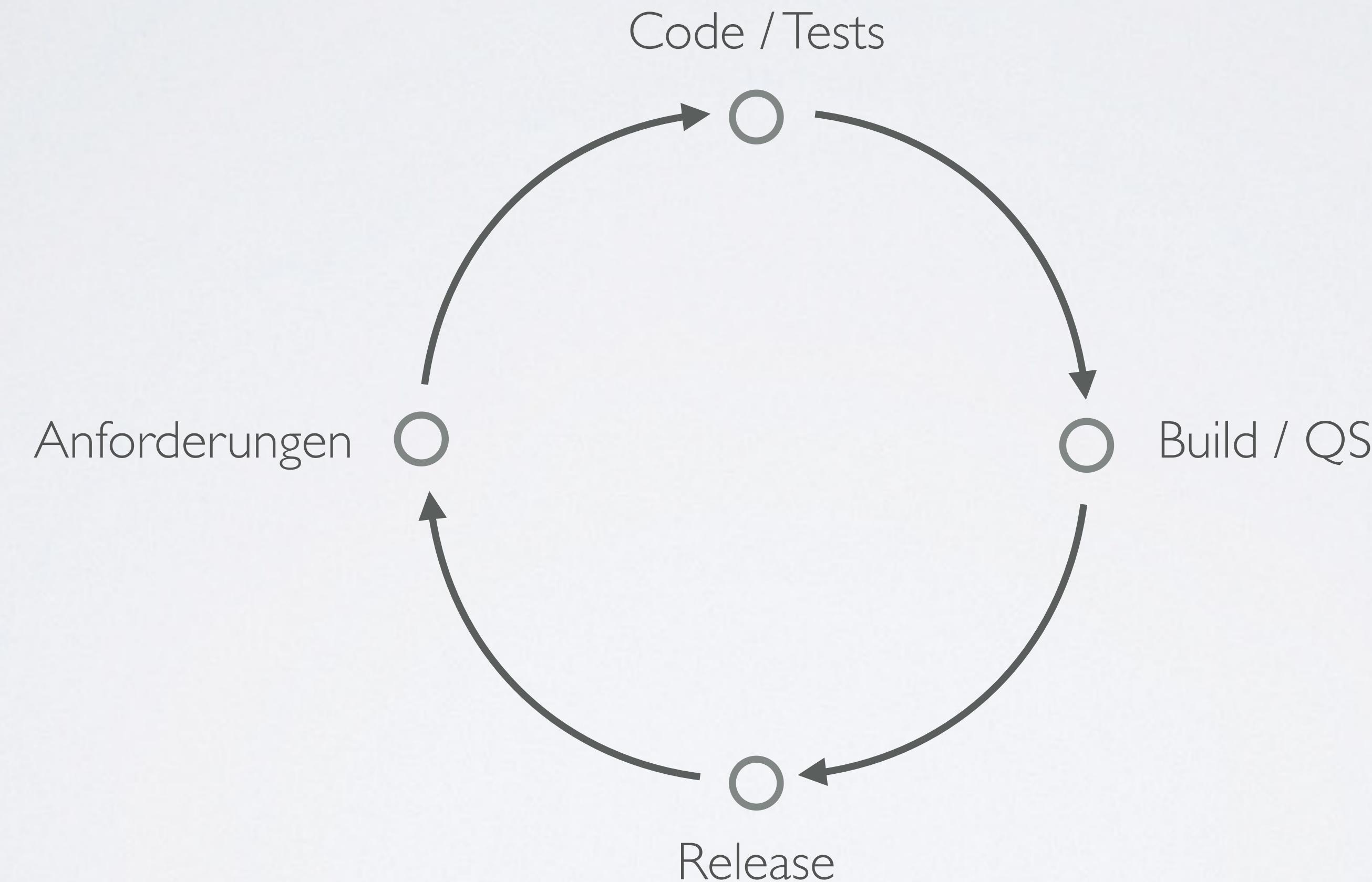
# Tests

# Build

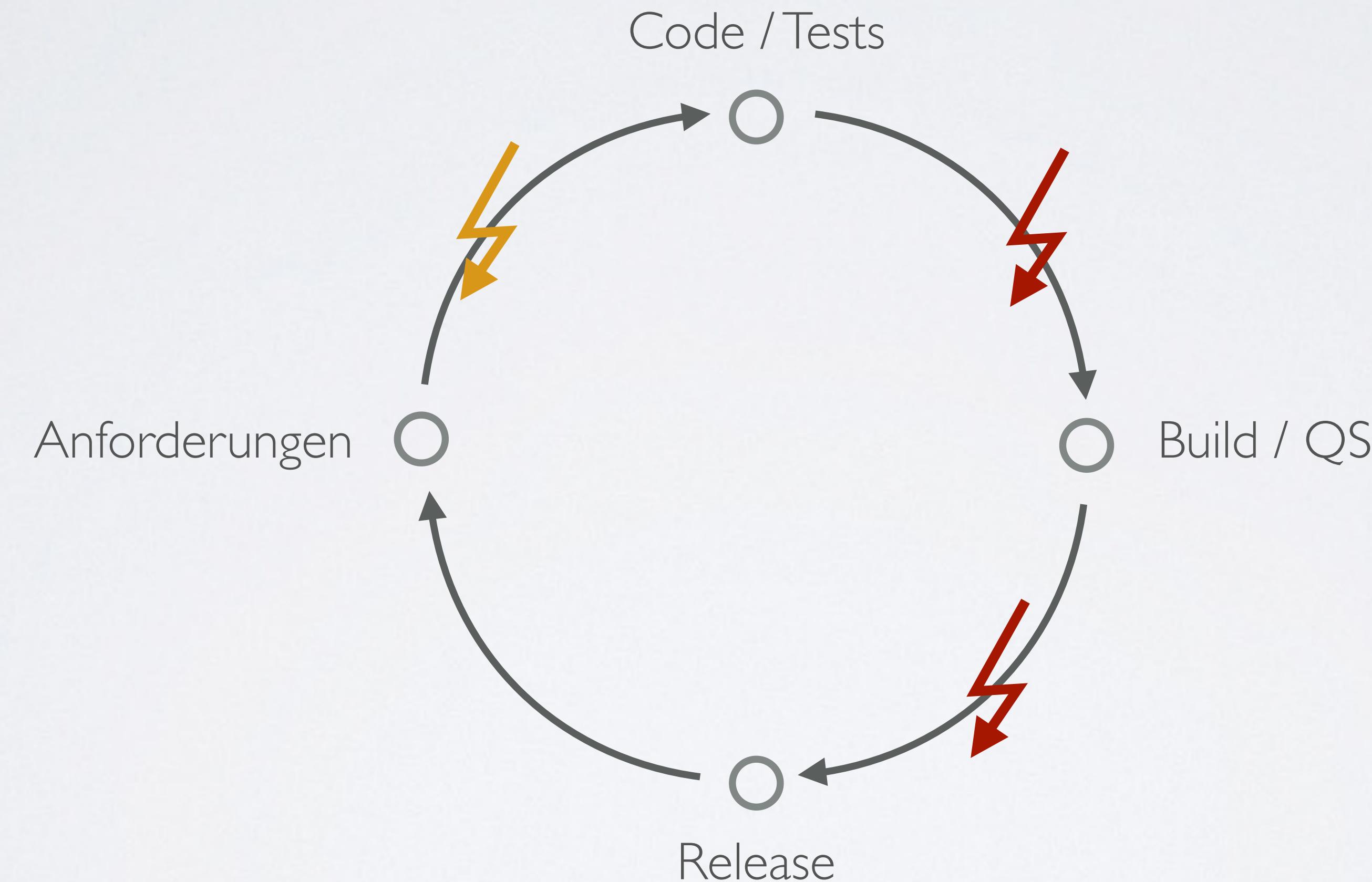
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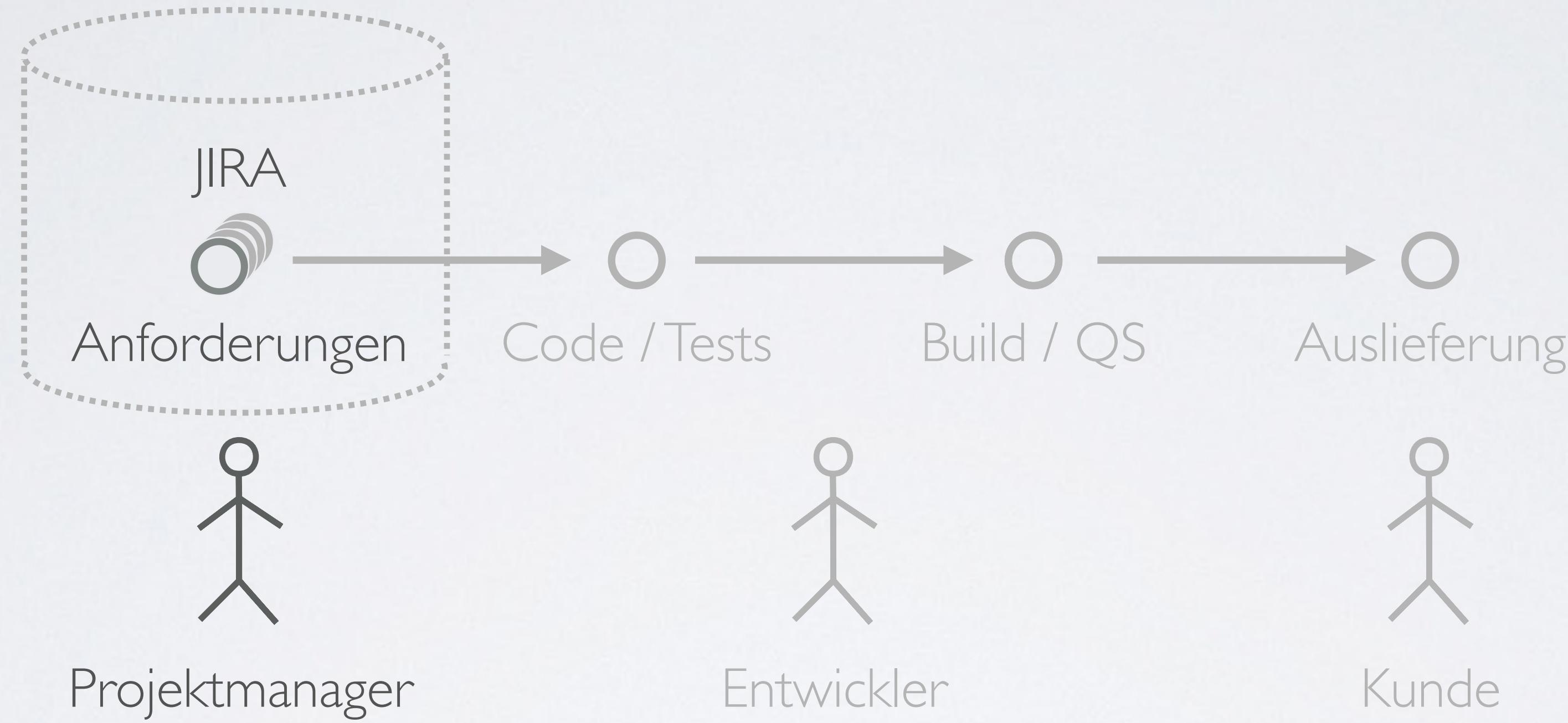


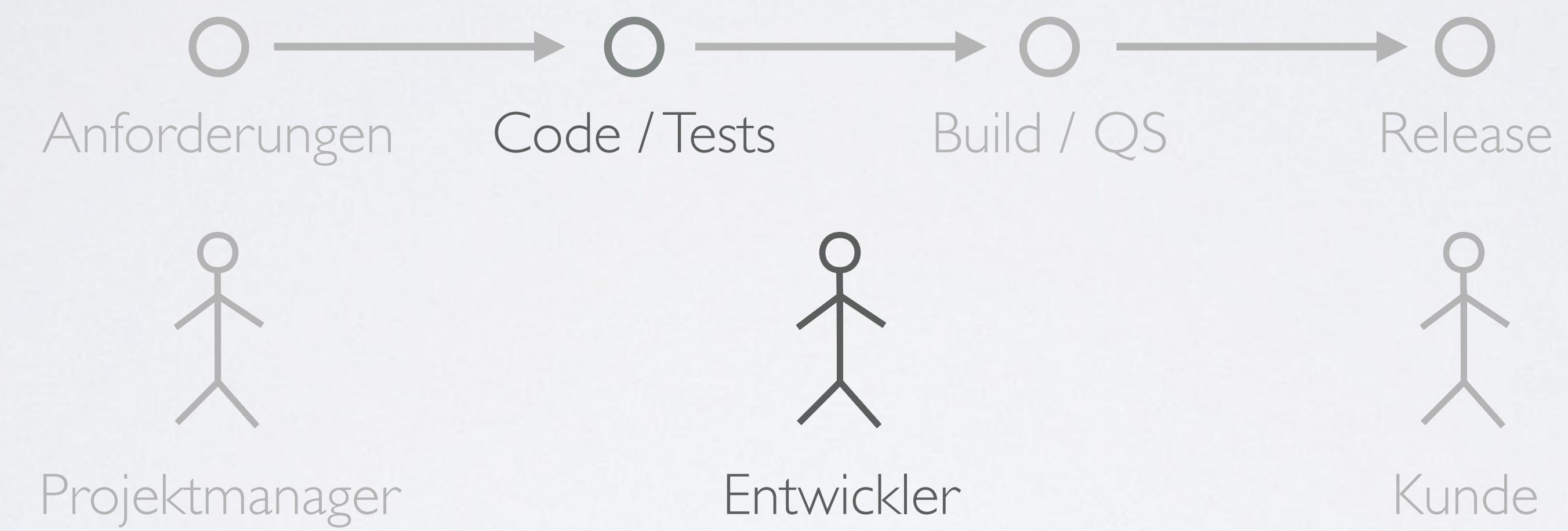
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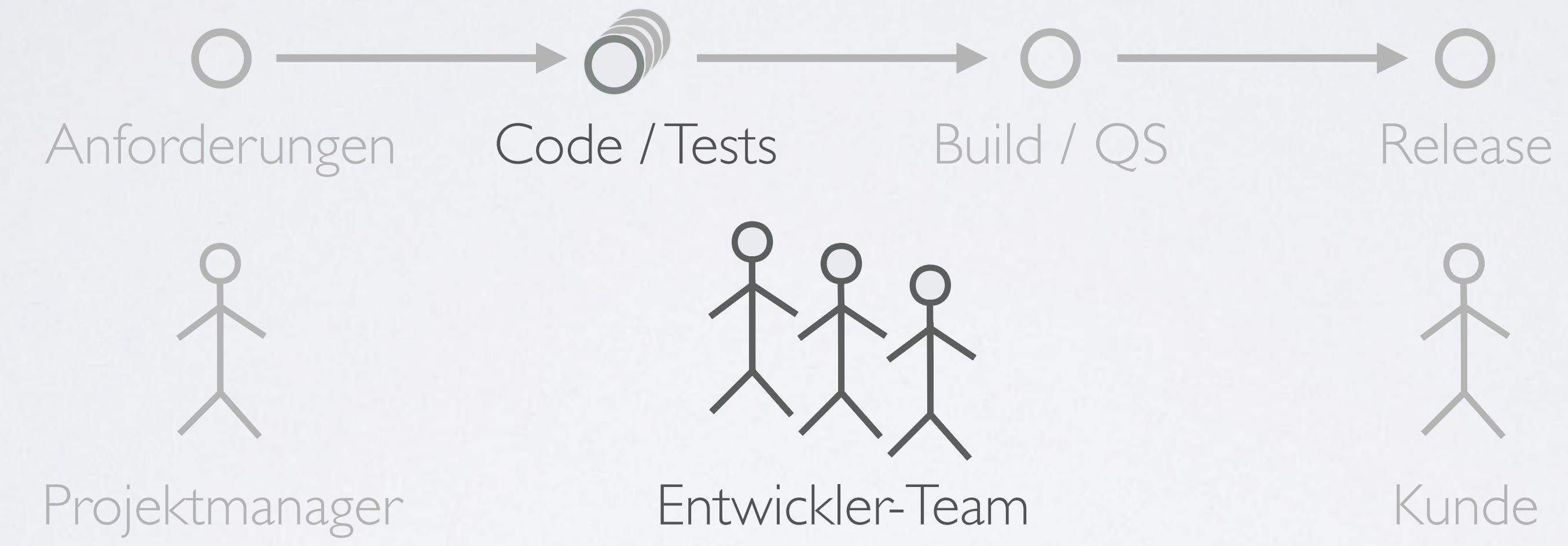




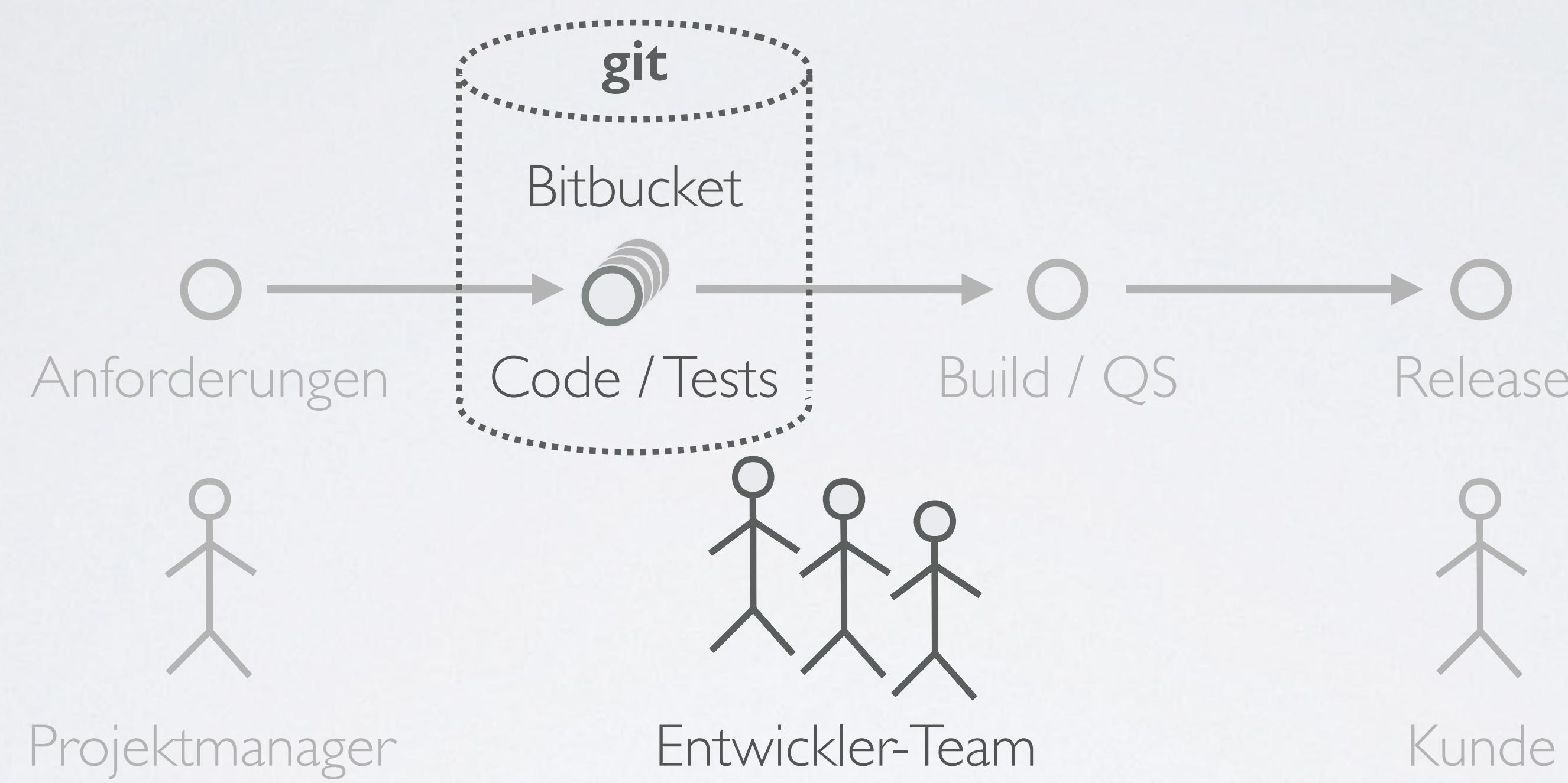
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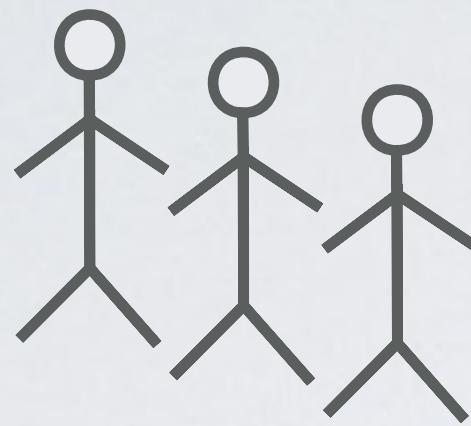




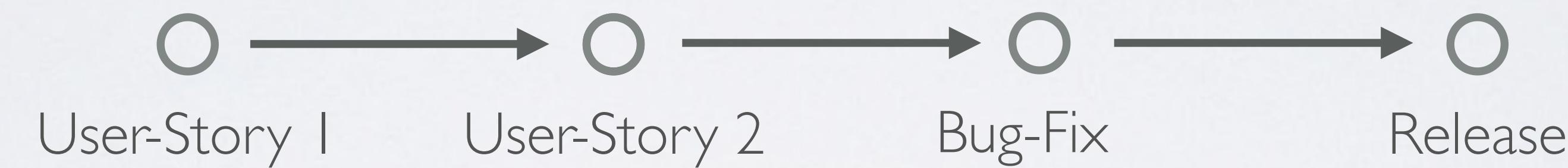


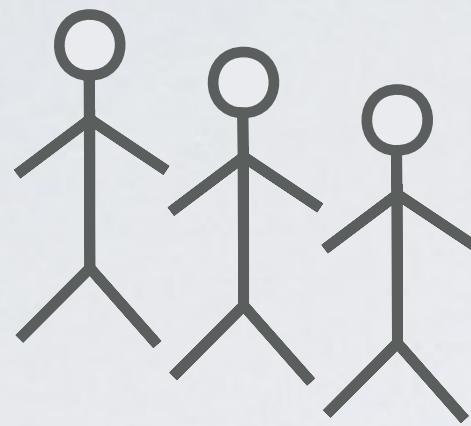
# VERSION CONTROL SYSTEM (VCS)





Entwickler-Team





Entwickler-Team



User-Story 1



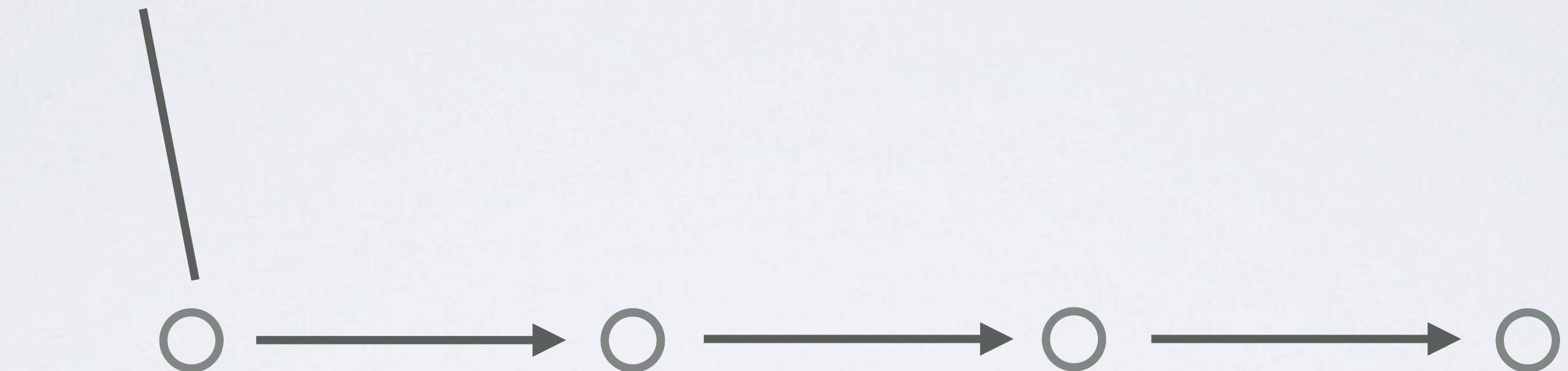
User-Story 2

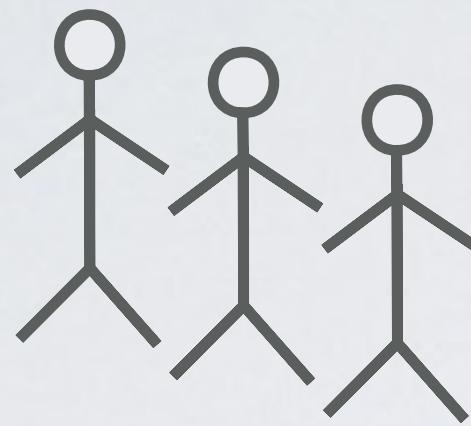


Bug-Fix



Release





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Entwickler-Team



User-Story 1



User-Story 2



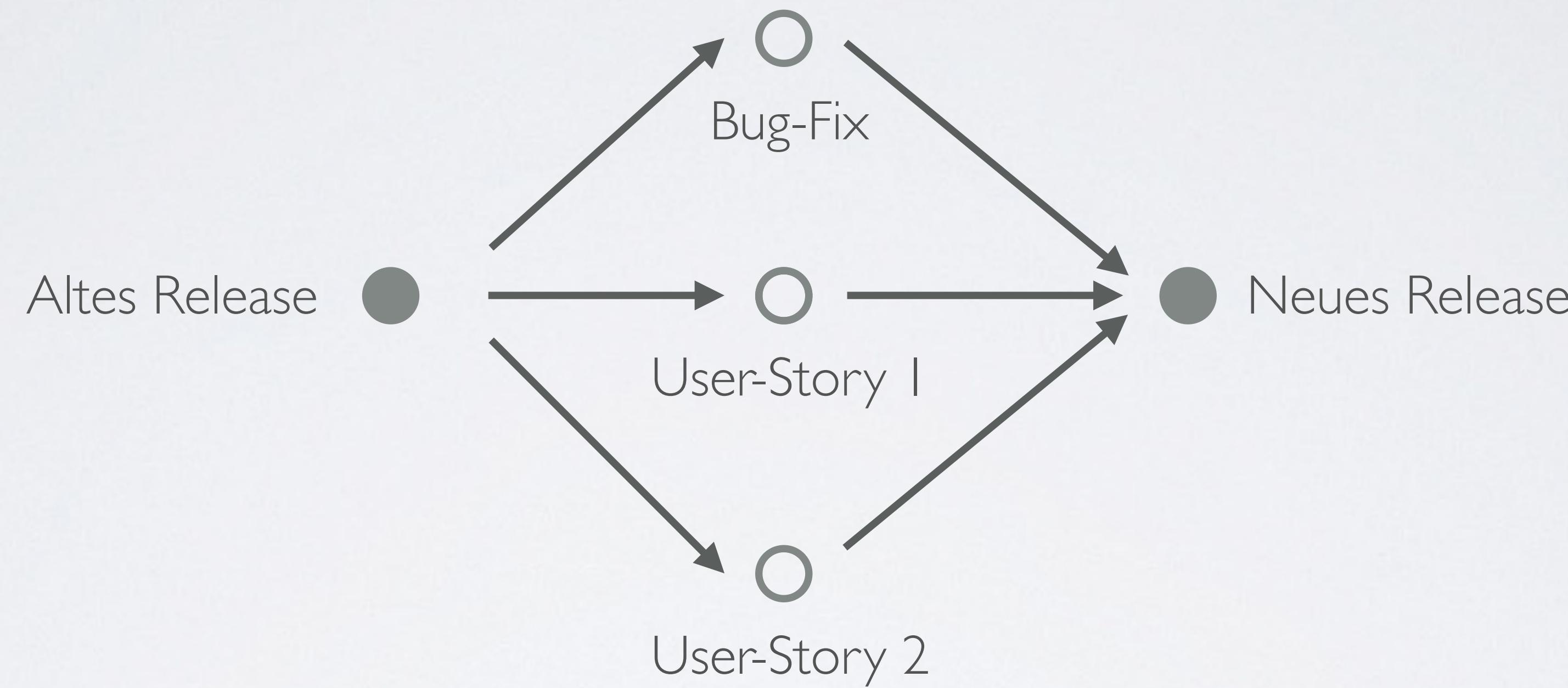
Bug-Fix



Release



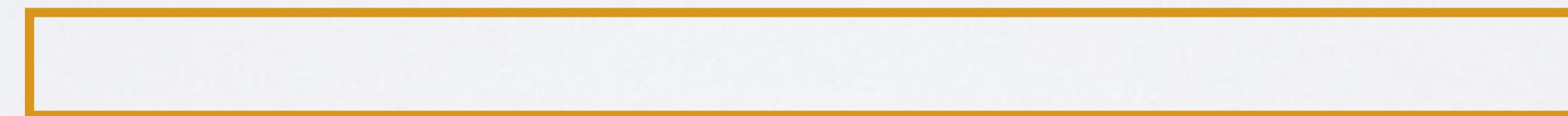
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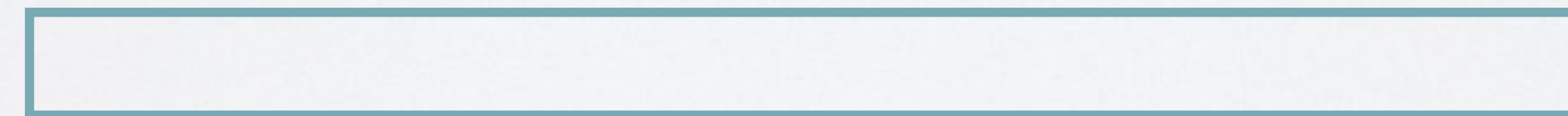


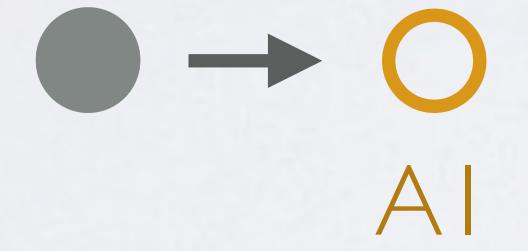
Release

Feature A



Feature B



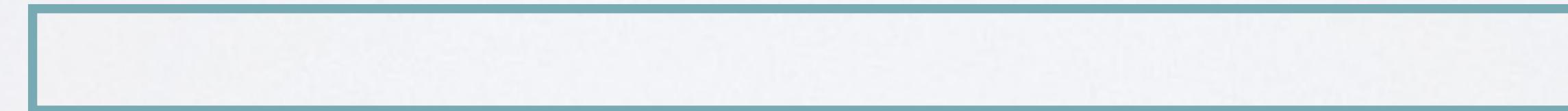


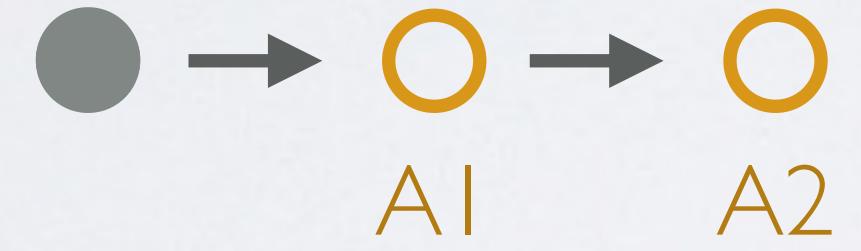
● Release

Feature A



Feature B



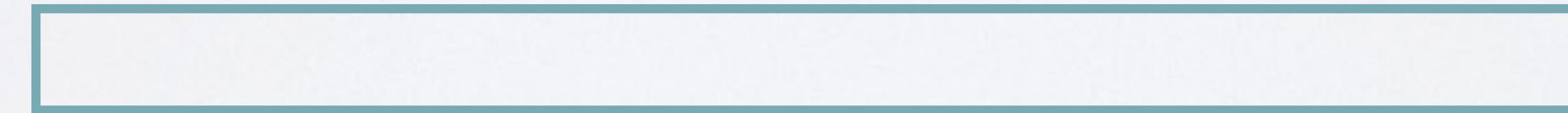


Release

Feature A



Feature B



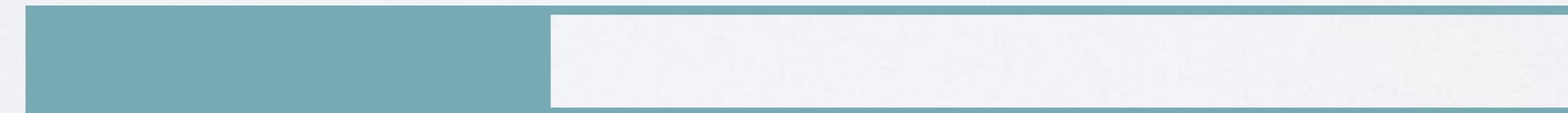


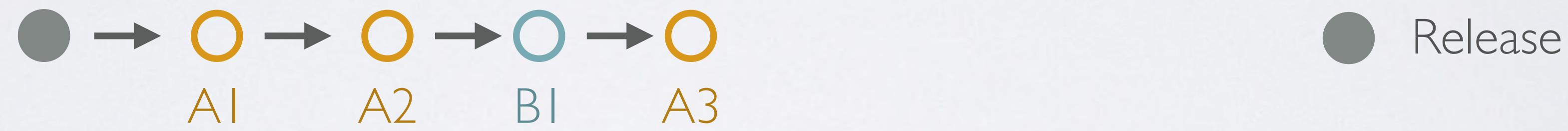
Release

Feature A



Feature B

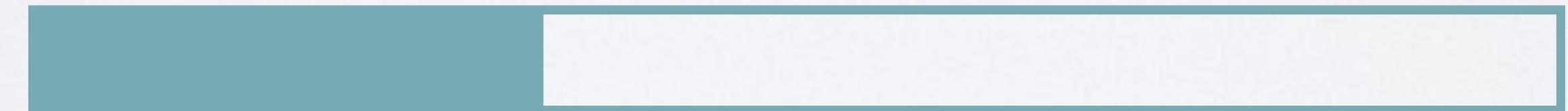


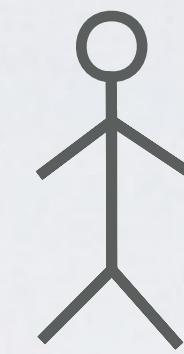


Feature A



Feature B





Kunde

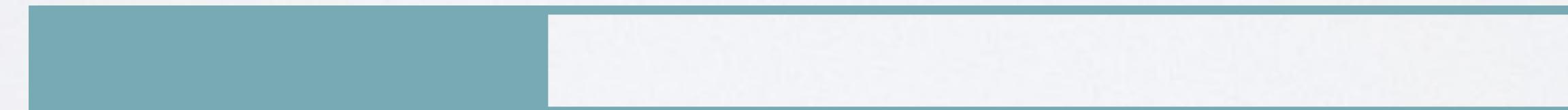


Release

Feature A



Feature B





Kunde

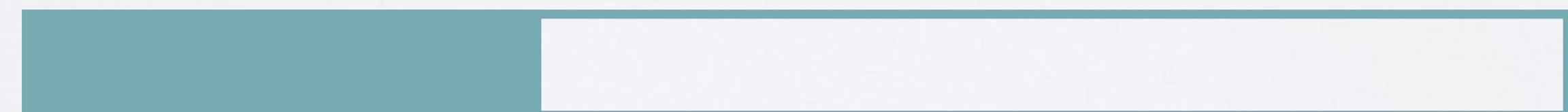


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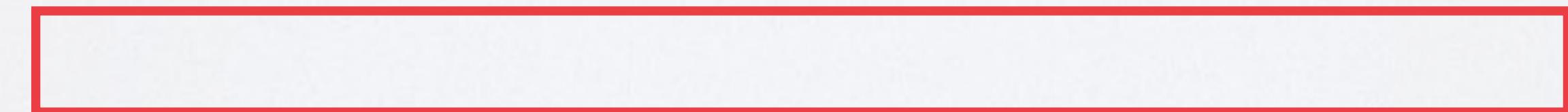
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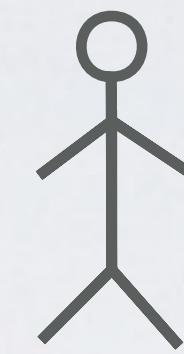


Feature B



Firelane F





Kunde

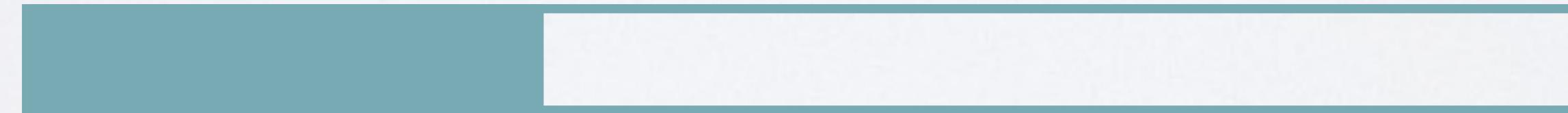


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Feature A

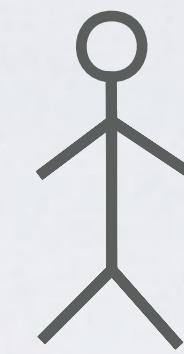


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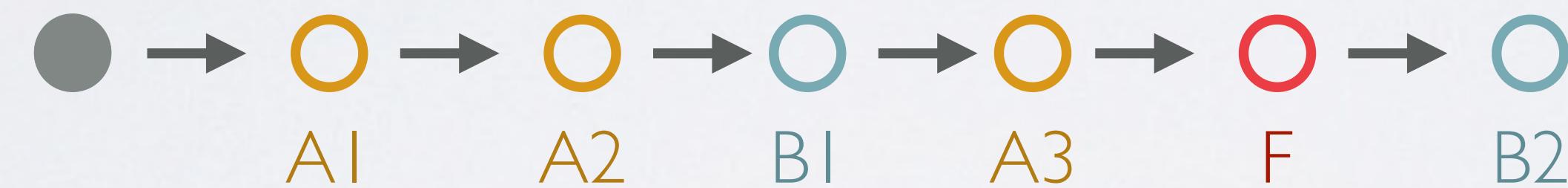


Firelane F





Kunde

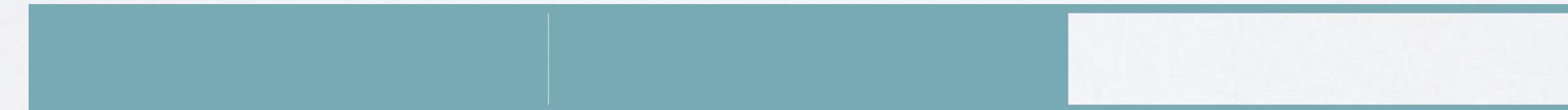


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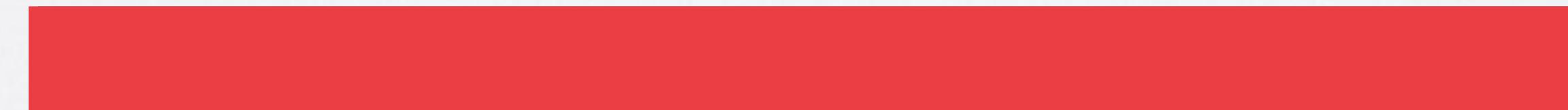
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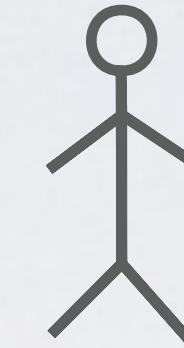


Feature B



Firelane F





Kunde



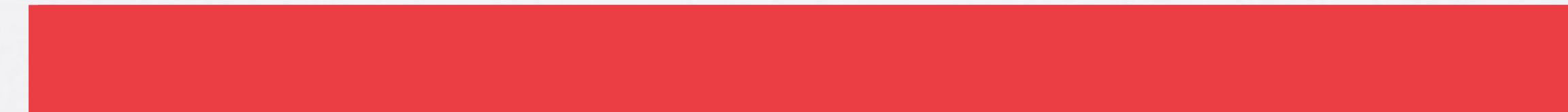
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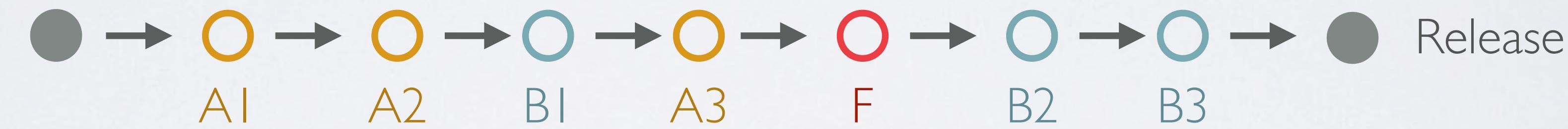


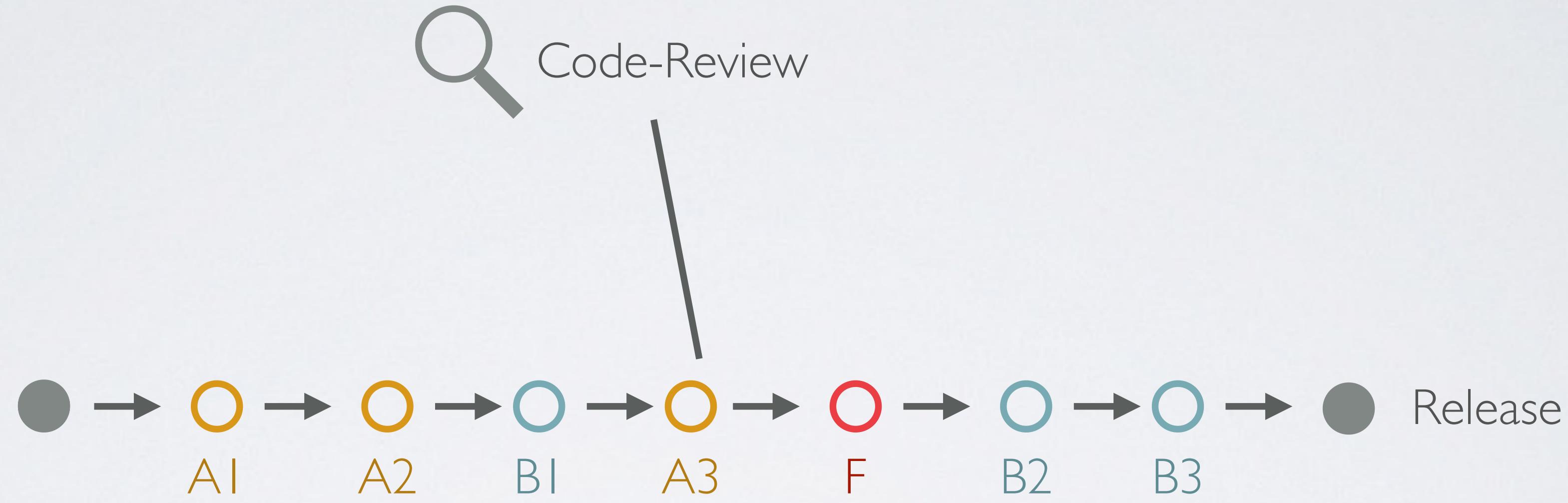
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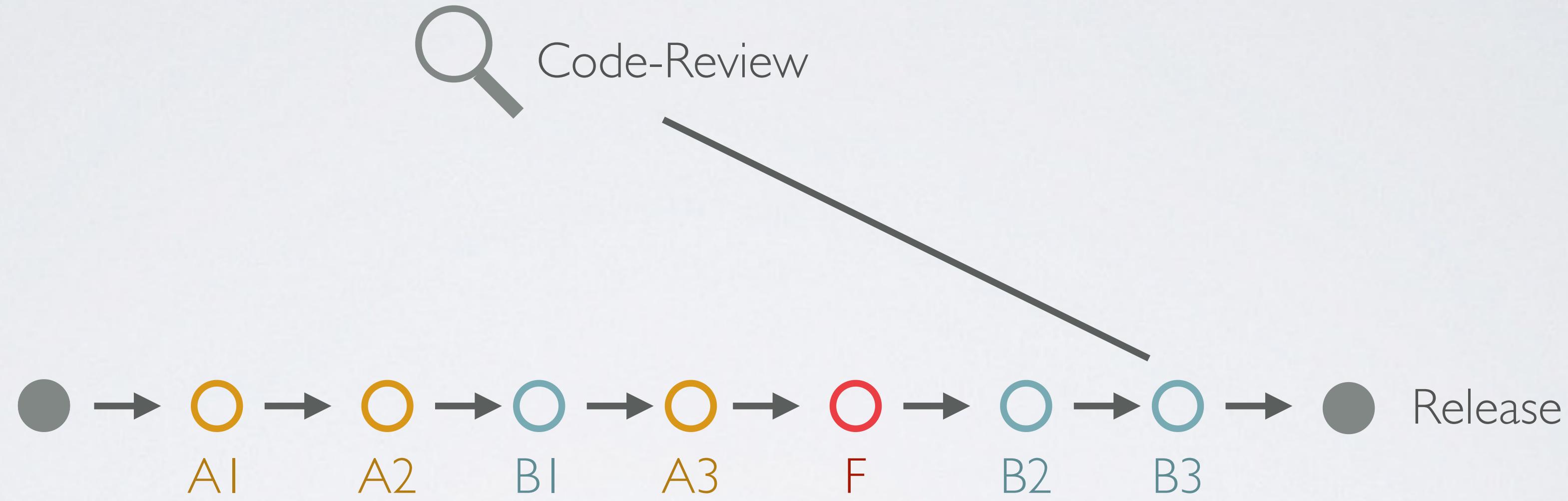


Firelane F









Code-Review

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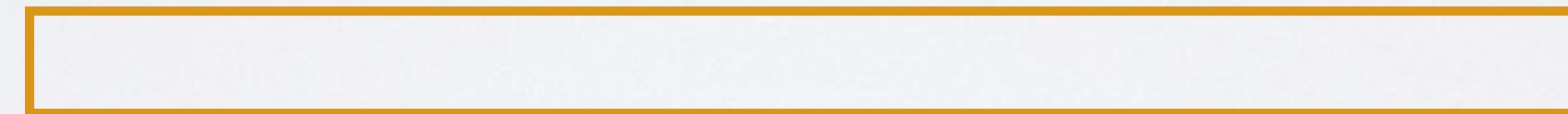


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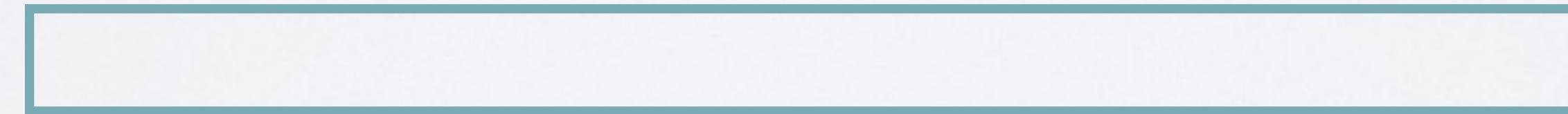
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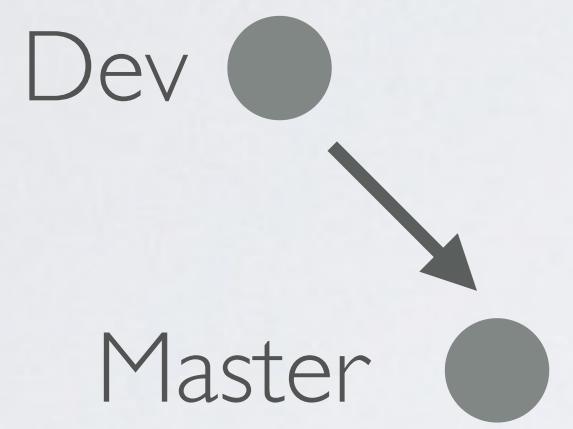


Feature A



Feature B

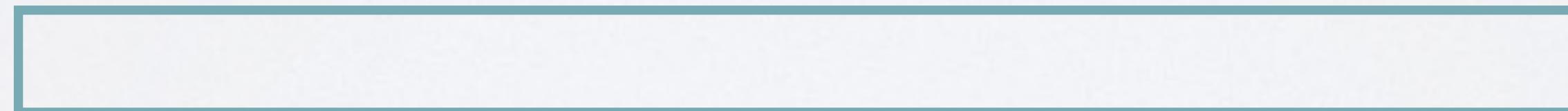


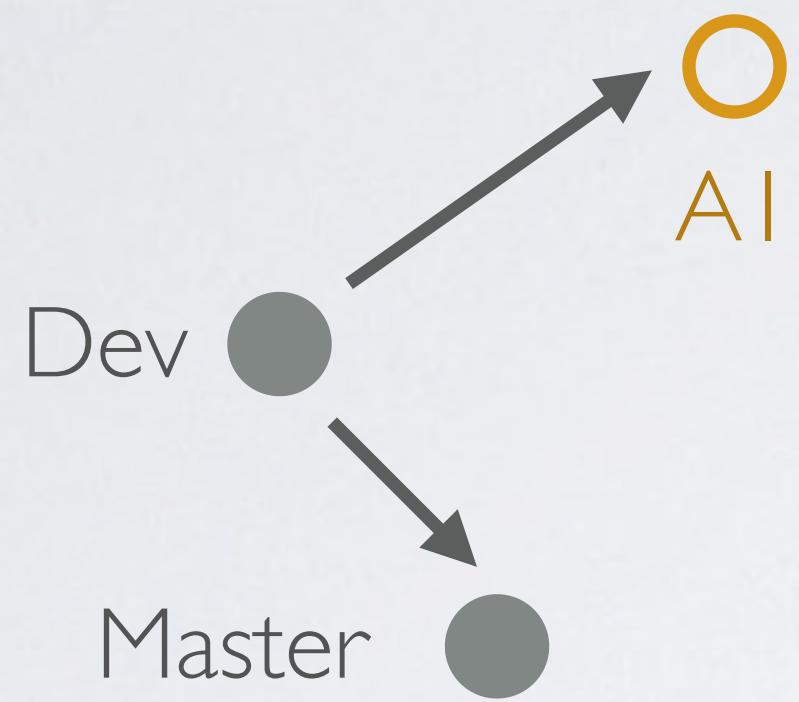


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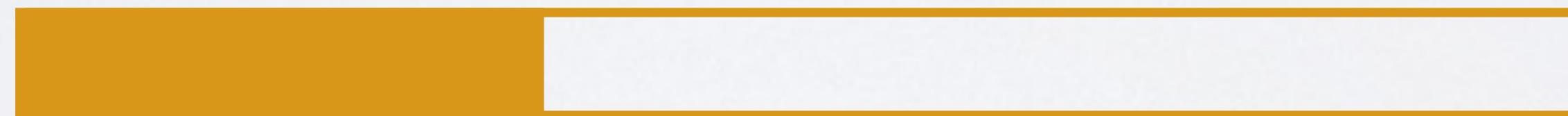


Feature B

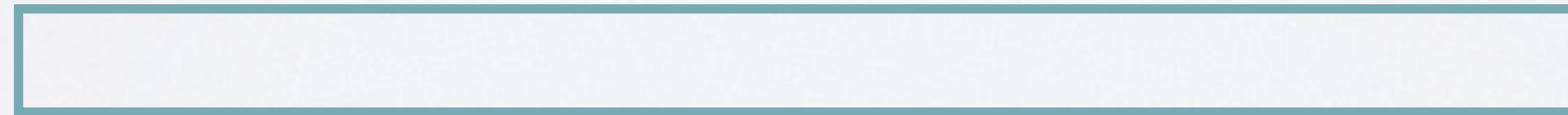


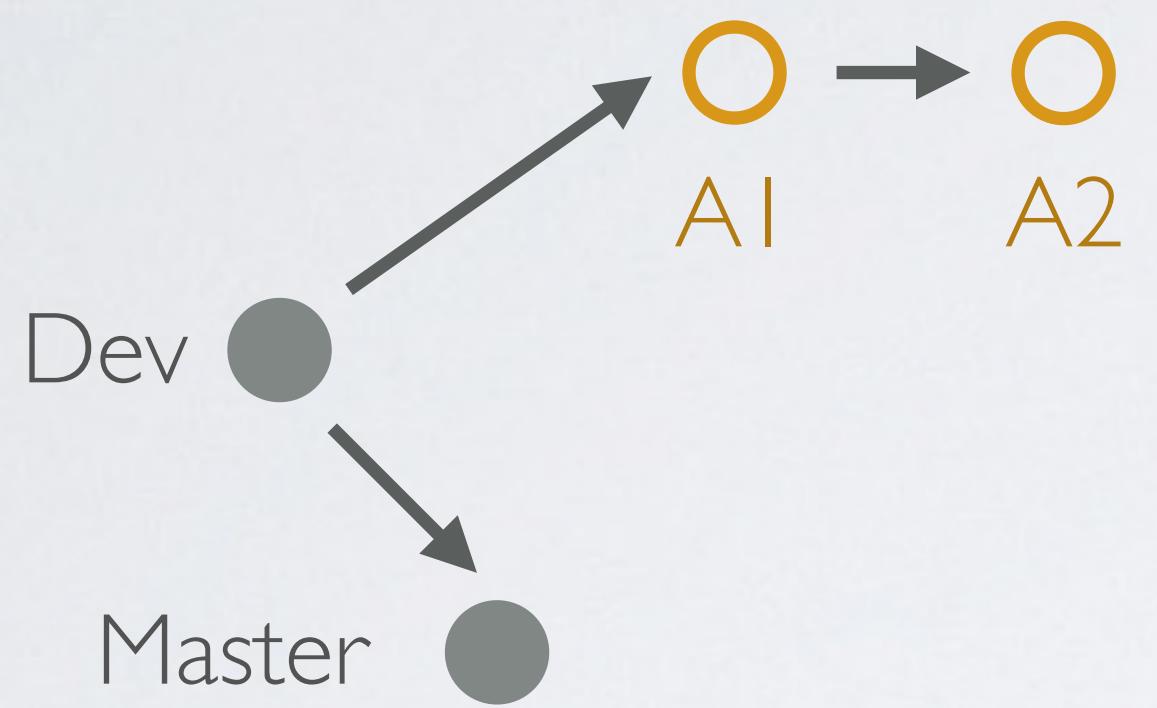


Feature A



Feature B

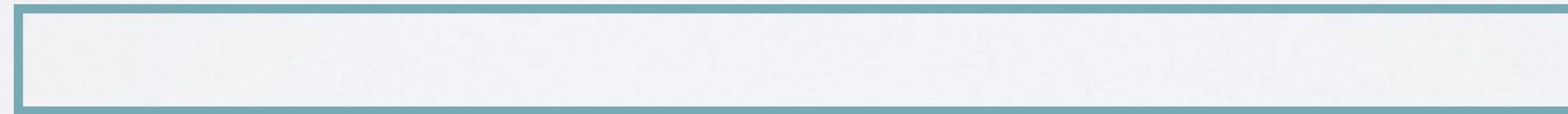


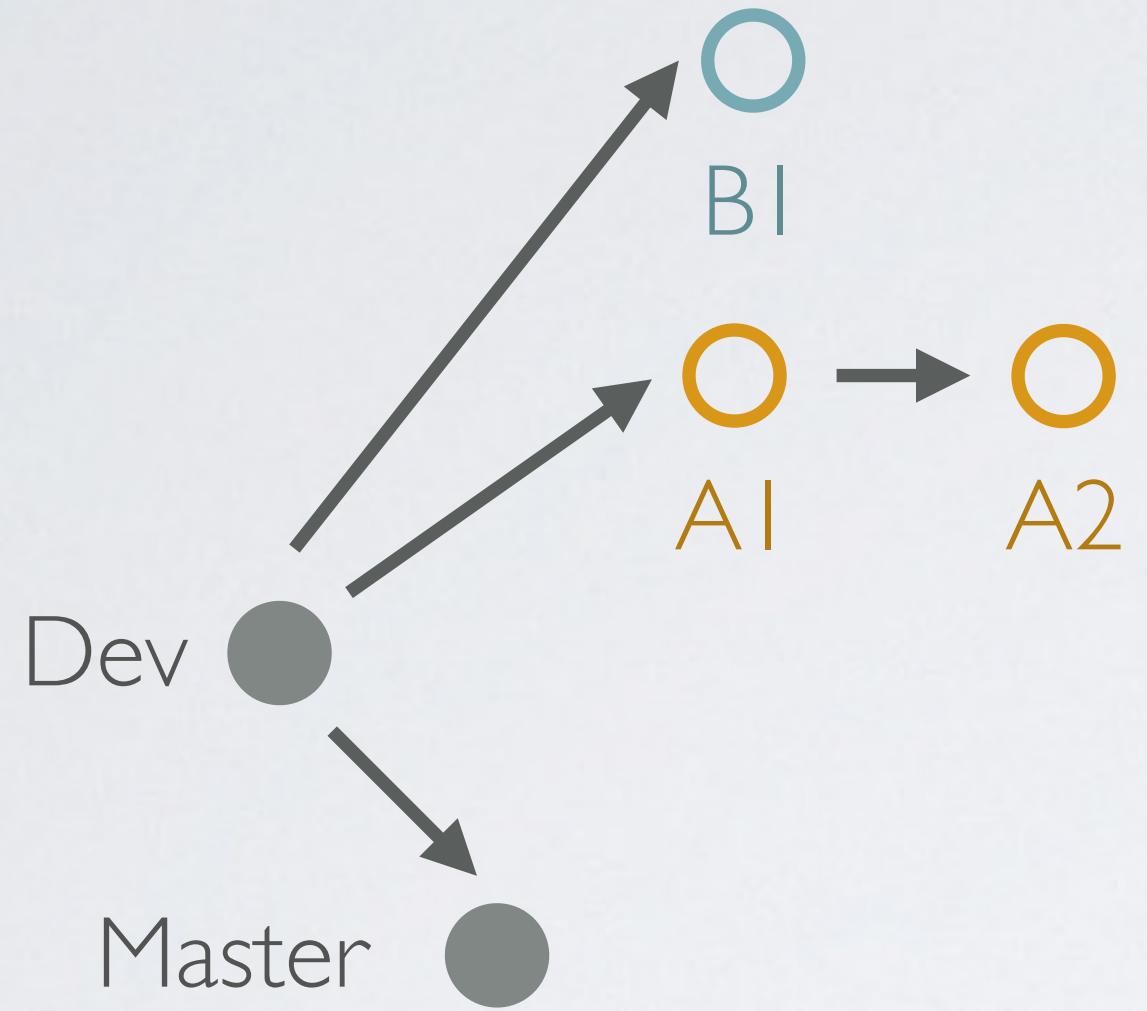


Feature A



Feature B

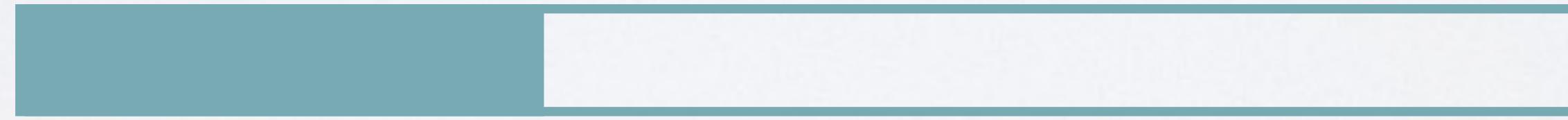


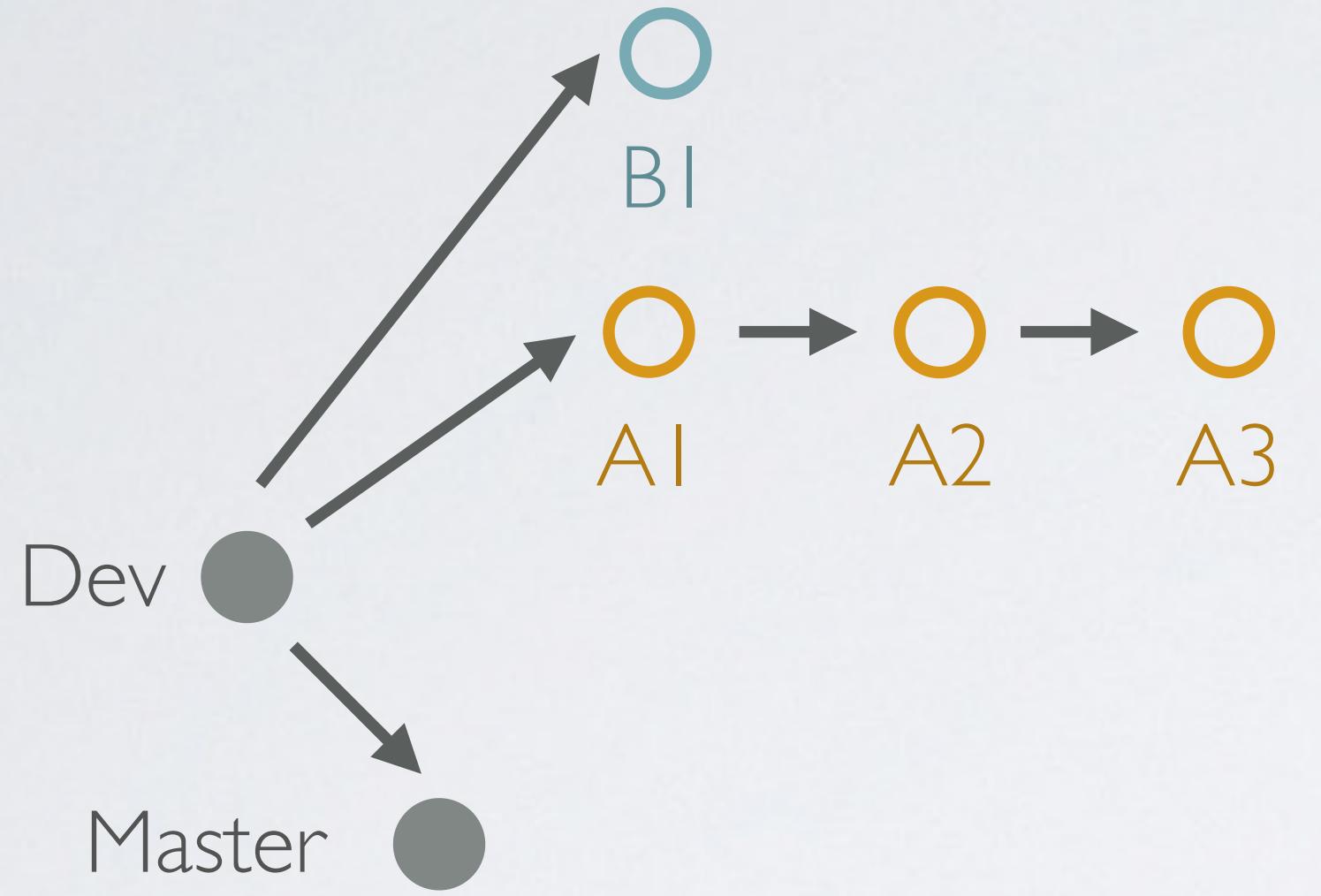


Feature A



Feature B

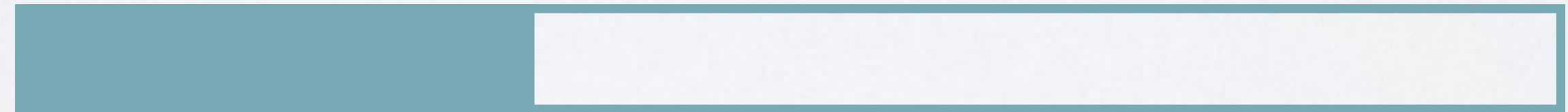


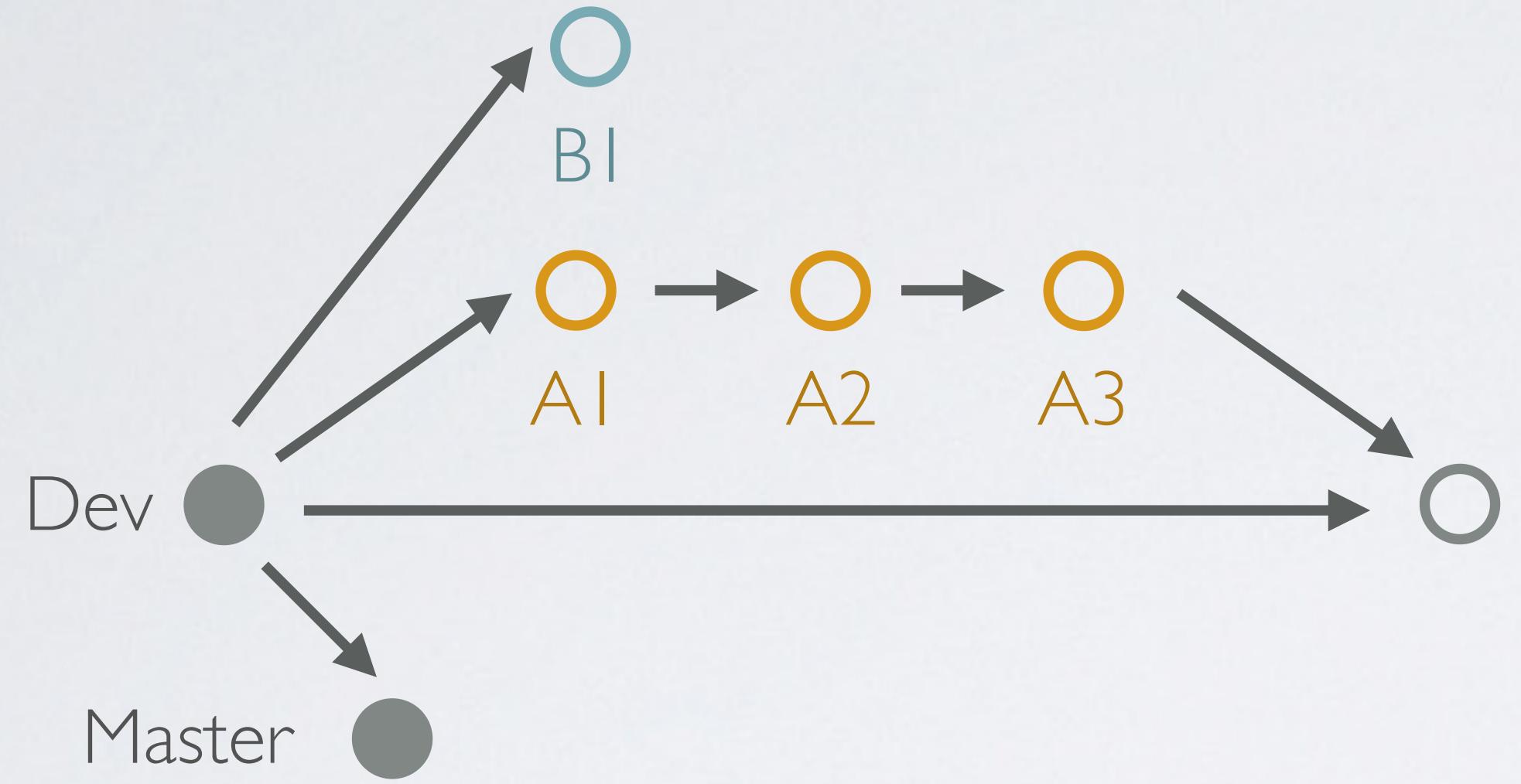


Feature A



Feature B

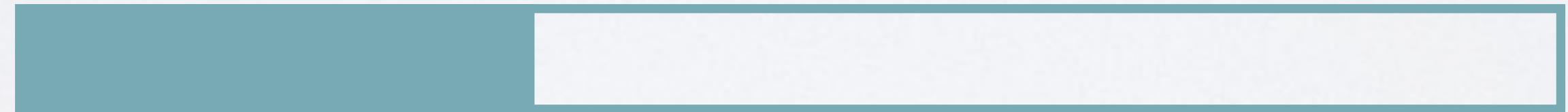


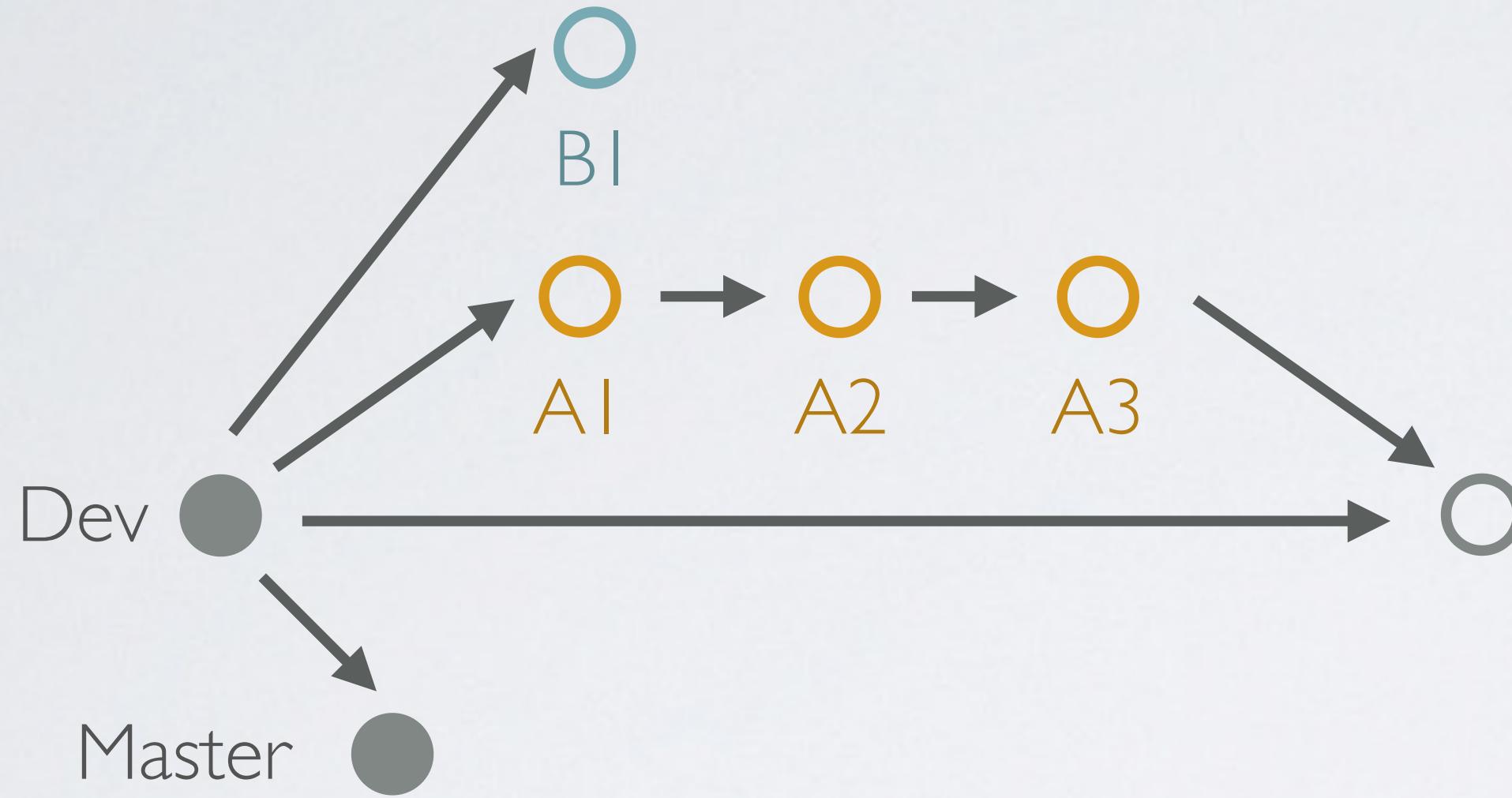


Feature A



Feature B

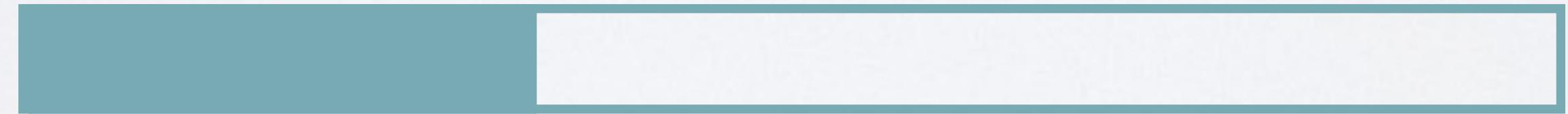




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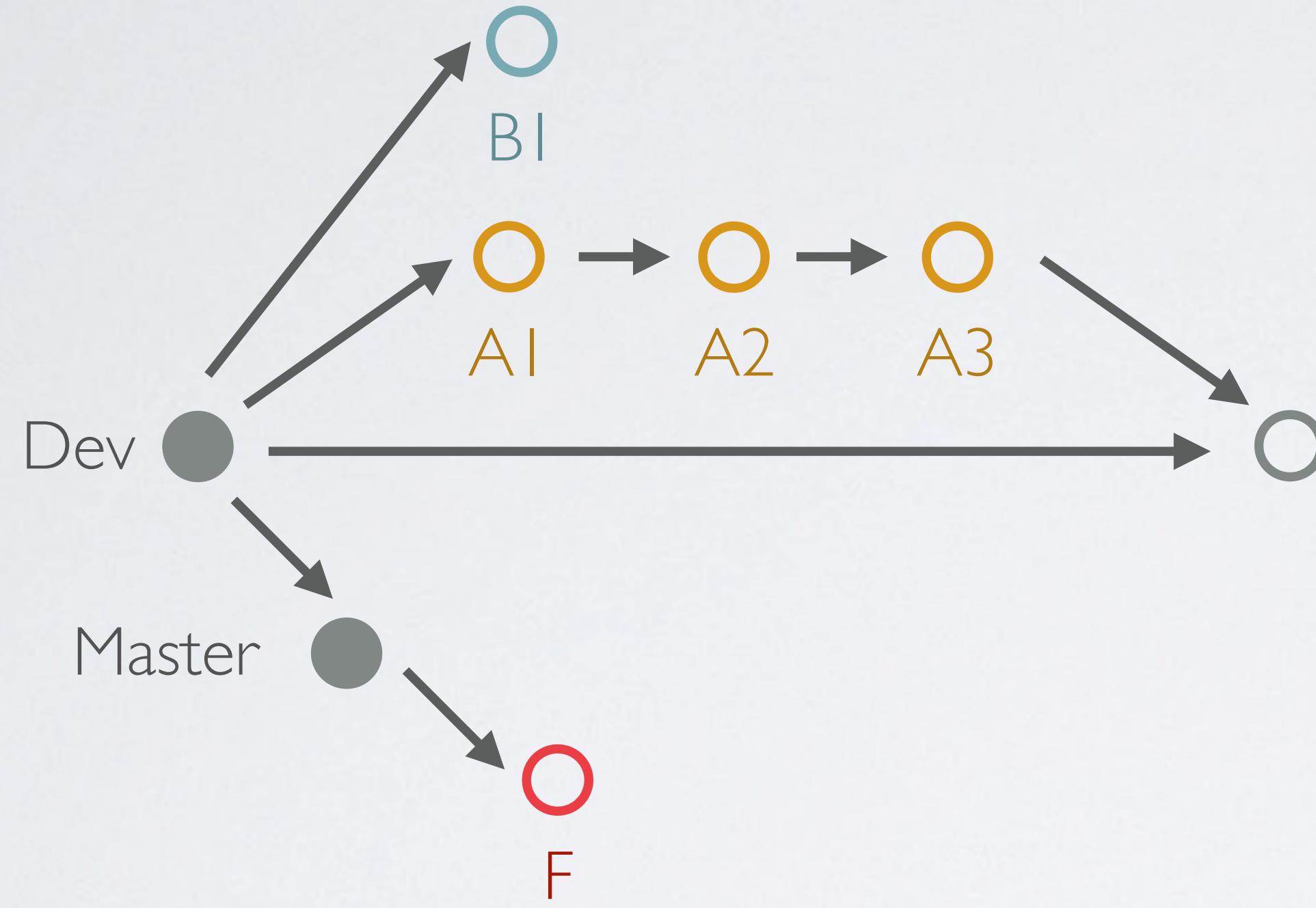


Feature B



Firelane F

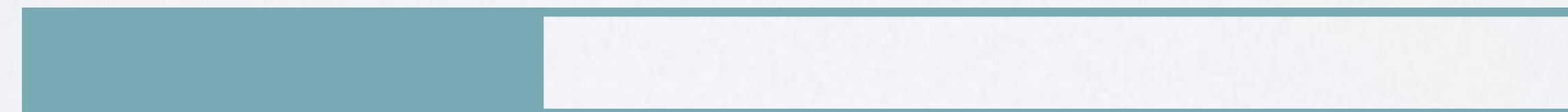




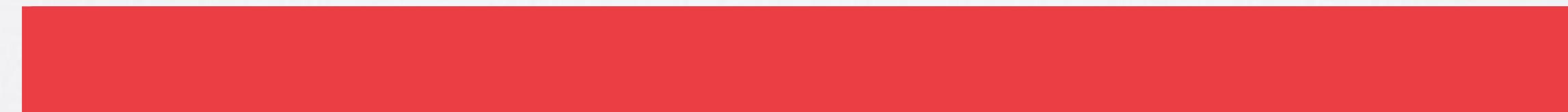
Feature A



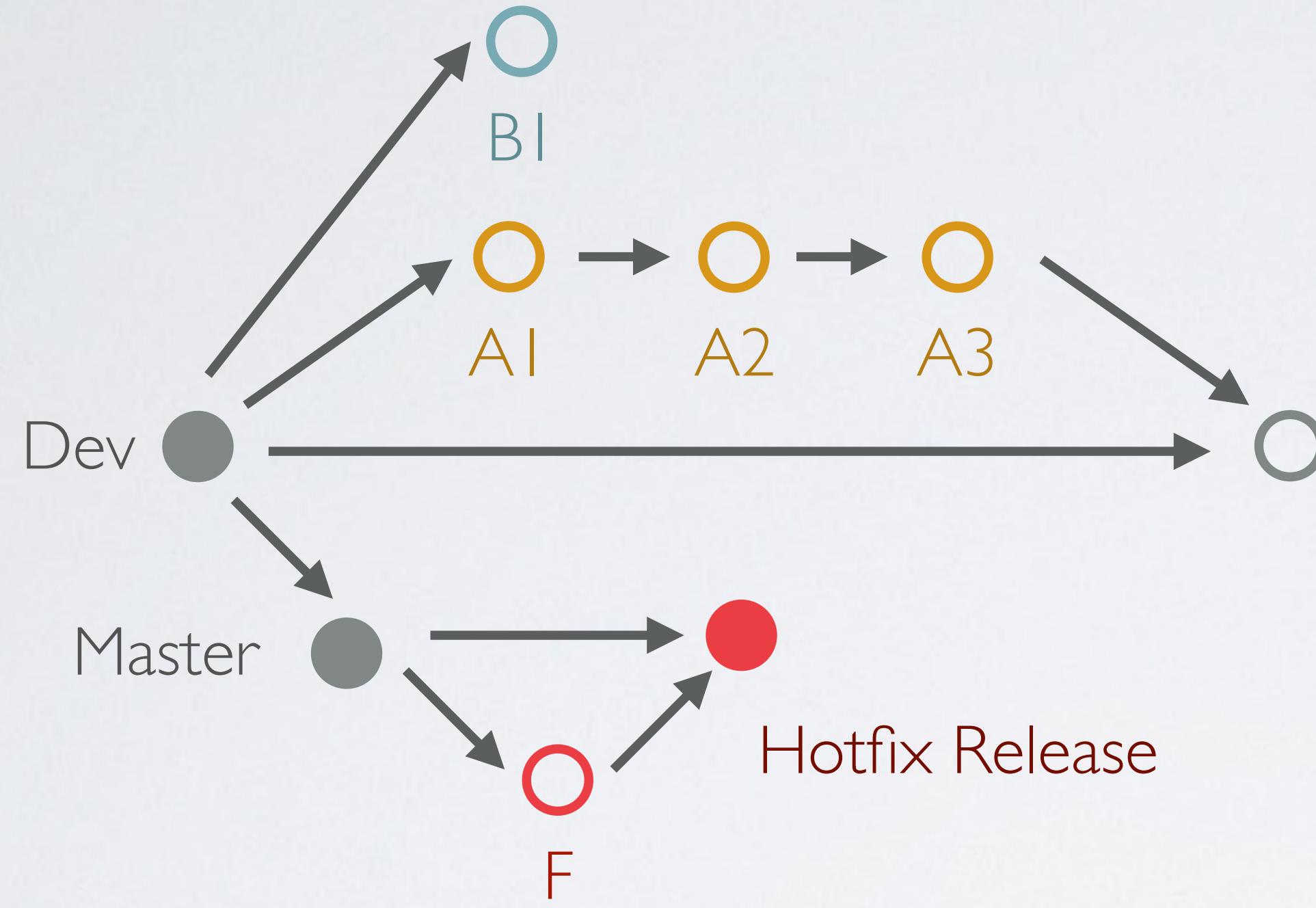
Feature B



Firelane F



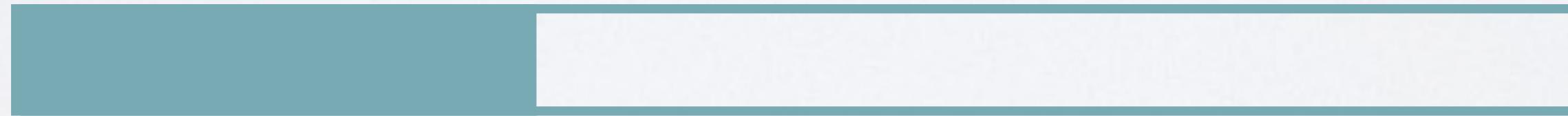
Kunde



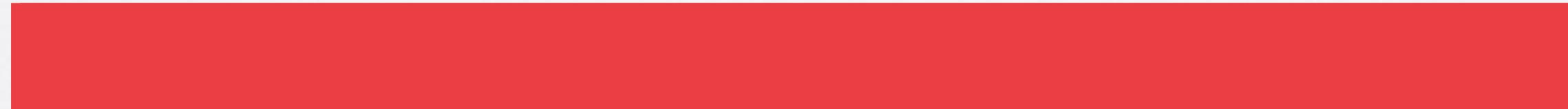
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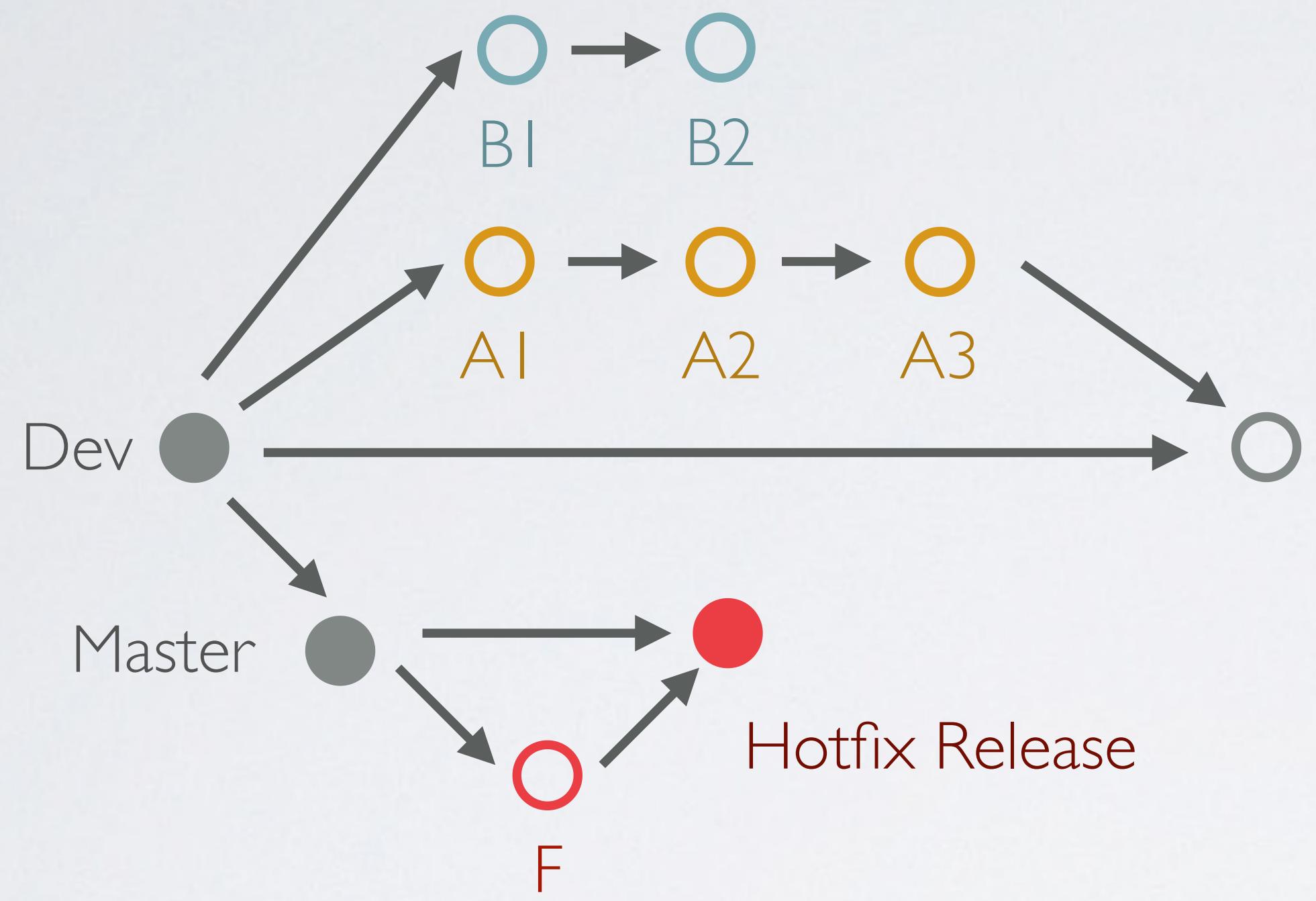


Feature B



Firelane F





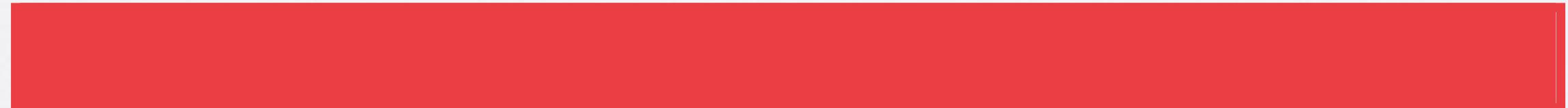
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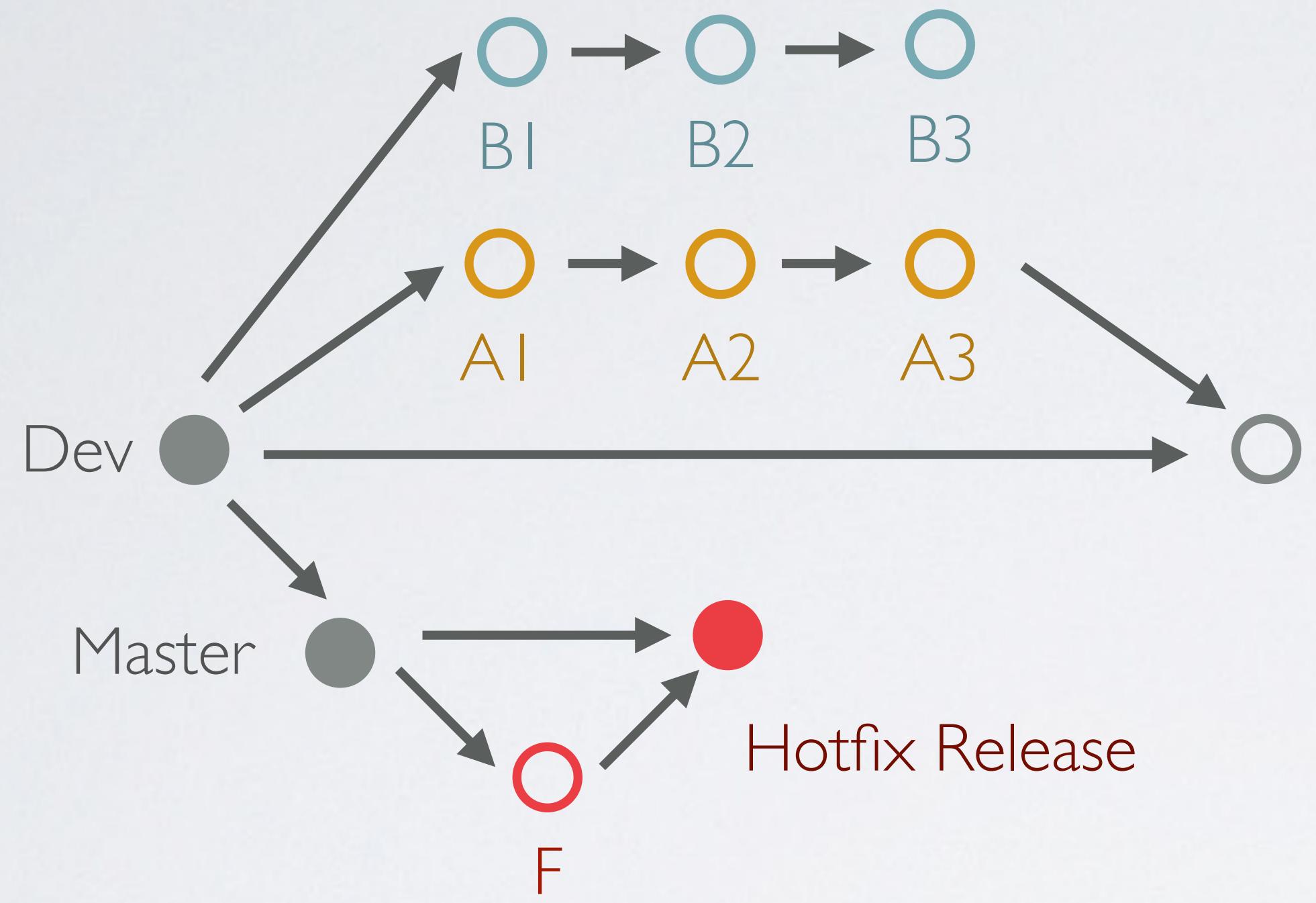


Feature B



Firelane F





Feature A

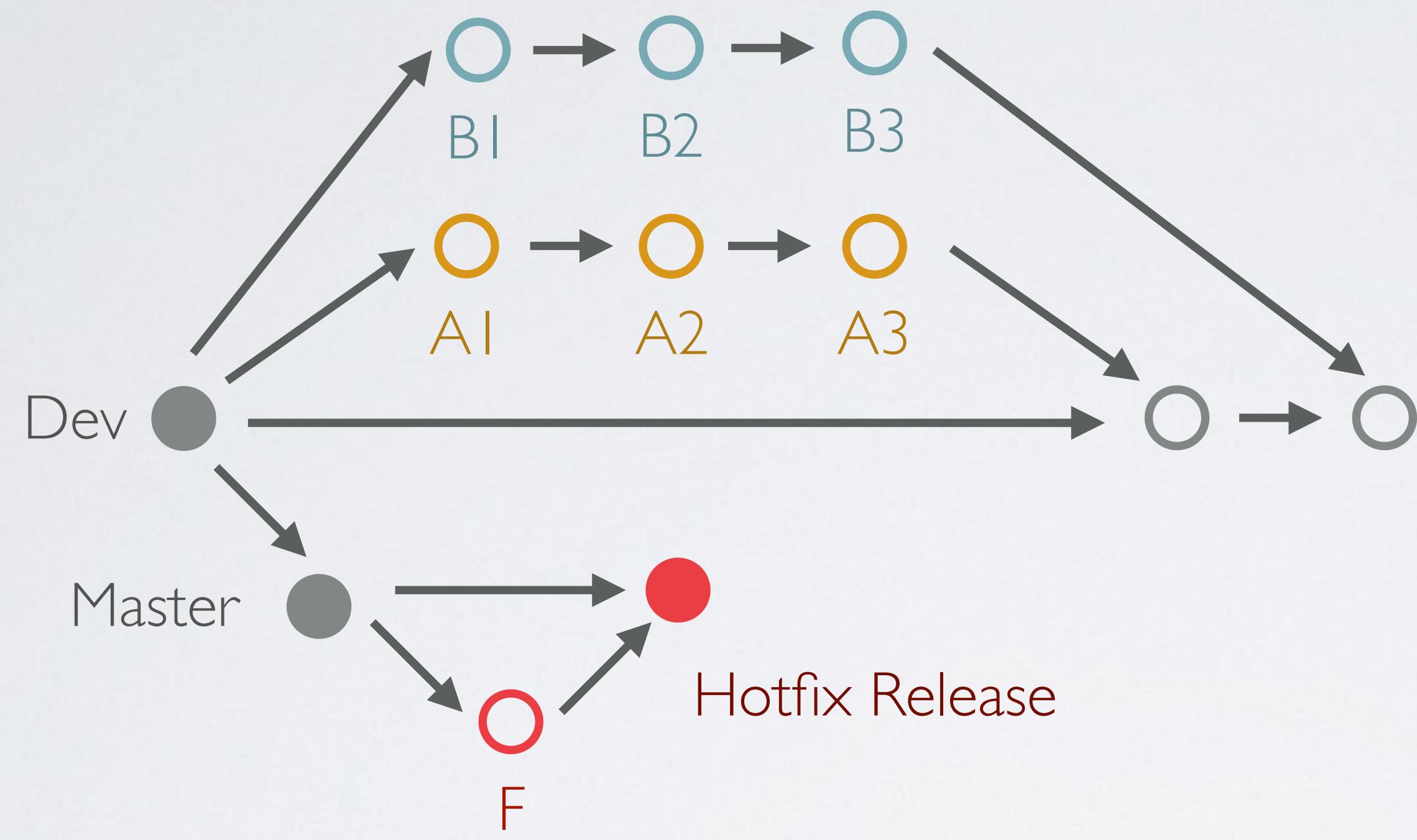


Feature B



Firelane F

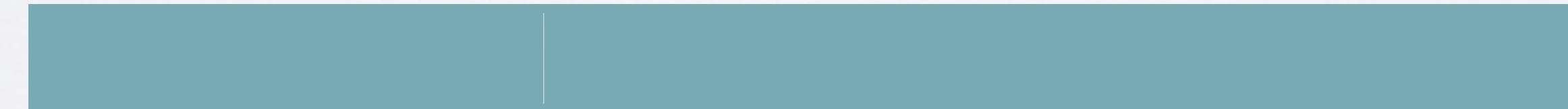




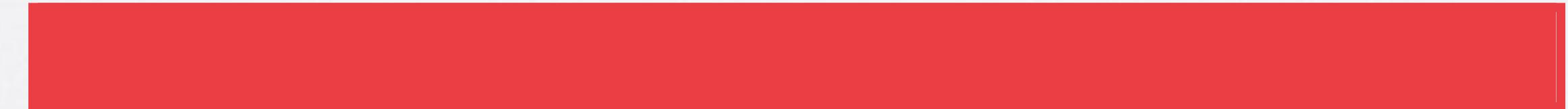
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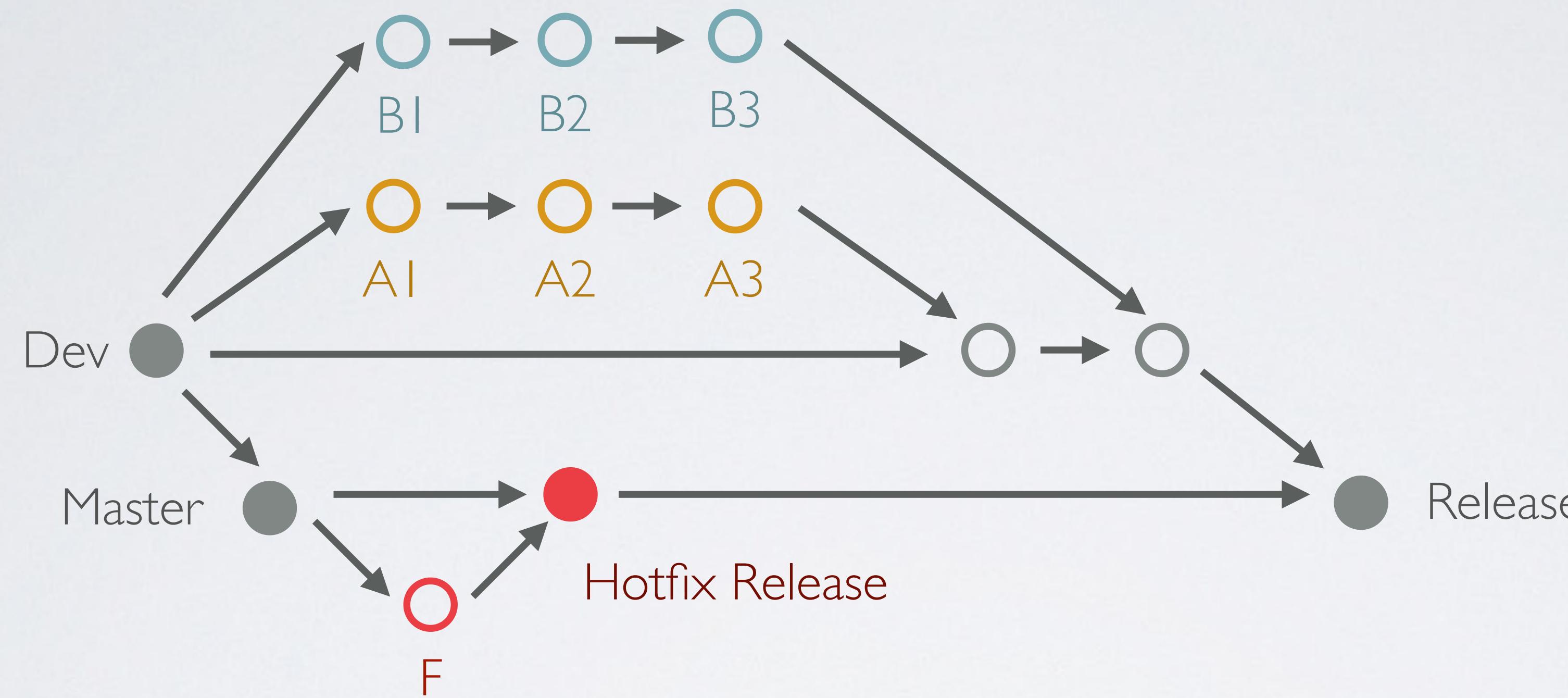


Feature B



Firelane F





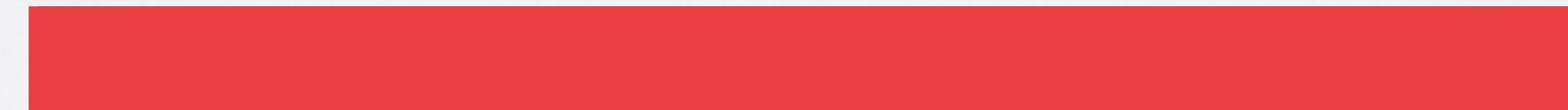
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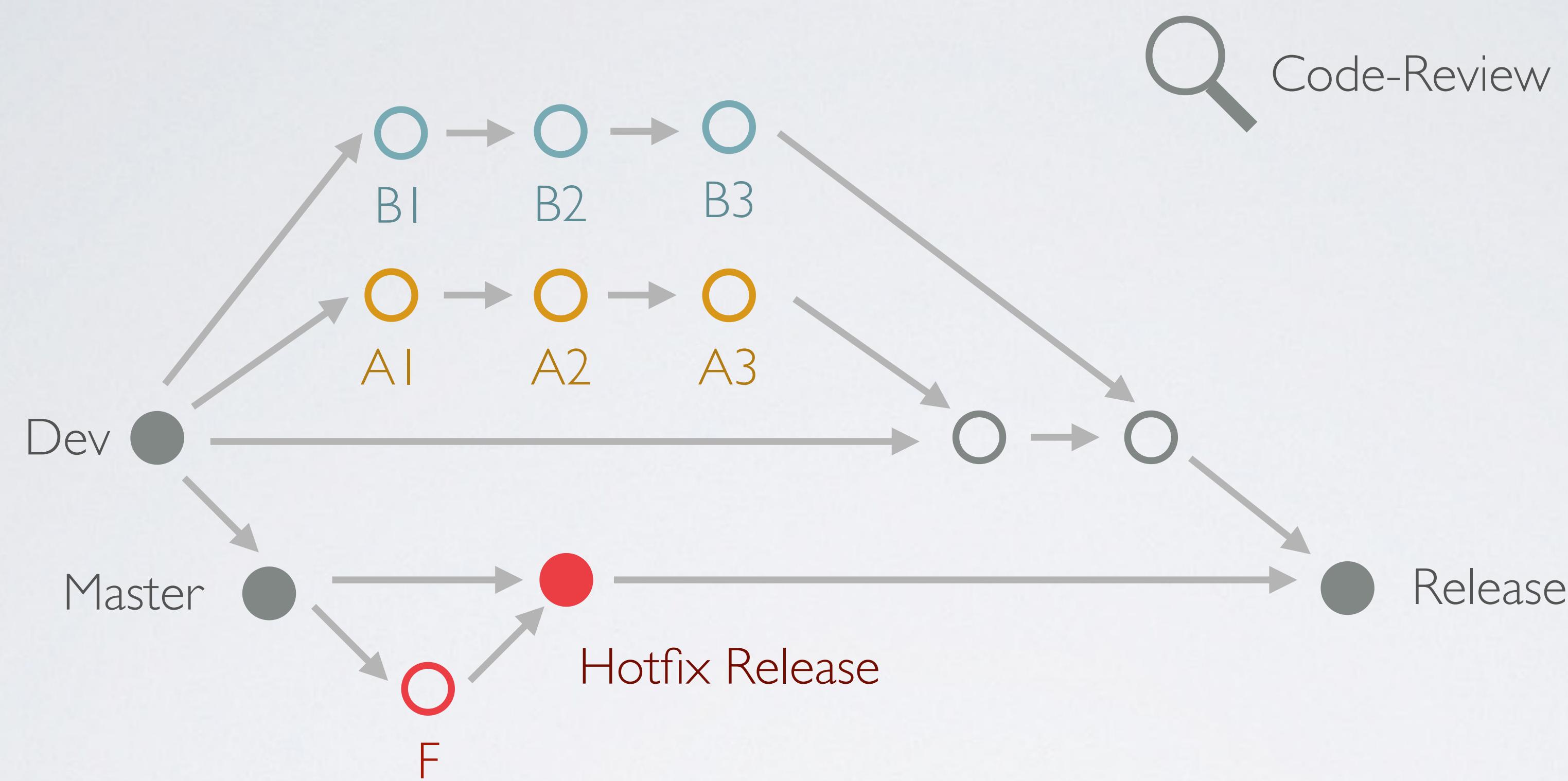


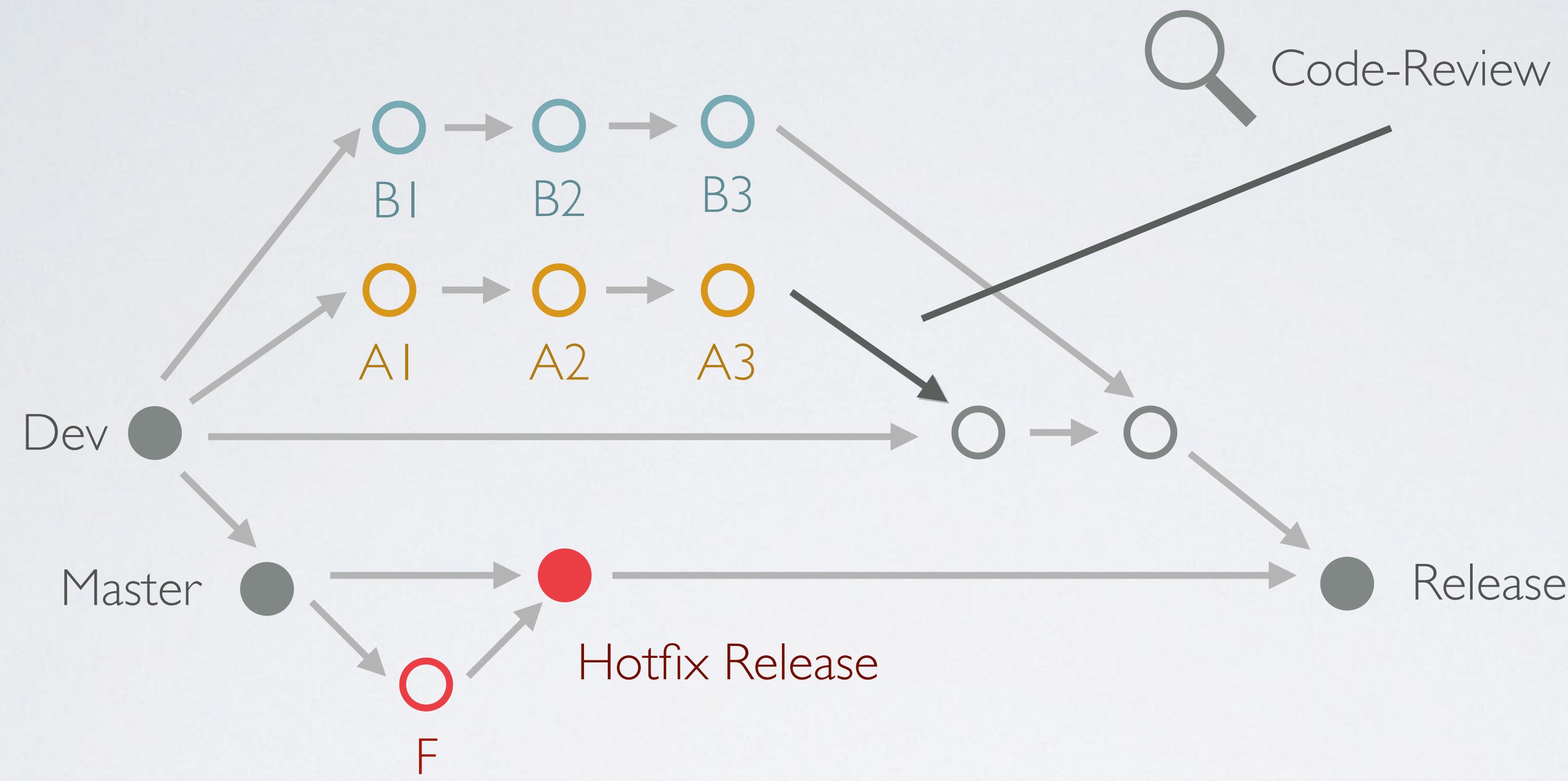
Feature B



Firelane F





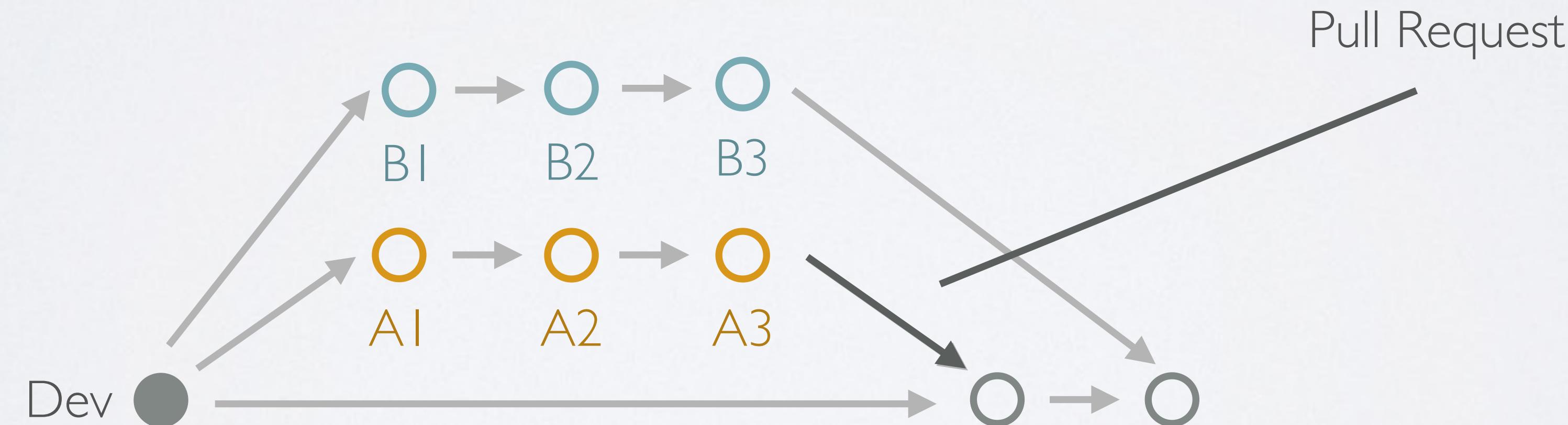


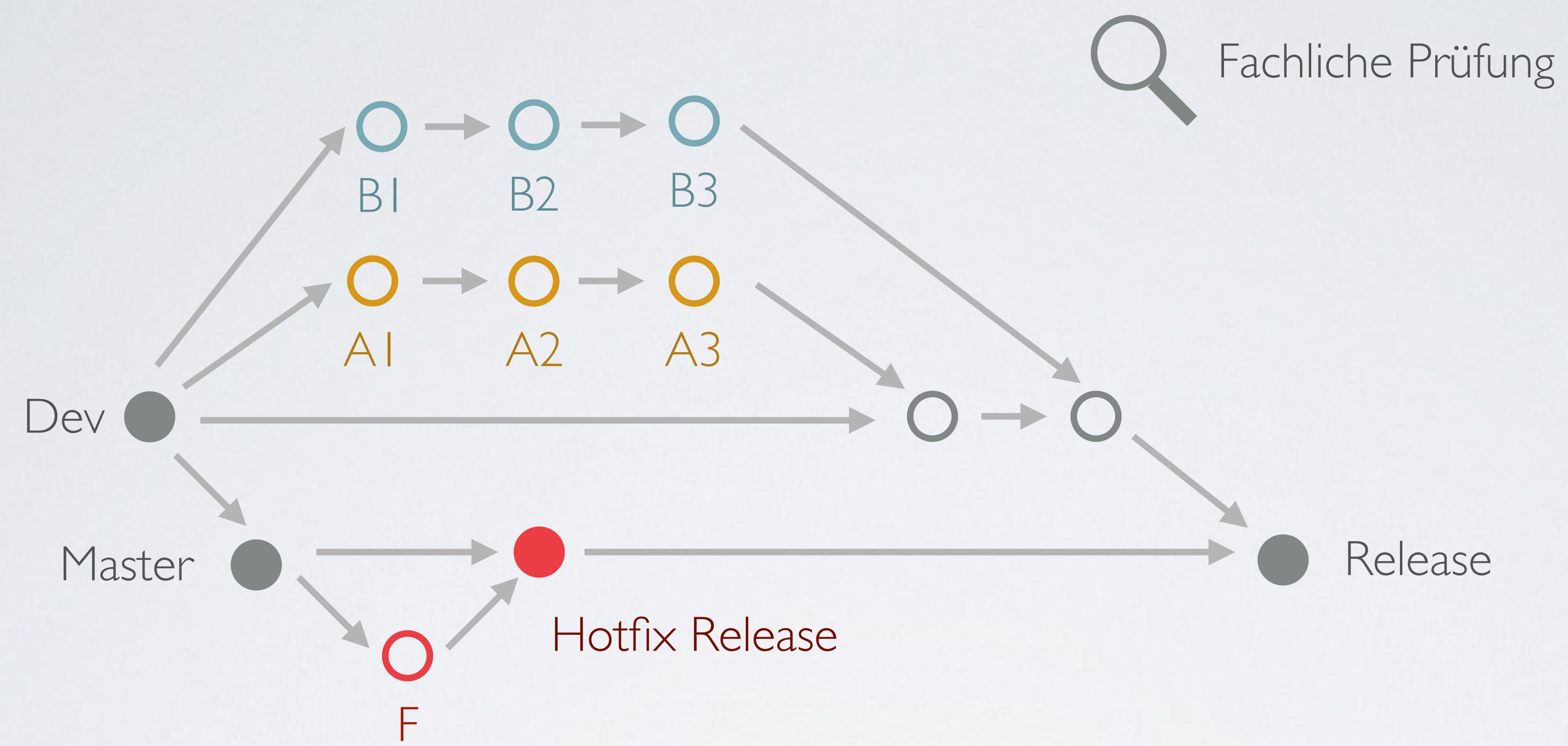
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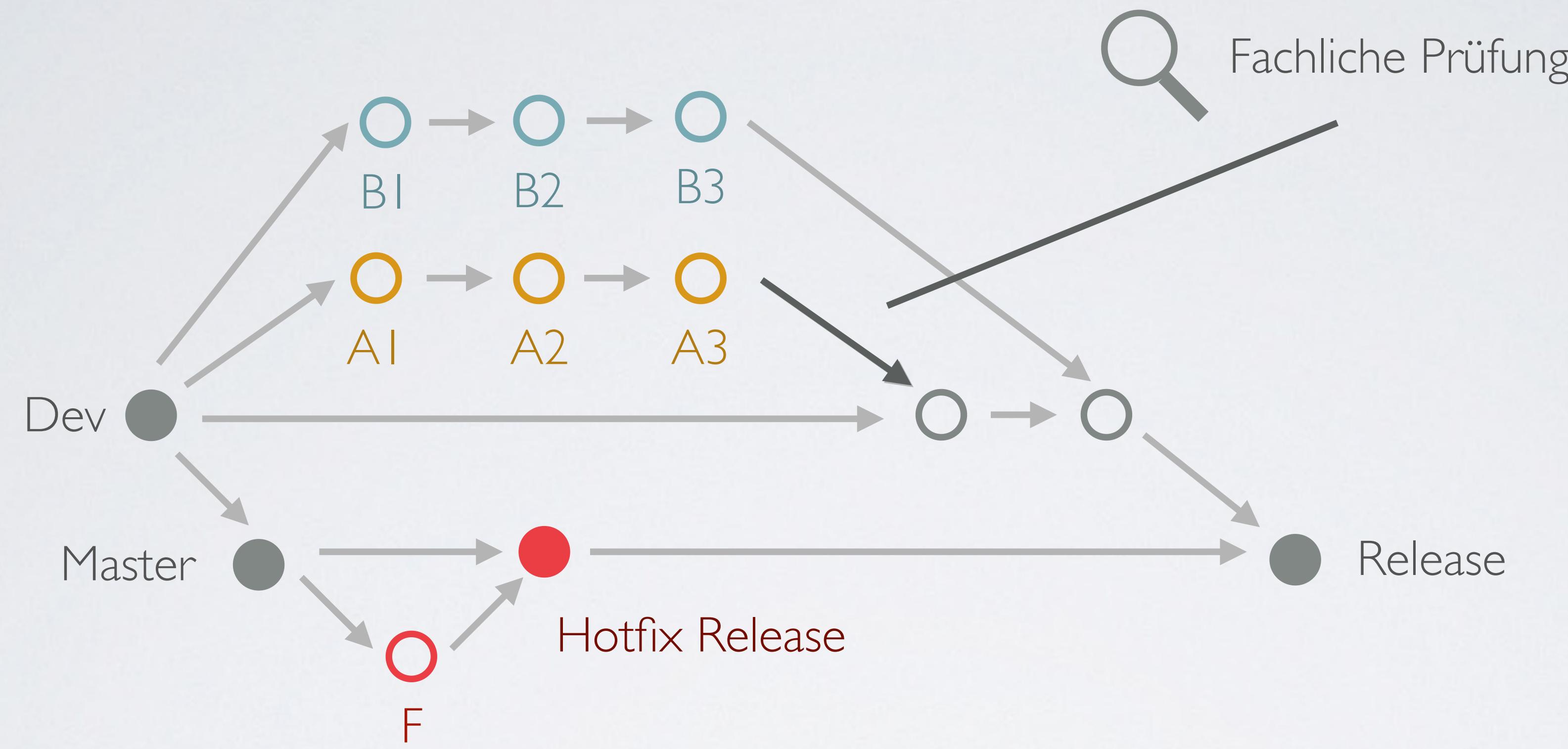
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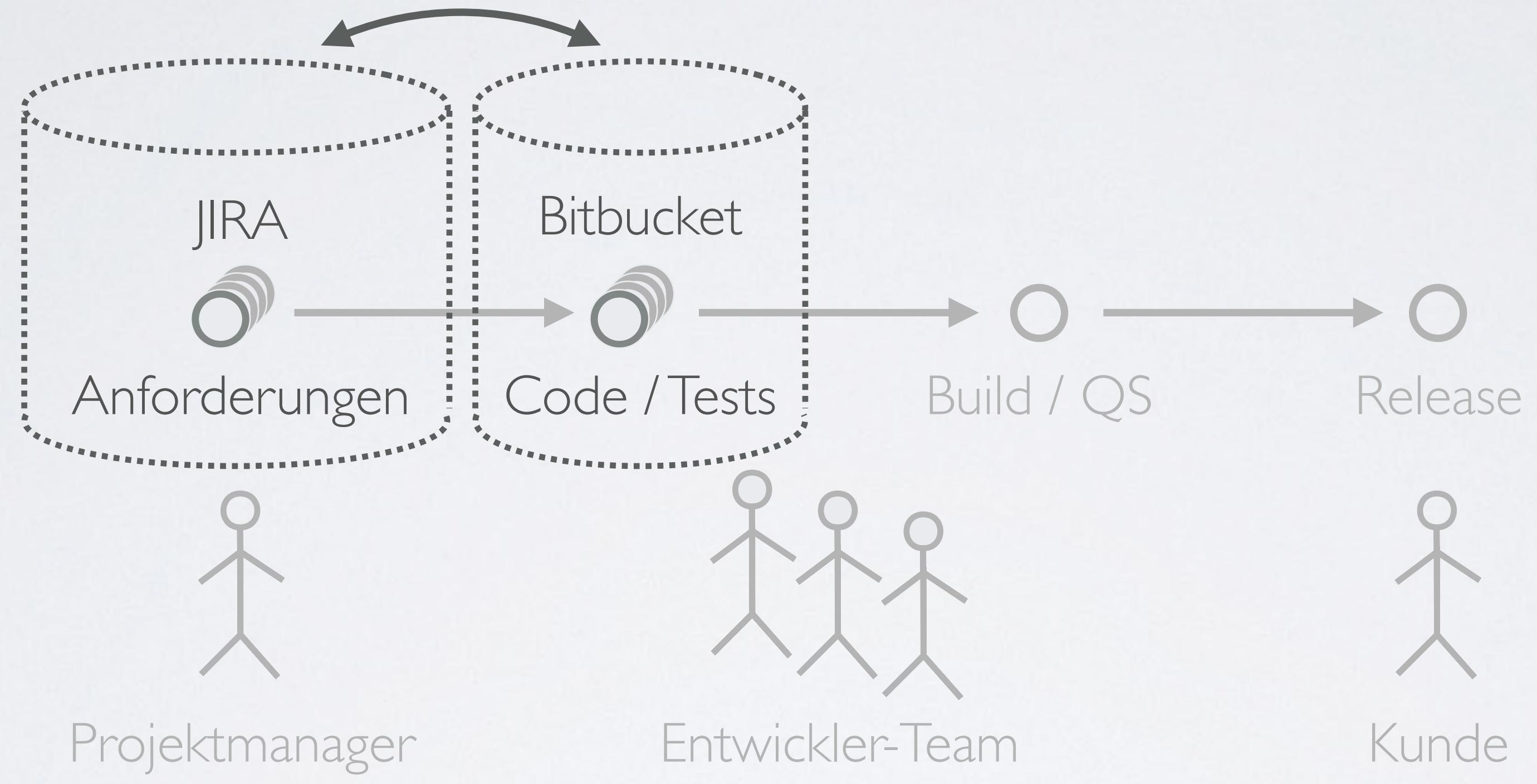
Offen   Gemerkt   Abgelehnt

ID	Überschrift	Autor	Prüfer	Quelle	Ziel	Aktualisiert
#237	Feature/legacy datenbank r...		✓			Vor 7 Stunden
#236	Feature/EG-1045 benutzerv...		✓			Vor 7 Stunden









# JIRA - TICKET

Timetracker V2 / TTZWO-176  
Zeitumstellungs-Bug

Bearbeiten Kommentar Zuweisen Weitere Aktionen ▾ Backlog Selected for Development In Arbeit Fertig New Email InstaPrinta Exportieren ▾

**Details**

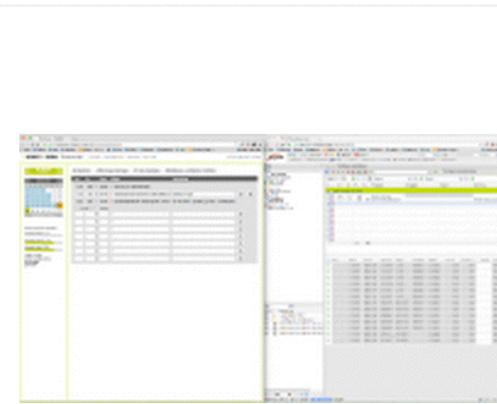
Typ:	User Story	Status:	NEW (Arbeitsablauf anzeigen)	Personen	
Priorität:	Medium	Lösung:	Nicht erledigt	Bearbeiter:	Joachim Seibert
betrifft Version(en):	Keine	Lösungsversion(en):	Keine	Mir zuweisen	
Komponente(n):	Keine			Autor:	Michael Frankl
Stichwörter:	Keine			Beteiligte:	Joachim Seibert, Michael Frankl

**Beschreibung**

Am 26.10.2014 (Tag der Zeitumstellung) habe ich Buchungen im Timetracker gemacht. Diese kamen in Projectile mit nicht unterschiedlichen Zeitverschiebungen an:

- Die Kommen-und-Gehen-Buchung war in PJ um -2h verschoben
- Eine Zeitbuchung war mit -1h verschoben.
- Eine Buchung konnte nicht übertragen werden, weil es Zeitüberschreibungen mit der anderen (oder Kommen und Gehen?) gab

**Anhänge**



Bildschirmfoto 2014-10-27 um 27.10.2014 09:44 637 kB

**Daten**

Erstellt: 27.10.2014 09:44  
Aktualisiert: 27.10.2014 09:44

**Entwicklung**

Branch erstellen

**Drag and Drop**

**Agil**

Auf Board anzeigen

Probleme mit JIRA?

# JIRA - TICKET

Timetracker V2 / TTZWO-176  
Zeitumstellungs-Bug

Bearbeiten Kommentar Zuweisen Weitere Aktionen ▾ Backlog Selected for Development In Arbeit Fertig New Email InstaPrinta ▾ Exportieren ▾

**Details**

Typ:	User Story	Status:	NEW (Arbeitsablauf anzeigen)	Personen	
Priorität:	Medium	Lösung:	Nicht erledigt	Bearbeiter:	Joachim Seibert
betrifft Version(en):	Keine	Lösungsversion(en):	Keine	Mir zuweisen	
Komponente(n):	Keine			Autor:	Michael Frankl
Stichwörter:	Keine			Beteiligte:	Joachim Seibert, Michael Frankl

**Beschreibung**

Am 26.10.2014 (Tag der Zeitumstellung) habe ich Buchungen im Timetracker gemacht. Diese kamen in Projectile mit nicht unterschiedlichen Zeitverschiebungen an:

- Die Kommen-und-Gehen-Buchung war in PJ um -2h verschoben
- Eine Zeitbuchung war mit -1h verschoben.
- Eine Buchung konnte nicht übertragen werden, weil es Zeitüberschreibungen mit der anderen (oder Kommen und Gehen?) gab

**Anhänge**

+ Bildschirmfoto 2014-10-27 um 27.10.2014 09:44 637 kB

**Entwicklung**

Branch erstellen

> Drag and Drop

**Agil**

Auf Board anzeigen

Probleme mit JIRA?

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betrifft Version(en):	Keine	Lösungsversion(en):	Keine	Autor:
Komponente(n):	Keine			Beteiligte:
Stichwörter:	Keine			Stimmen:

**Beschreibung**

Am 26.10.2014 (Tag der Zeitumstellung) habe ich Buchungen im Timetracker gemacht. Diese kamen in Projectile mit nicht unterschiedlichen Zeitverwendung.

- Die Kommen-und-Gehen-Buchungen sind in den Projektilen mit unterschiedlichen Zeiten vermerkt.
- Eine Zeitbuchung von 10 Minuten ist in einem Projekt mit einer Dauer von 1 Stunde vermerkt.
- Eine Buchung kontrahiert mit einer anderen Buchung.

**Entwicklung**

**Branch erstellen**

Anhänge

Bildschirmfoto 2014-10-27 um 10:44:27  
637 kB 27.10.2014 09:44

Drag and Drop

Auf Board anzeigen

Probleme mit JIRA?

# BITBUCKET - BRANCH ERSTELLEN

Branch für TTZWO-176 erstellen

Repository  //SEIBERT/... / timetracker ▾

Branchtyp Bug ▾

Weitere Informationen zu Branchtypen

Branch von  develop ▾

Branchname bugfix/ TTZWO-176-zeitumstellungs-bug

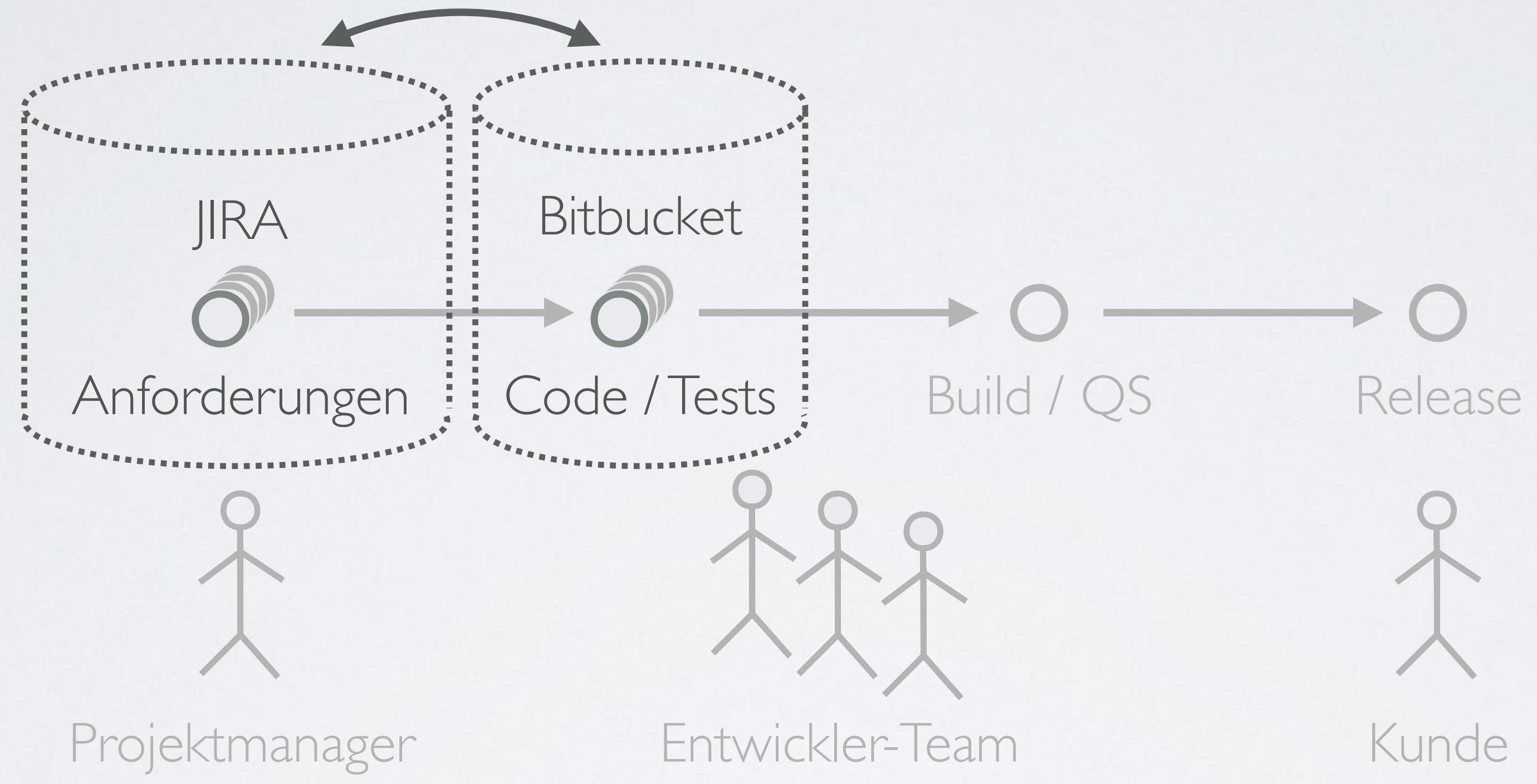
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 develop

 bugfix/TTZWO-176-zeitumstellungs-bug

**Branch erstellen** Abbrechen

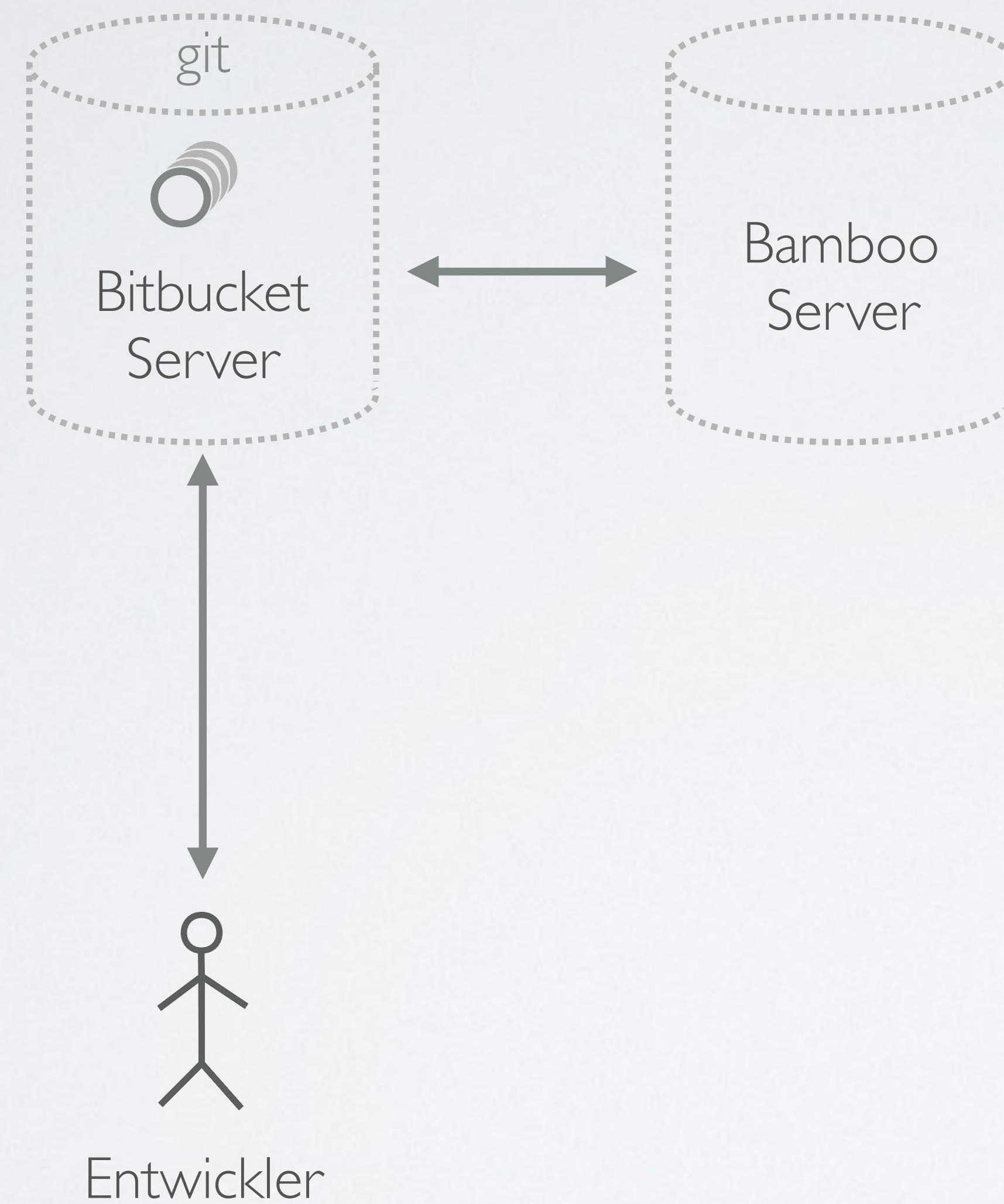


# CONTINUOUS INTEGRATION (CI)

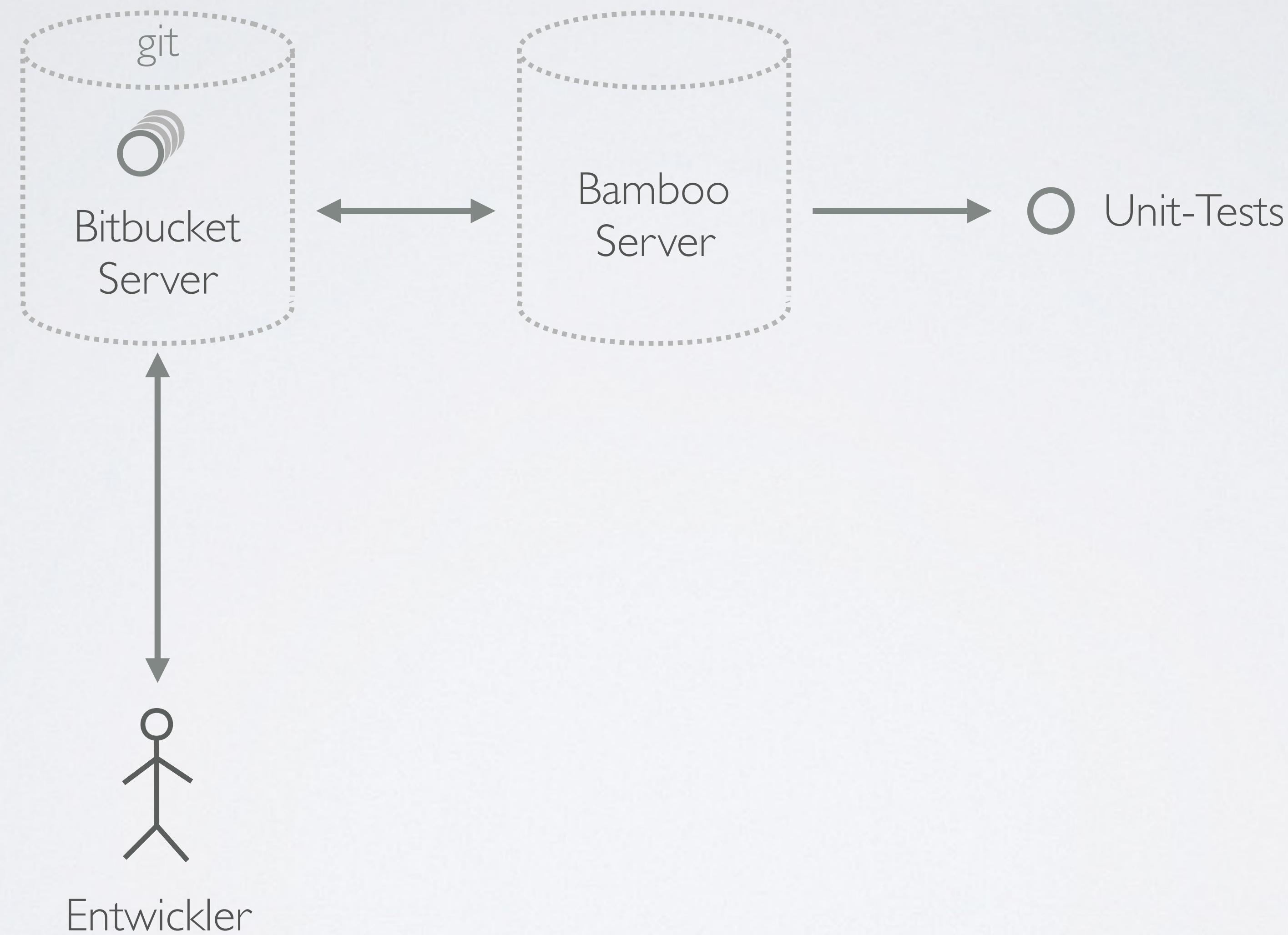


Entwickler

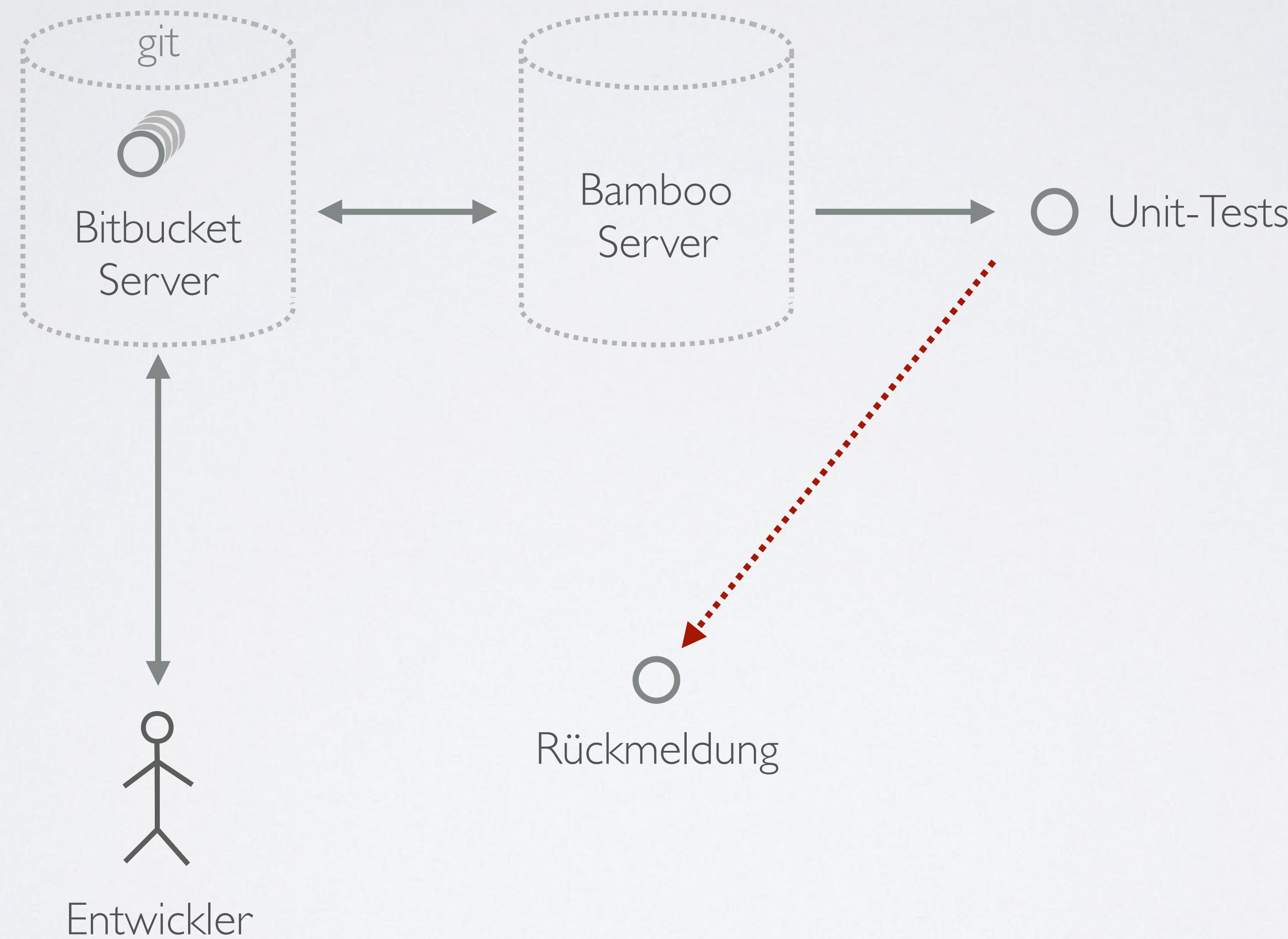
# CONTINUOUS INTEGRATION (CI)



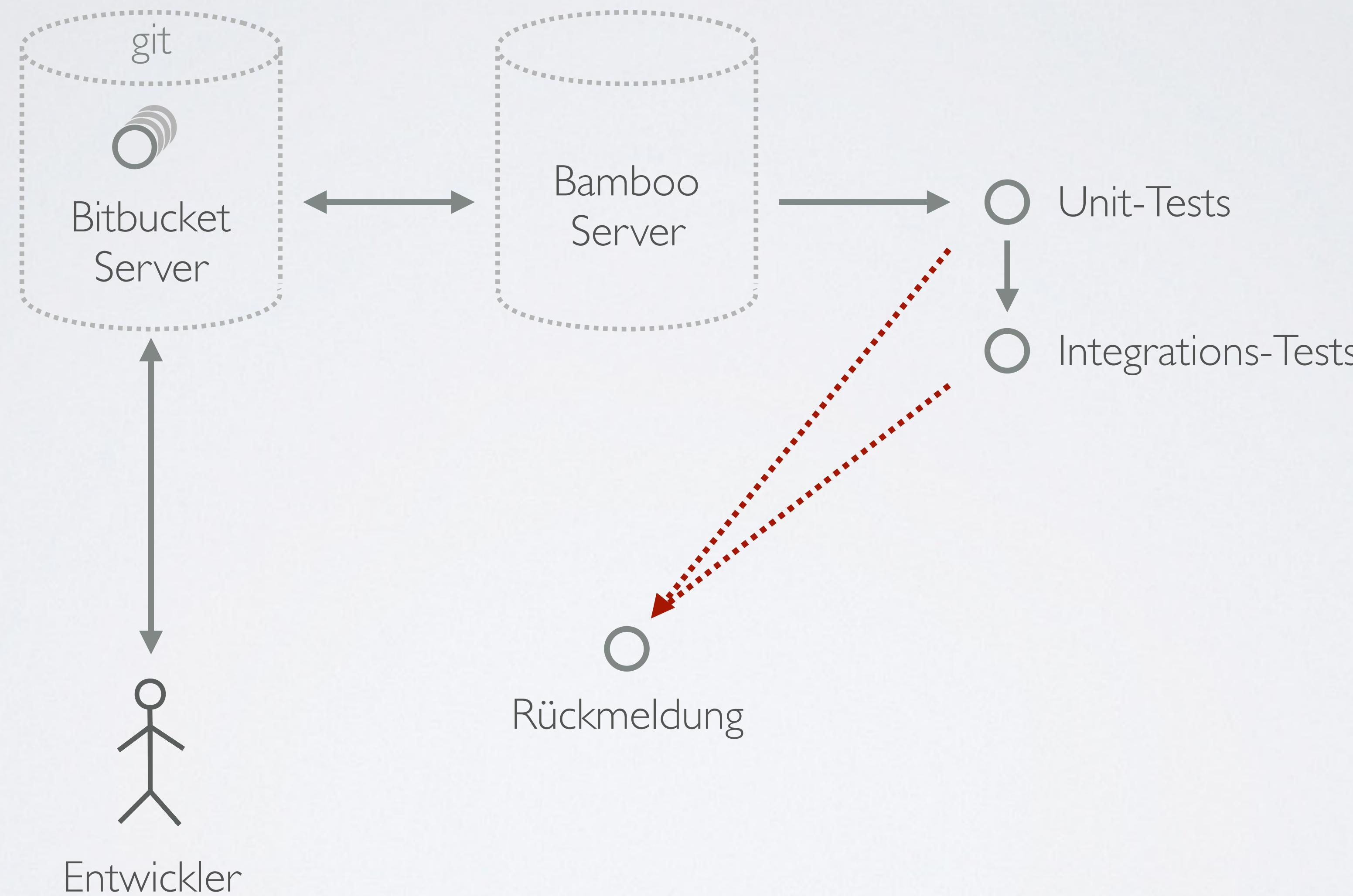
# CONTINUOUS INTEGRATION (CI)



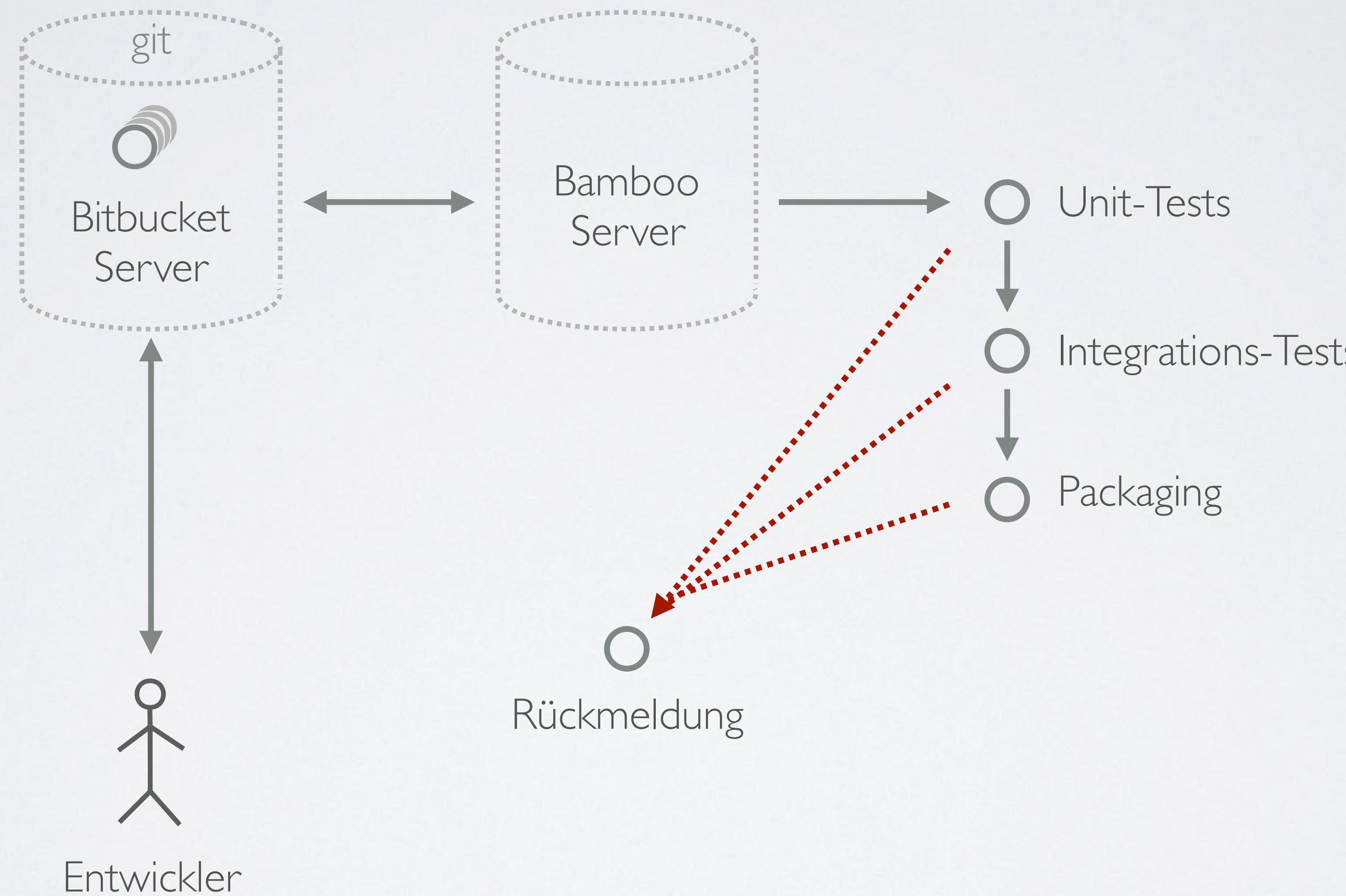
# CONTINUOUS INTEGRATION (CI)



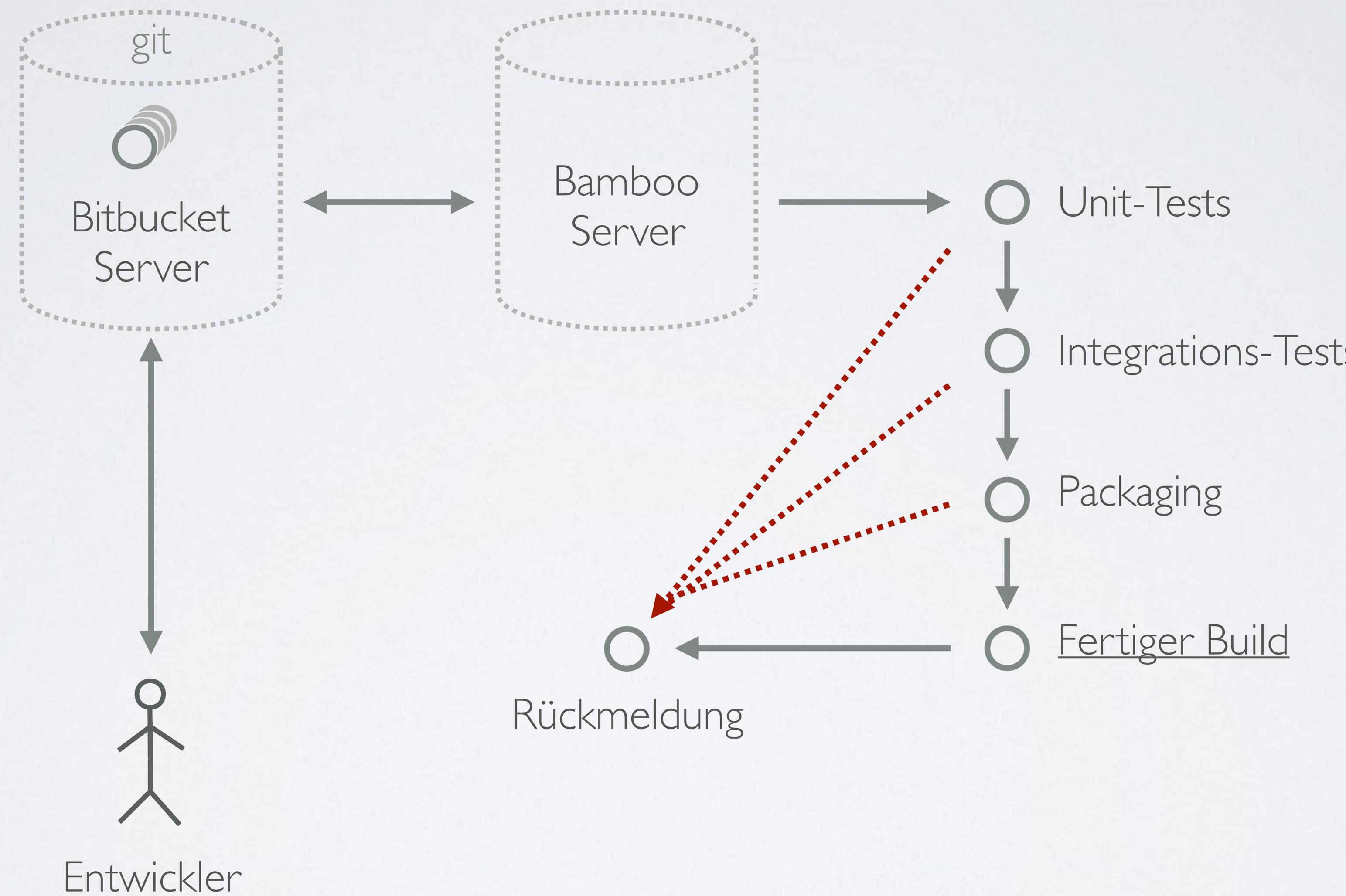
# CONTINUOUS INTEGRATION (CI)



# CONTINUOUS INTEGRATION (CI)



# CONTINUOUS INTEGRATION (CI)



# BAMBOO - ÜBERSICHT

Plan summary   Branches   Recent failures   History   Tests   Issues   Deployments 2

Showing Last 25 builds ▾

## Plan summary

Current activity

No builds are currently running.

Recent history

	#560	Changes by <a href="#">Tilman Potthof</a>	6 days ago	771 passed
	#559	Changes by <a href="#">Tilman Potthof</a> and <a href="#">Matthias Clasen</a>	6 days ago	770 passed
	#558	Changes by <a href="#">Tilman Potthof</a>	1 week ago	769 passed
	#557	Changes by <a href="#">5 people</a>	1 week ago	769 passed
	#556	Changes by <a href="#">Micha Kops</a>	3 weeks ago	767 passed

[Latest build](#)   [Last successful build](#)

## Plan statistics

5 builds  

100% successful  

26m average duration

## Branches

	<a href="#">feature-TT-2450-zurucksetzen-von-kategorisierung</a>		#2
	<a href="#">feature-TT-2415-suche-verbessern</a>		#9
	<a href="#">development</a>		#32

# BAMBOO - ÜBERSICHT

Plan summary   Branches   Recent failures   History   Tests   Issues   Deployments 2

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## Branches

	feature-TT-2450-zurucksetzen-von-kategorisierung	#2
	feature-TT-2415-suche-verbessern	#9
	development	#32

# BAMBOO - LAUFENDER BUILD

Build projects / TT / timetracker  
**Build #3** feature-TT-2450-zurucksetzen-von-kategorisierung ▾

[TT-2450](#) - Could not obtain issue details from JIRA

#3 is building – 1 min remaining – Changes by [Matthias Clasen](#)

Stages & jobs	Branch summary	Commits	Artifacts	Logs	Issues
UnitTest					
<a href="#">UnitTest</a>					
IntegrationTest					
<a href="#">IntegrationTest</a>					
Package					
<a href="#">Package</a>					

**Build result summary**

**Details**

Started 05 Nov 2014, 9:58:29 PM – 25 minutes ago

Labels None

Revision [3d98593...](#)

**Branch integration details**

Checked out [feature/TT-2450-zurucksetzen-von-kategorisierung](#) [3d985930...](#)

Merged with [master:e84932f1...](#)

Write a comment...



# BAMBOO - LAUFENDER BUILD

Build projects / TT / timetracker  
**Build #3**    feature-TT-2450-zurucksetzen-von-kategorisierung ▾

[TT-2450](#) - Could not obtain issue details from JIRA

#3 is building – 1 min remaining – Changes by [Matthias Clasen](#)

**Stages & jobs**

<b>UnitTest</b>
<b>UnitTest</b>
<b>IntegrationTest</b>
<b>IntegrationTest</b>
<b>Package</b>
<b>Package</b>

[Branch summary](#) [Commits](#) [Artifacts](#) [Logs](#) [Issues](#)

**Build result summary**

**Details**

Started 05 Nov 2014, 9:58:29 PM – 25 minutes ago

Labels None

Revision [3d98593...](#)

**Branch integration details**

Checked out [feature/TT-2450-zurucksetzen-von-kategorisierung](#) [3d985930...](#)

Merged with [master:e84932f1...](#)

Write a comment...

# BAMBOO - FERTIGER BUILD

Build projects / TT / timetracker

**Build #3** feature-TT-2450-zurucksetzen-von-kategorisierung ▾

[TT-2450](#) - Could not obtain issue details from JIRA

⌚ #3 was successful – Changes by [Matthias Clasen](#)

Stages & jobs

UnitTest	
IntegrationTest	
Package	

Branch summary Tests Commits Artifacts Logs Metadata Issues

### Build result summary

Details

Completed 05 Nov 2014, 10:24:15 PM – 3 seconds ago

Duration 25 minutes

Labels None

Show more

0 0 0

New failures Existing failures Fixed

Included in deployment project

[Timetracker Deployment](#)

No release with the artifacts of this build exists yet.

[Create release](#)

[Timetracker Dev Deployment](#)

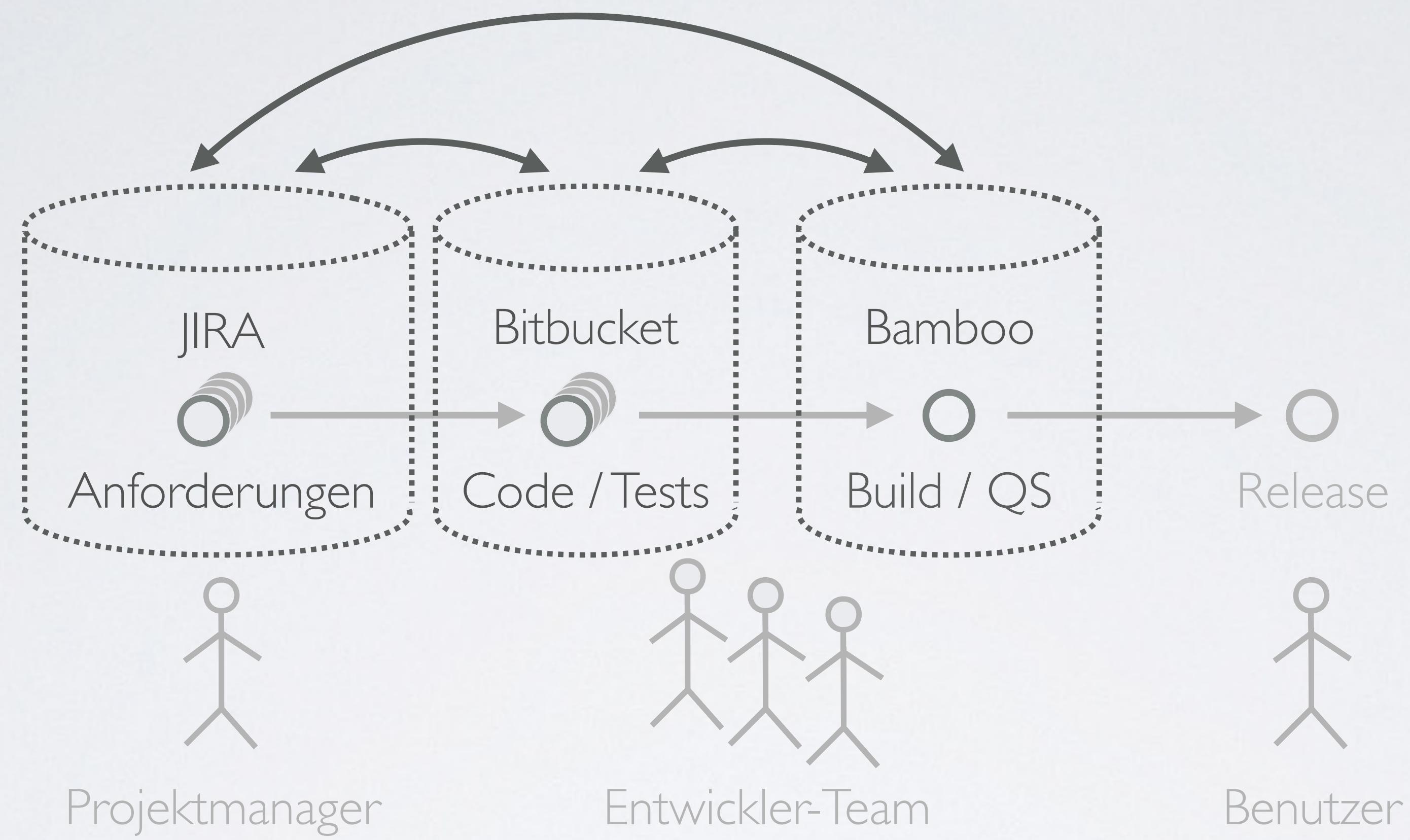
No release with the artifacts of this build exists yet.

[Create release](#)

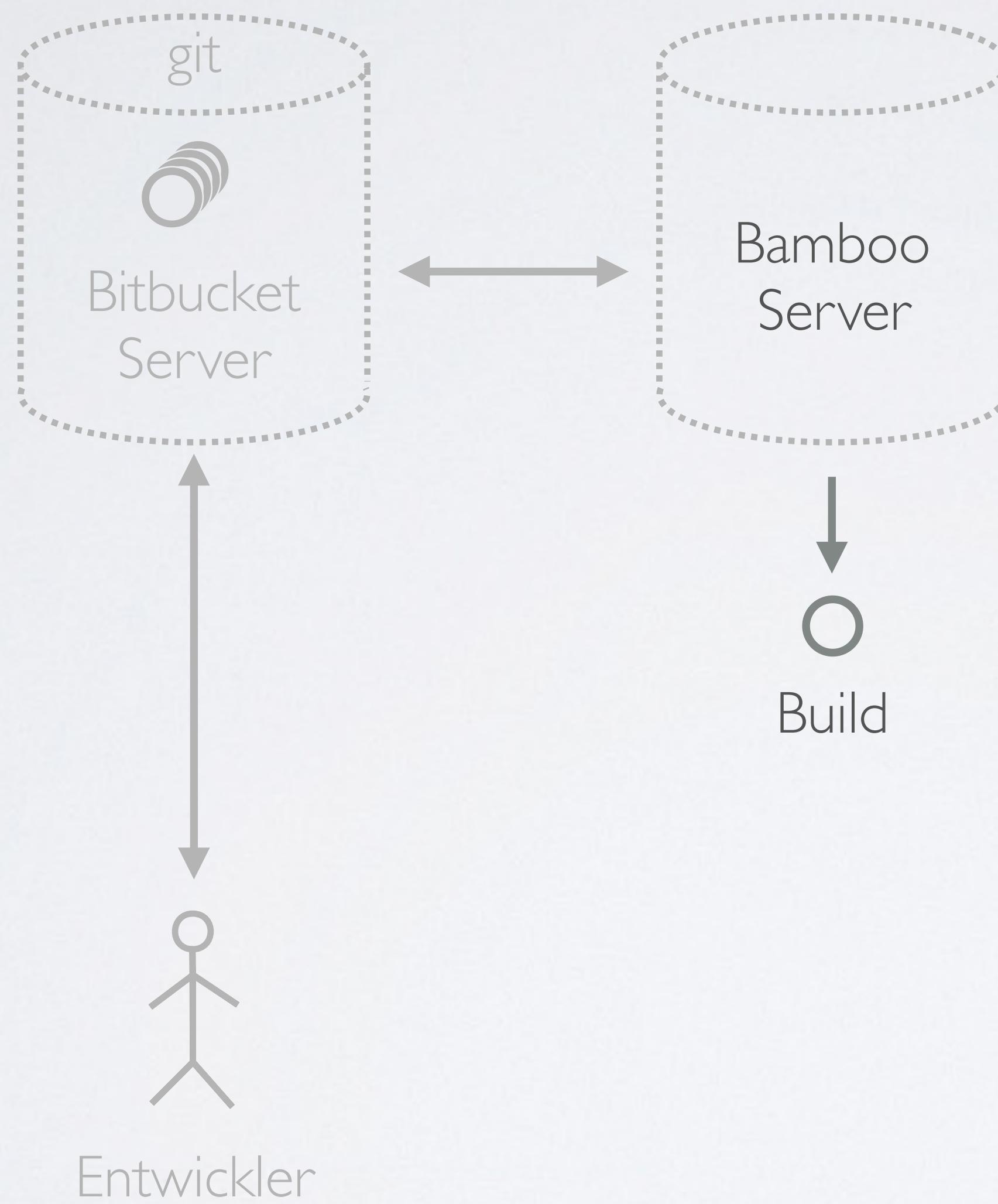
### Branch integration details

Checked out [feature/TT-2450-zurucksetzen-von-kategorisierung](#) 3d985930...

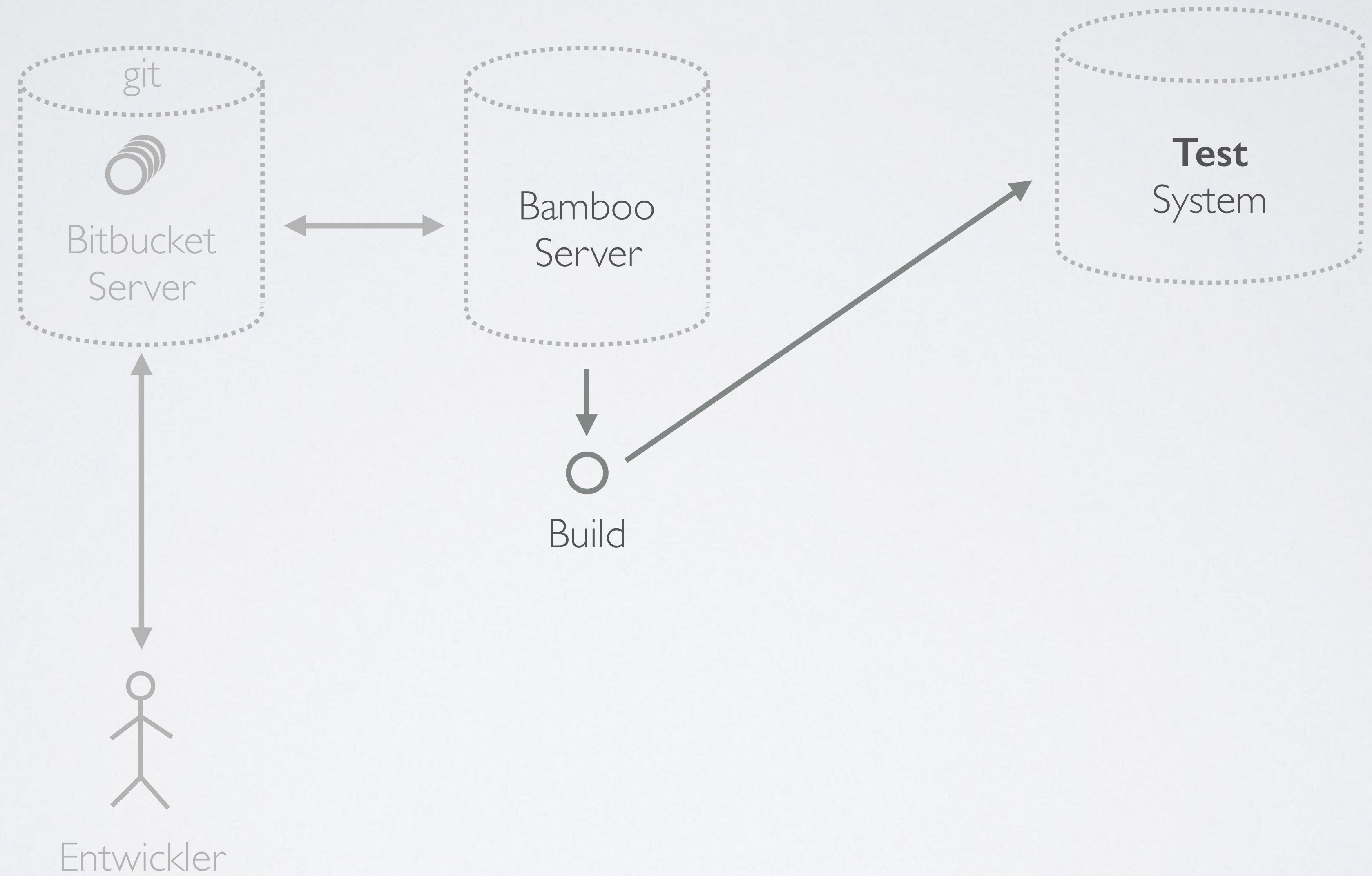
Merged with [master:e84932f1...](#)



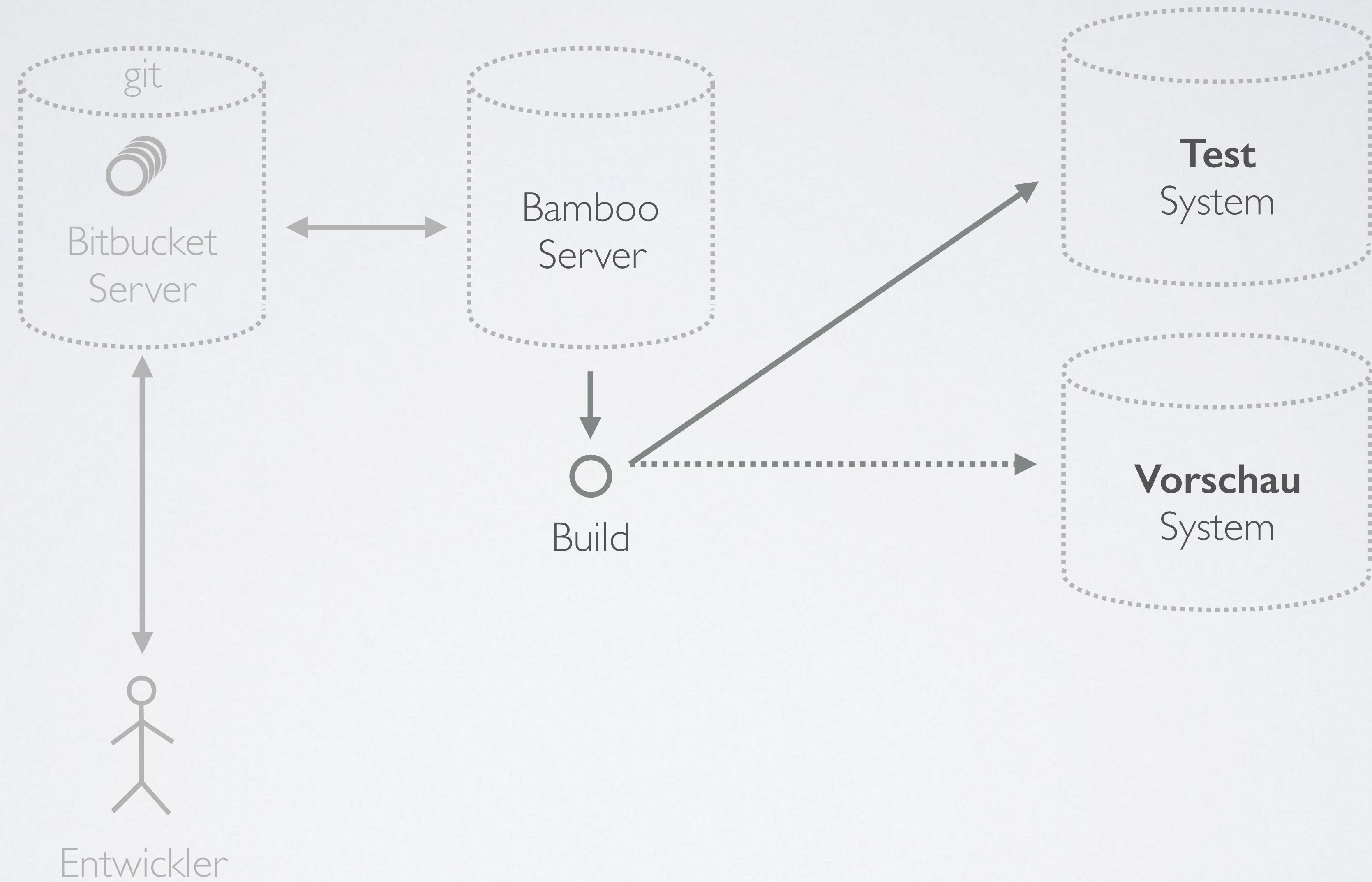
# CONTINUOUS DELIVERY (CD)



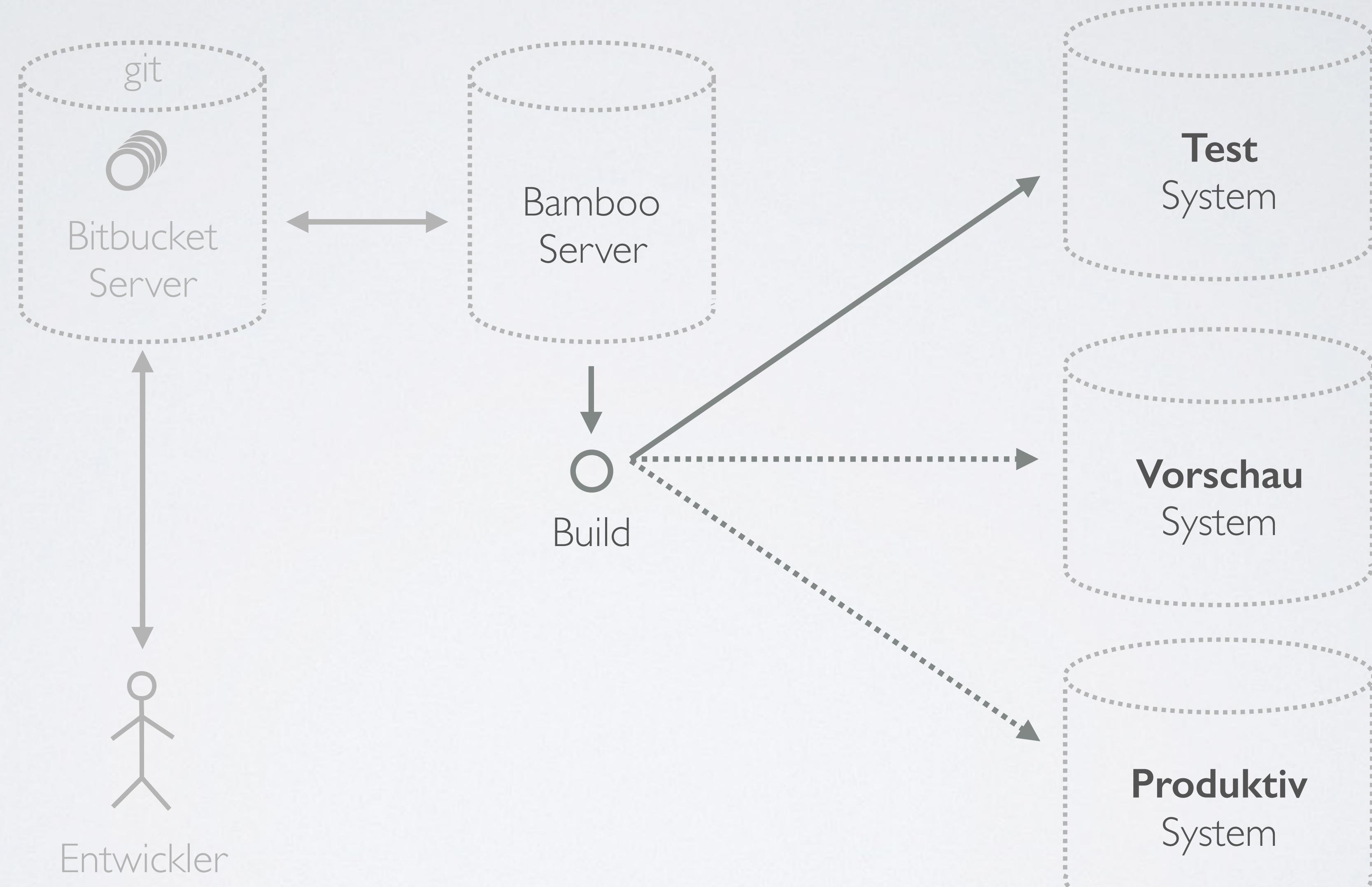
# CONTINUOUS DELIVERY (CD)



# CONTINUOUS DELIVERY (CD)



# CONTINUOUS DELIVERY (CD)



# BAMBOO - DEPLOYMENT

Build projects / TT  
**Timetracker**  feature-TT-2450-zurucksetzen-von-kategorisierung ▾

 [TT-2450](#) - Could not obtain issue details from JIRA

[Branch summary](#) [Recent failures](#) [History](#) [Tests](#) [Issues](#) **Deployments** 2

[Related deployments](#)

Deployment project	Environment	Release	Release branch	Build result used	Result	Completed	Actions
Timetracker Deployment	Preview	release-374	 master	 #560	 Logs	30 Oct 2014 12:12 PM	
	Prod	release-374	 master	 #560	 Logs	30 Oct 2014 06:45 PM	
Deployment project	Environment	Release	Release branch	Build result used	Result	Completed	Actions
Timetracker Dev Deployment	Test	release-400	 development	 #31	 Logs	03 Nov 2014 11:55 AM	
	Test (DB RESET)					Never deployed	

# BAMBOO - DEPLOYMENT

Build projects / TT  
**Timetracker**     feature-TT-2450-zurucksetzen-von-kategorisierung ▾

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Branch summary   Recent failures   History   Tests   Issues   **Deployments 2**

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 [TT-2450](#) - Could not obtain issue details from JIRA

[Branch summary](#) [Recent failures](#) [History](#) [Tests](#) [Issues](#) **Deployments 2**

[Actions](#)

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	Test (DB RESET)				Never deployed		

# INFOS IM JIRA

## Entwicklung

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**1** Branch

Aktualisiert 20.11.2015 15:31

**28** Commits

Aktuellste 20.11.2015 15:50

**3** Pull Requests [ZUSAMMENG...](#)

Aktualisiert 20.11.2015 15:50

**3** Builds 

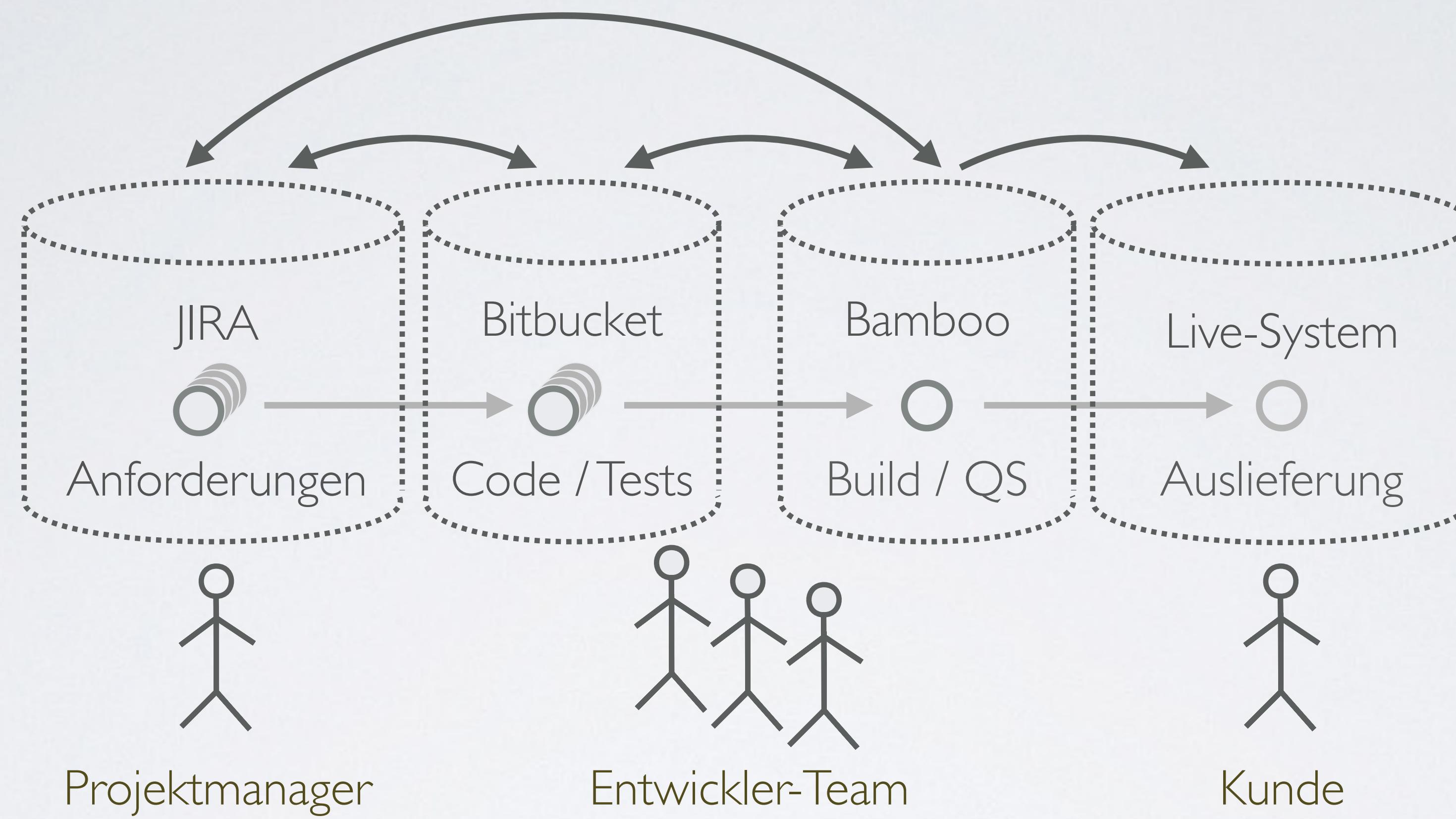
Aktuellste 23.11.2015 20:32

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Bereitgestellt für Preview und Prod

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Branch erstellen





DANKE!

# DISKUSSION

- Spannungsfeld - Tools, Prozesse, Menschen
- DevOps - Hype oder nachhaltiges Konzept?
- Einheitlichkeit von Umgebungen - Dev vs. Prod
- Integration von Code-Metriken
- Wird **git** zum Defacto-Standard
- Braucht man Pull-Requests wirklich?