# Continuous Delivery

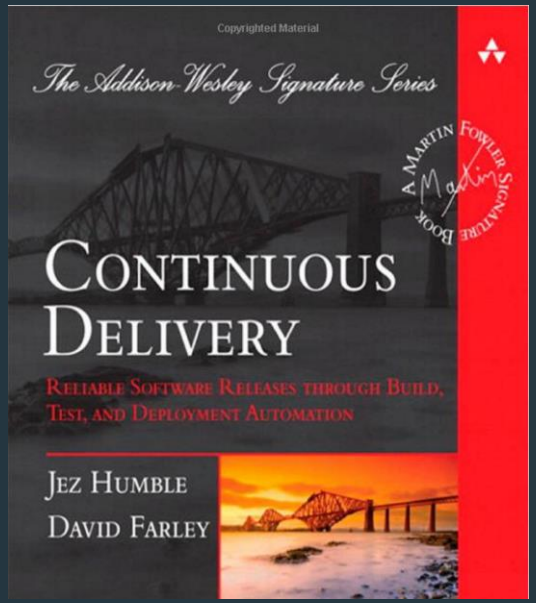
# Agenda

1. Define Continuous Delivery
2. How Pivotal Cloud Foundry Enables Continuous Delivery

“How long would it take in your environment to push a single line of code to production?”

Mary Poppendiek

# Continuous Delivery




Build software so that it can be released to production at anytime.

Continuous Deployment

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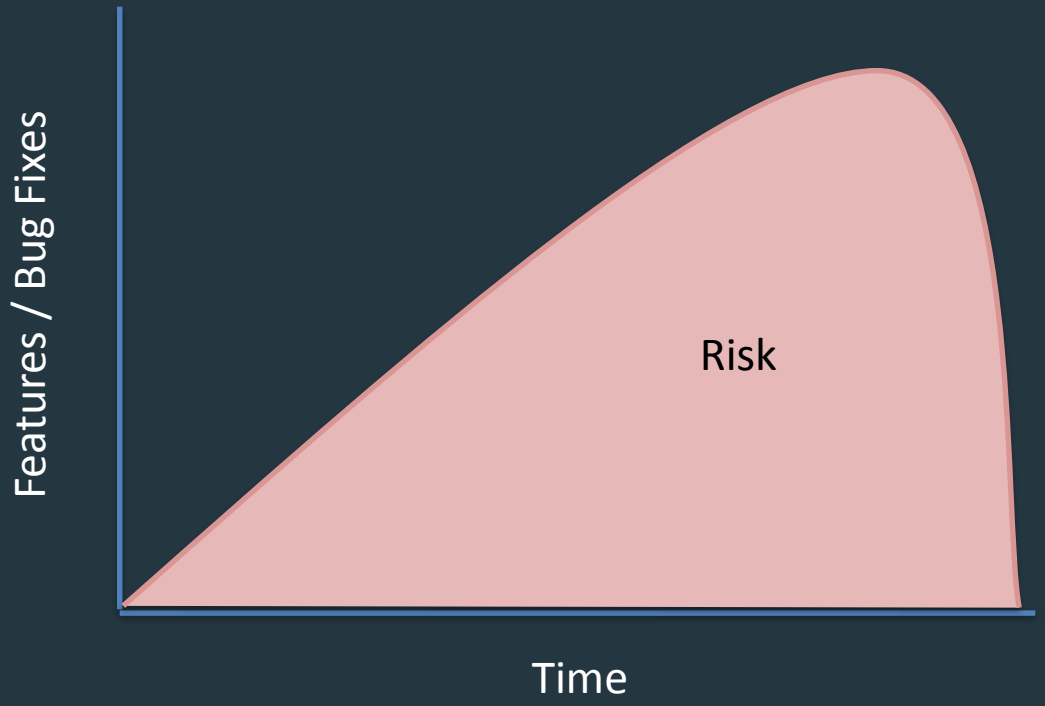
Continuous Delivery

## Who Decides When to go to Prod?

The business.

(Technical teams should be ready)

# Waterfall Application Delivery



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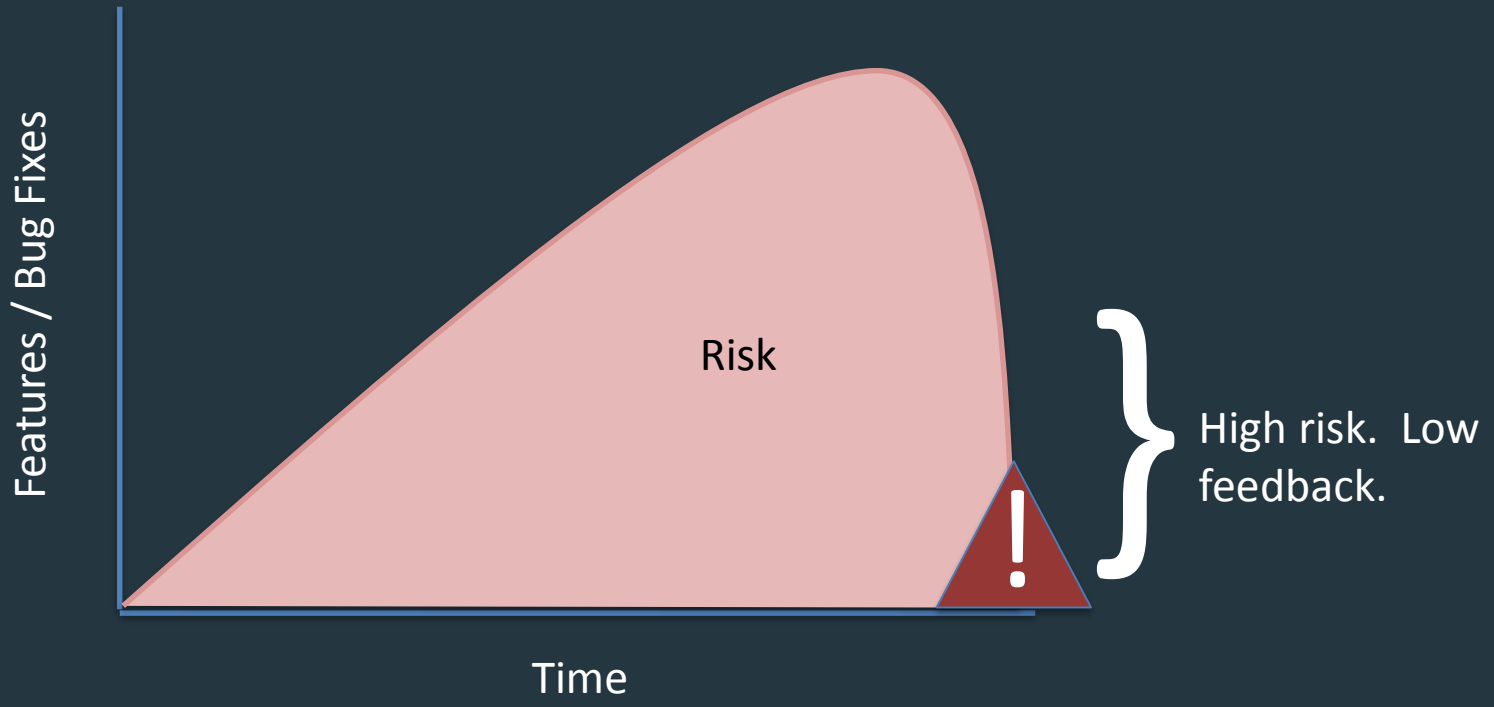
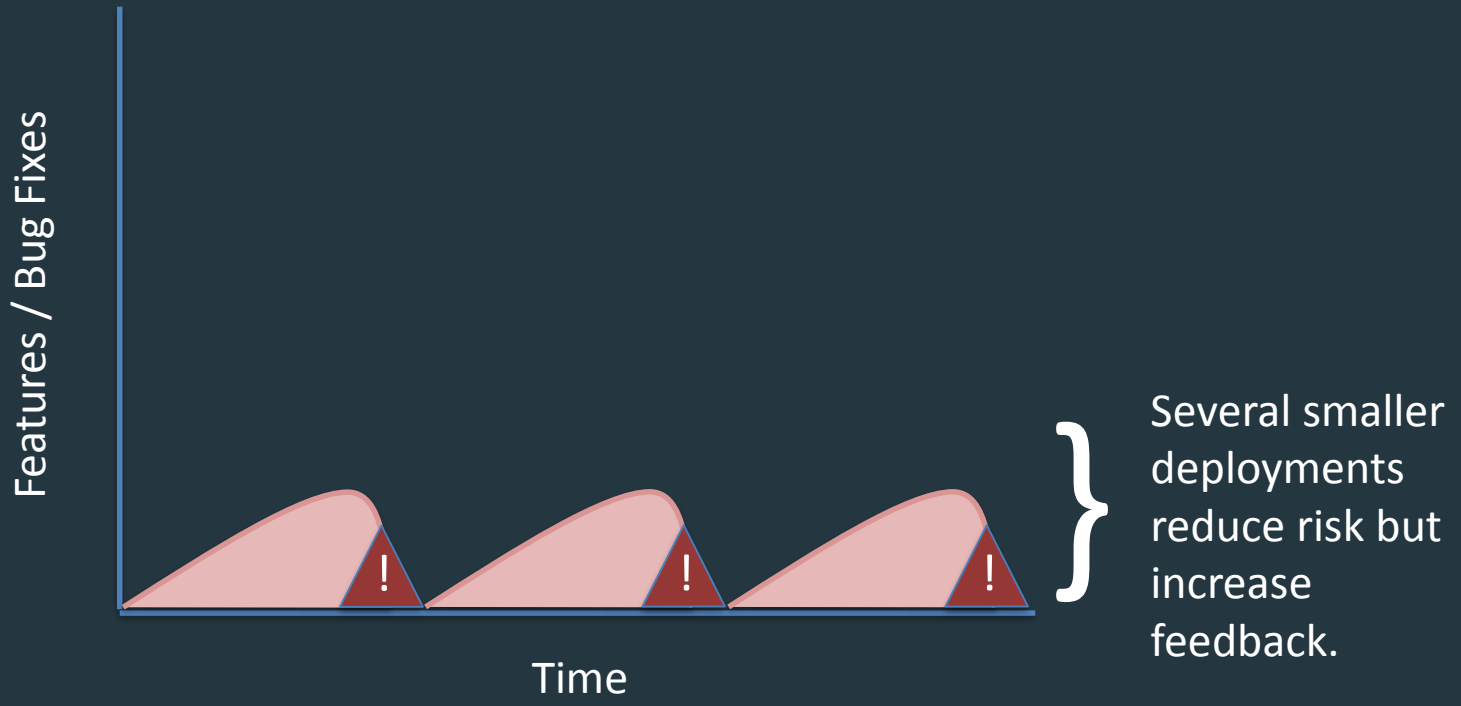


# Application Delivery with Continuous Delivery



# STRATEGIES FOR SUCCESS

# Do implement continuous integration.

# Do not create environment specific packages.

# Do externalize environment specific configuration.

# Do not assume existing processes are right.

Do not use a different process for different environments.

# Do recreate app environments frequently.

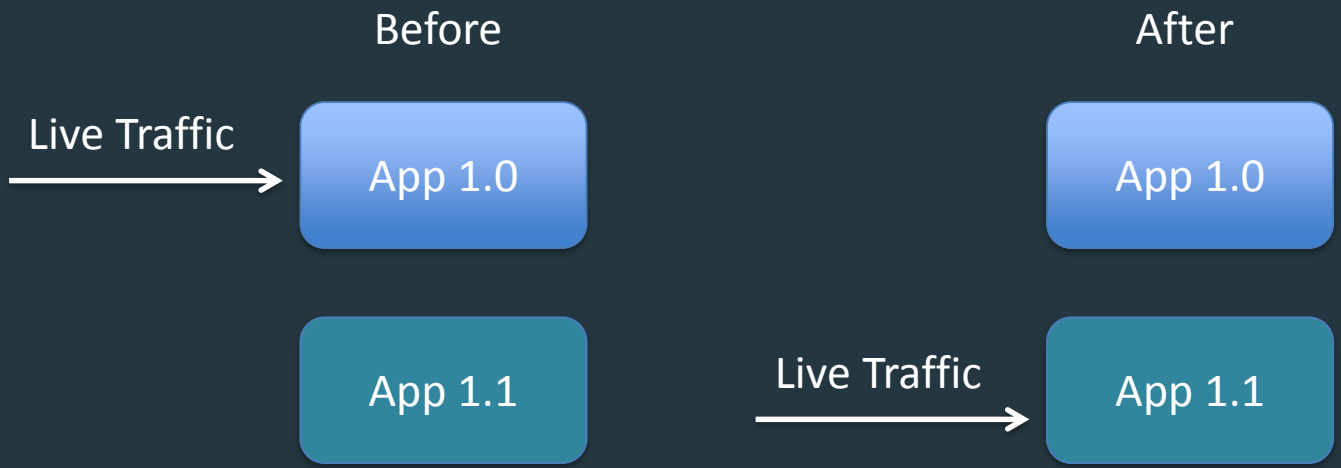
Do ensure that database changes are automated.

# Do deploy less more frequently.

Do automate all testing where test failures would prevent a production release from occurring.

Do try to use tools that support the process.

# Blue-Green deployments can be used with a continuous delivery pipeline.



# YOU KNOW YOU ARE DOING CONTINUOUS DELIVERY WHEN…

http://martinfowler.com/bliki/ContinuousDelivery.html

You’re Doing Continuous Delivery When

# Your software is deployable through its lifecycle.

http://martinfowler.com/bliki/ContinuousDelivery.html

## You’re Doing Continuous Delivery When

Your team prioritizes keeping the software deployable over working on new features.

http://martinfowler.com/bliki/ContinuousDelivery.html

## You’re Doing Continuous Delivery When

Anybody can get fast, automated feedback on the production readiness of their systems any time somebody makes a change to them.

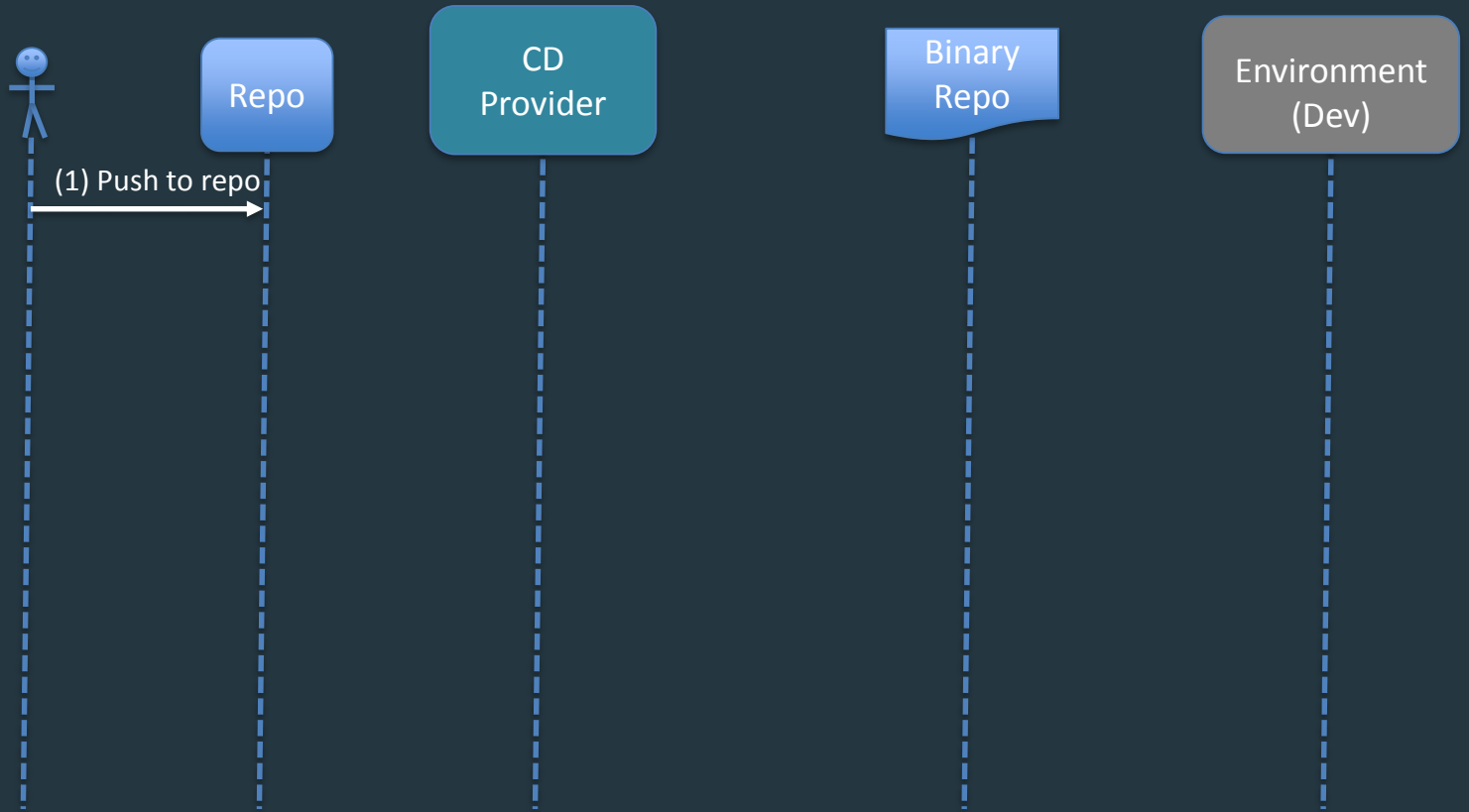
http://martinfowler.com/bliki/ContinuousDelivery.html

## You’re Doing Continuous Delivery When

You can perform push-button deployments of any version of the software to any environment on demand.

http://martinfowler.com/bliki/ContinuousDelivery.html

# Continuous Delivery Sequence (Development)



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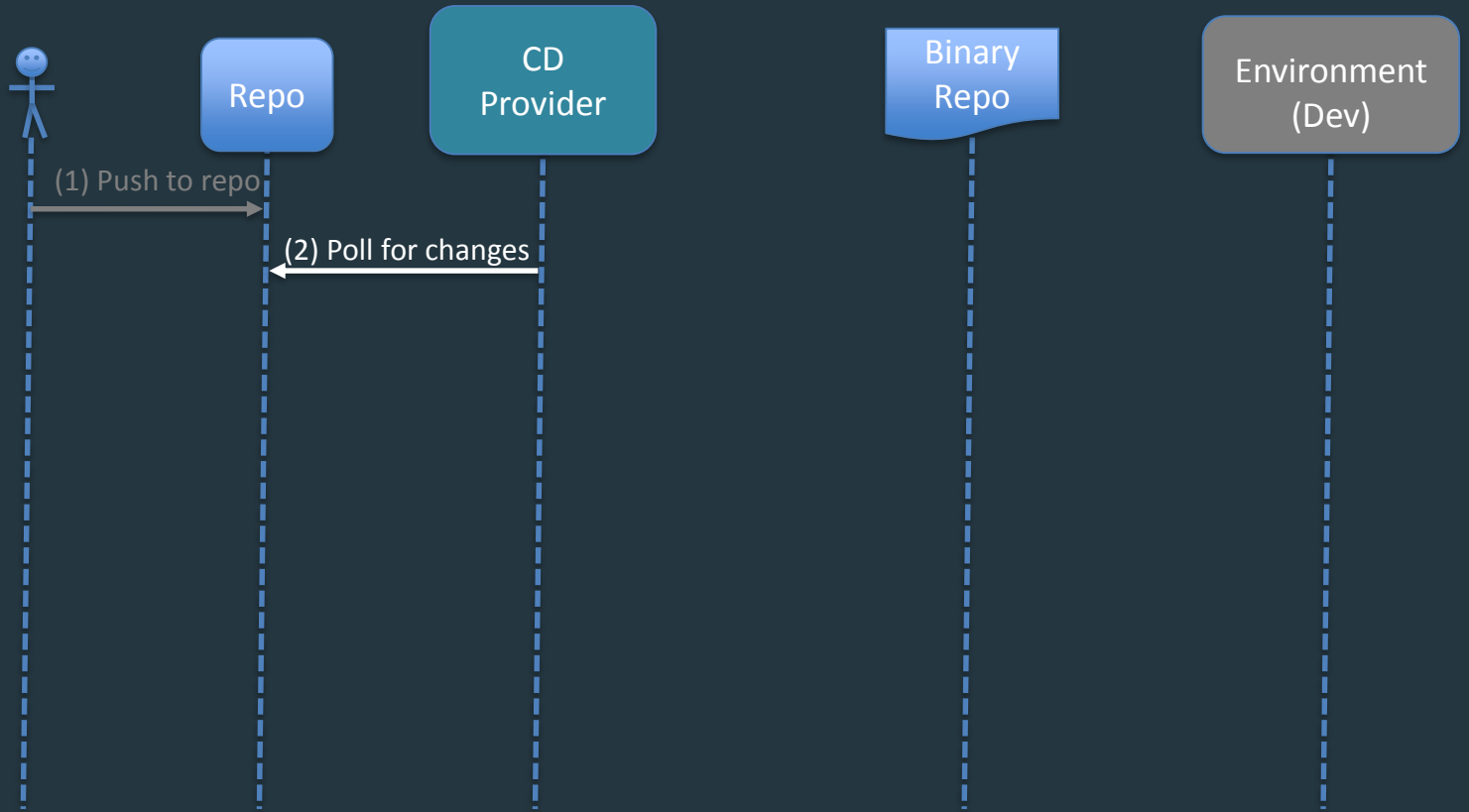

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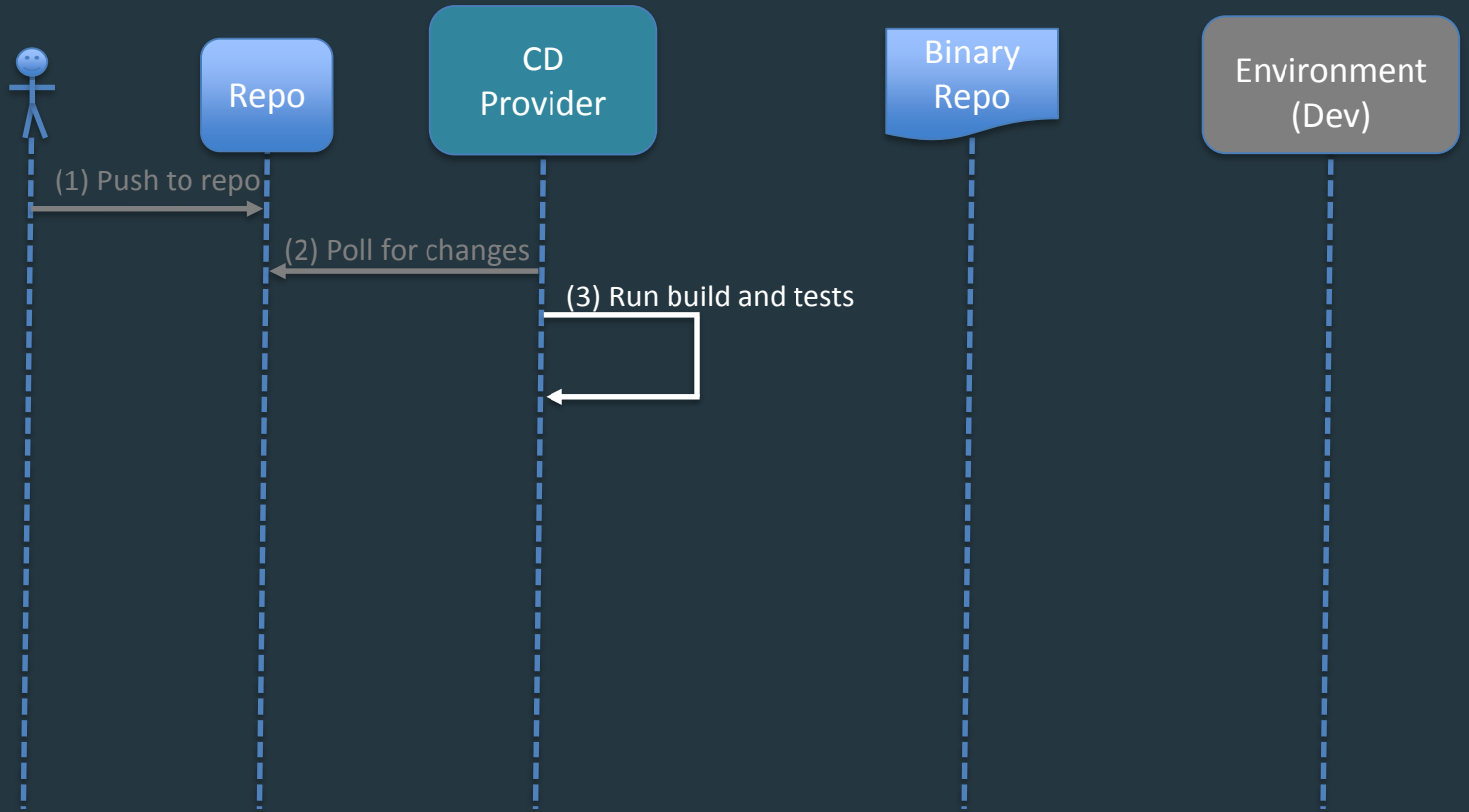

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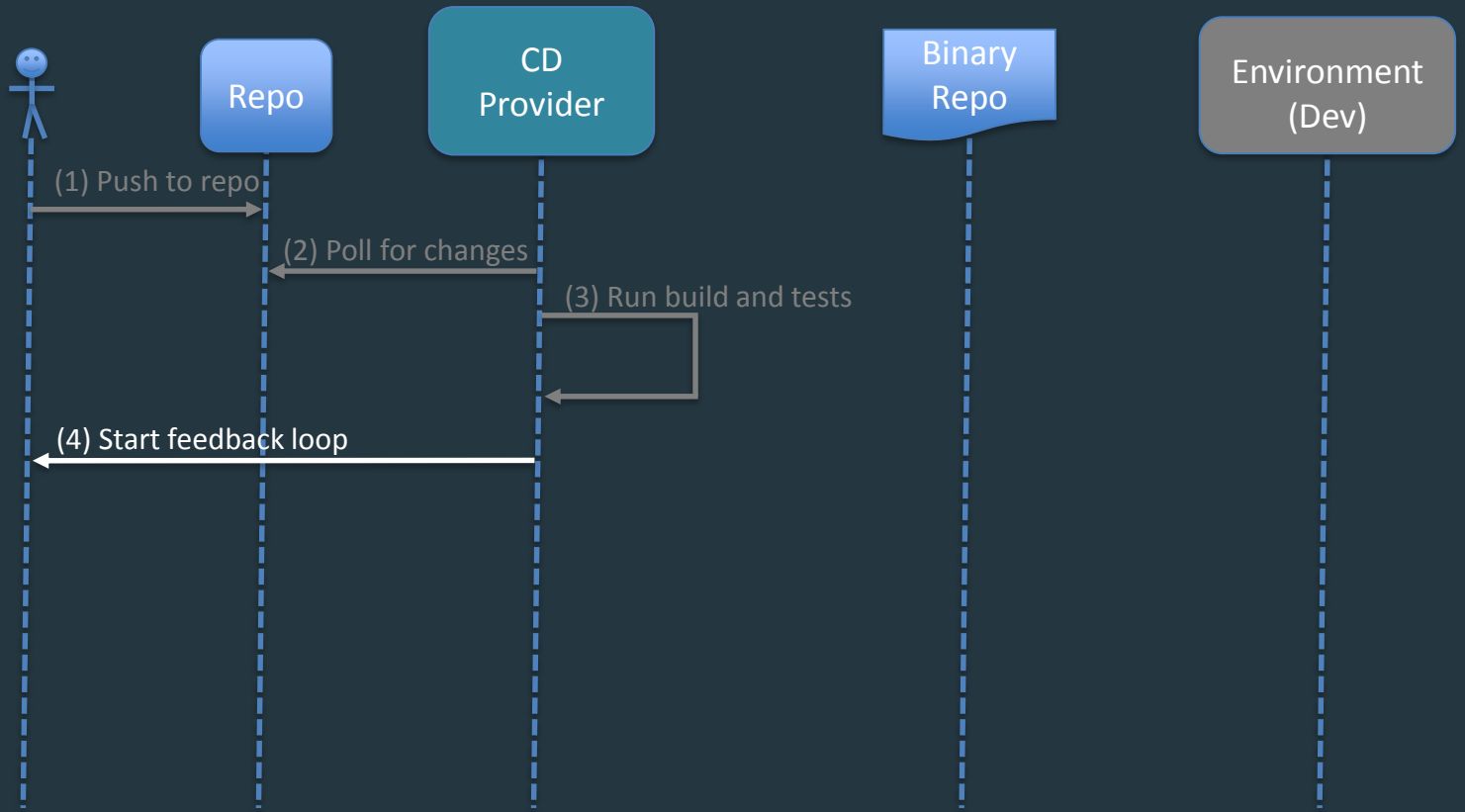

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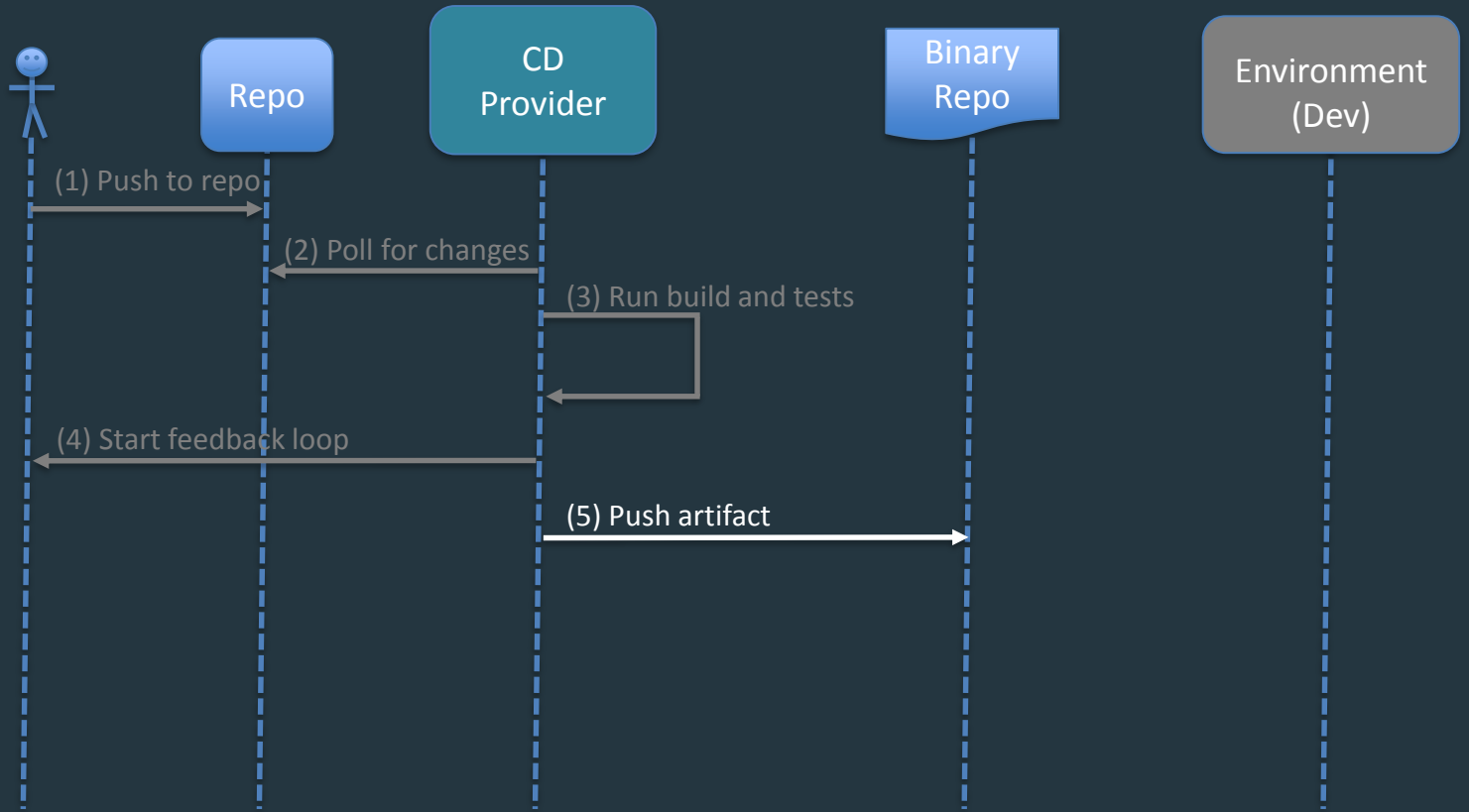

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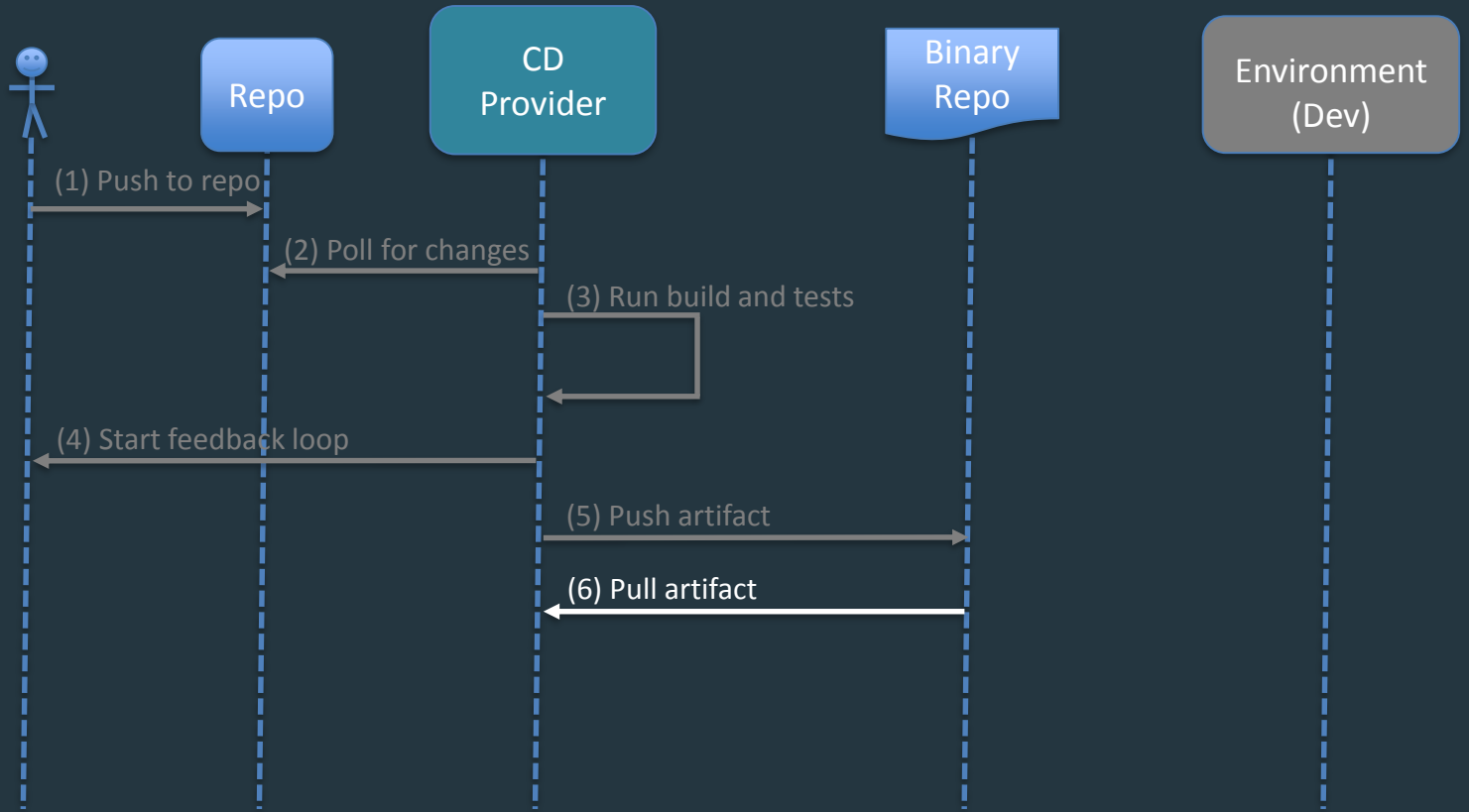

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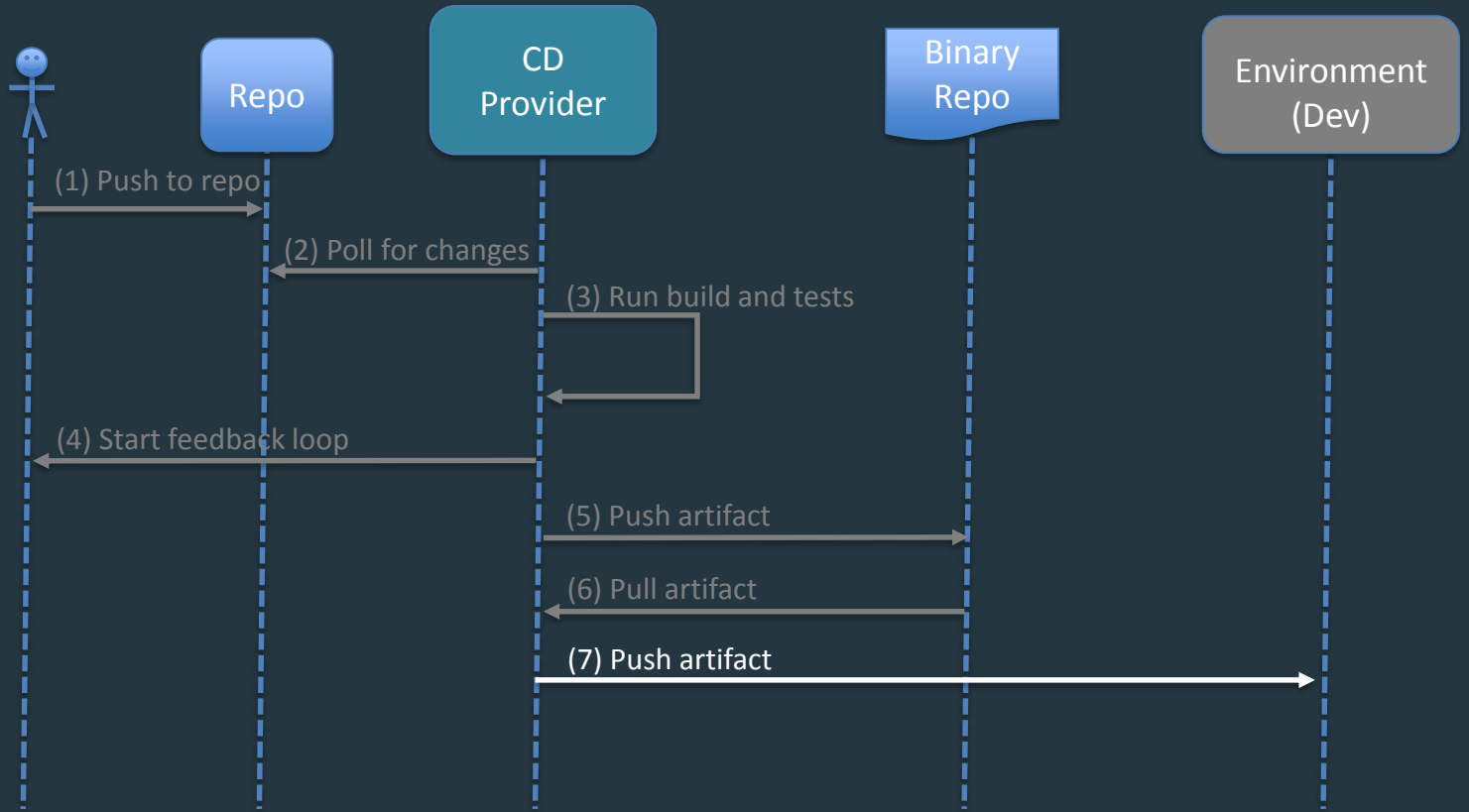

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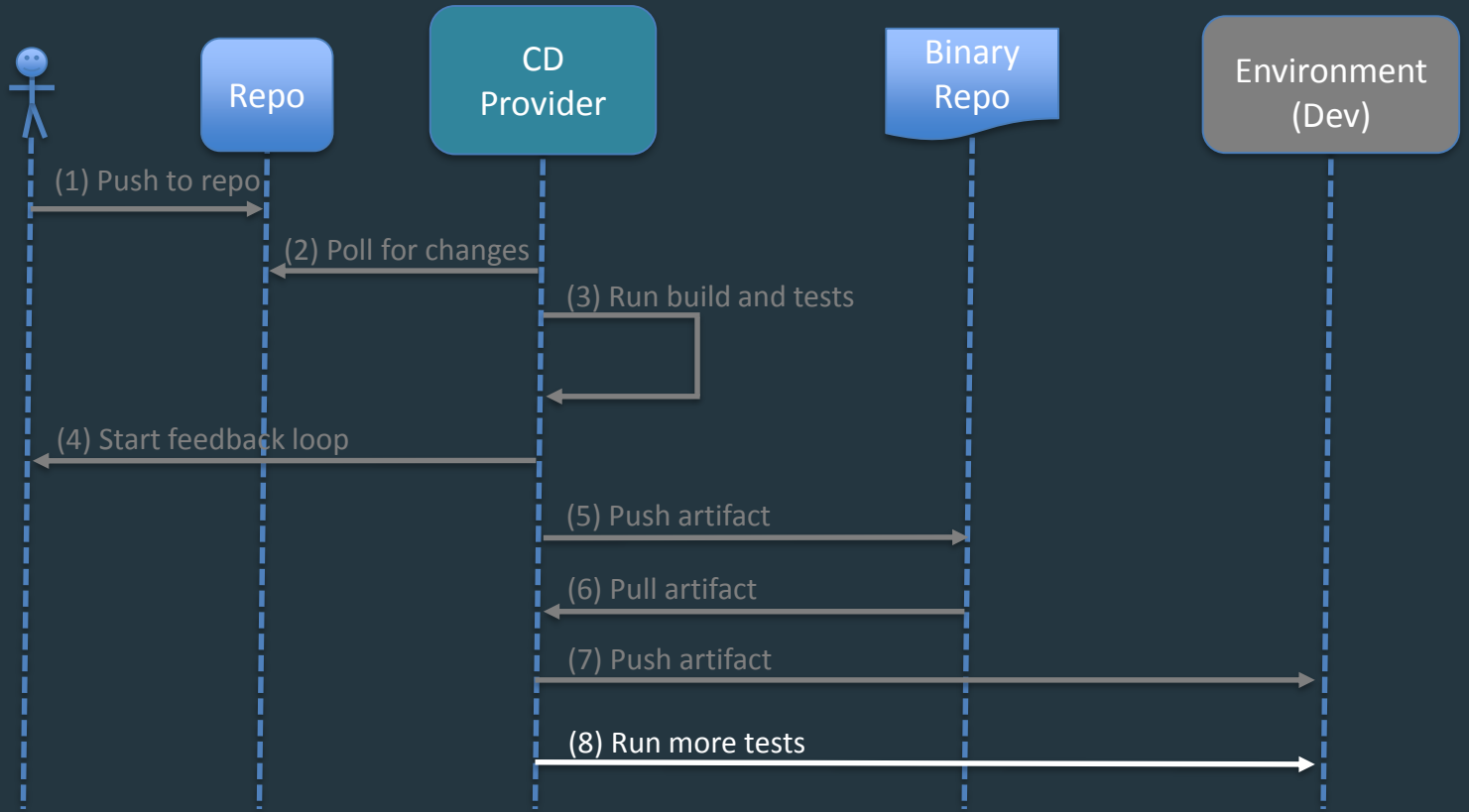

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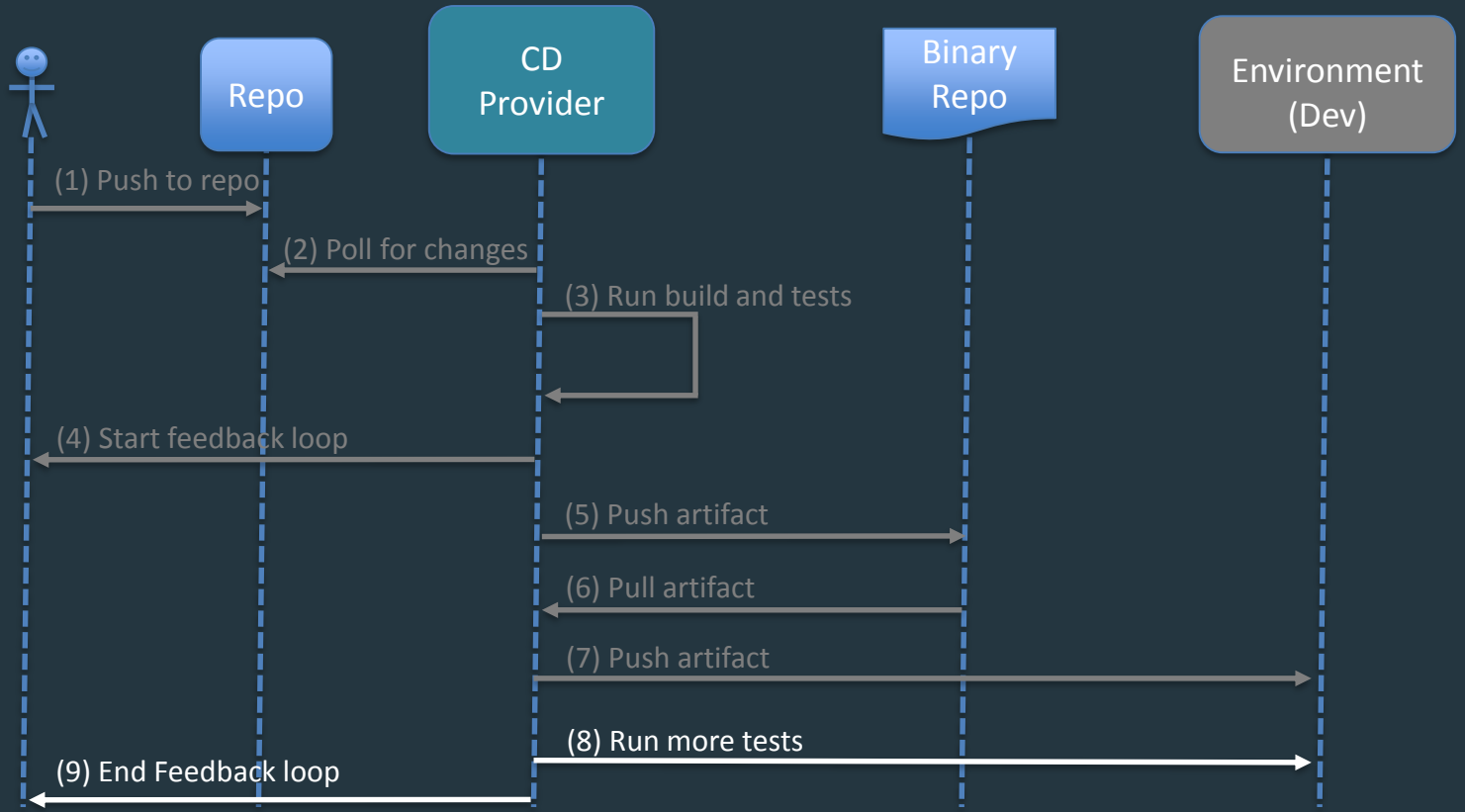

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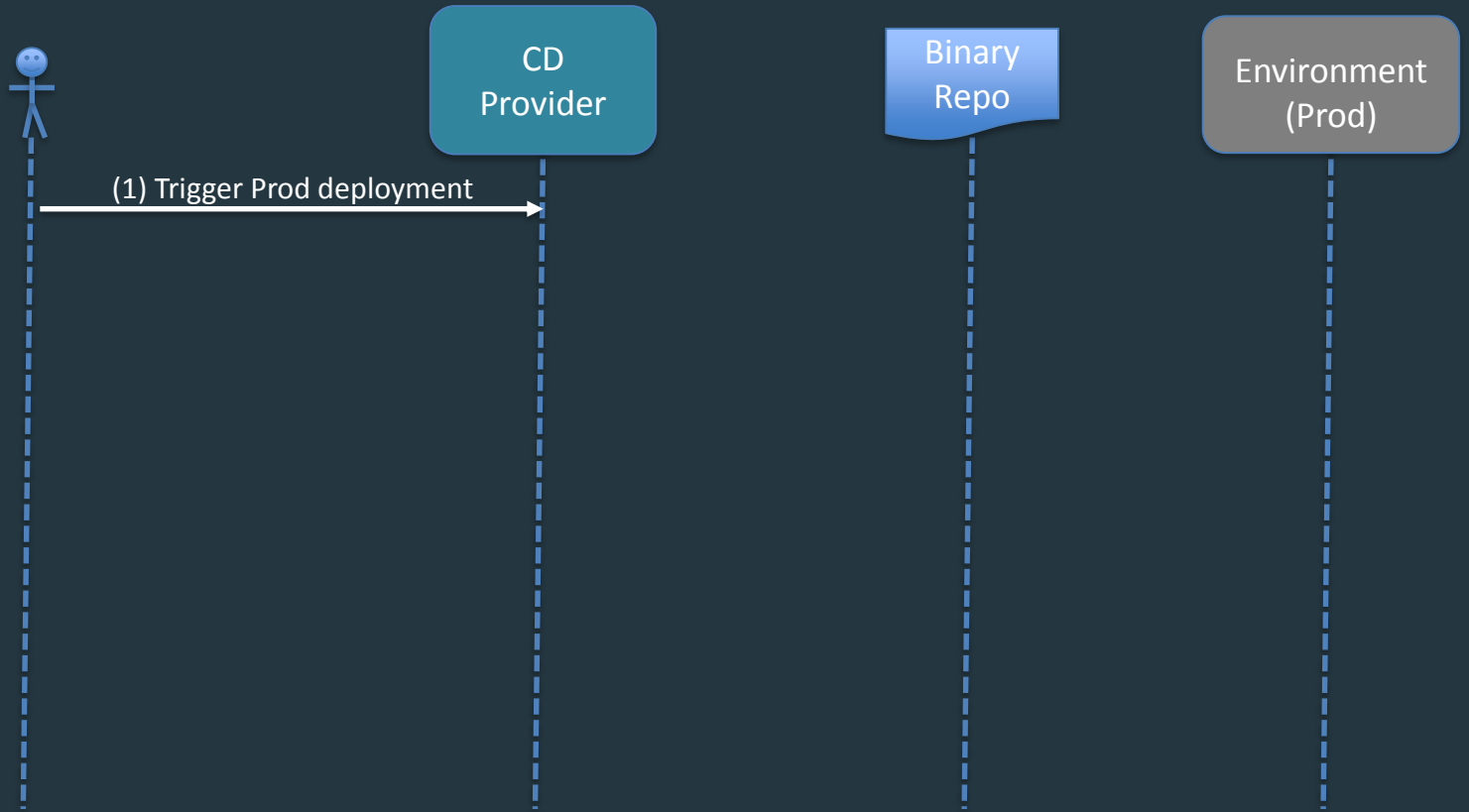

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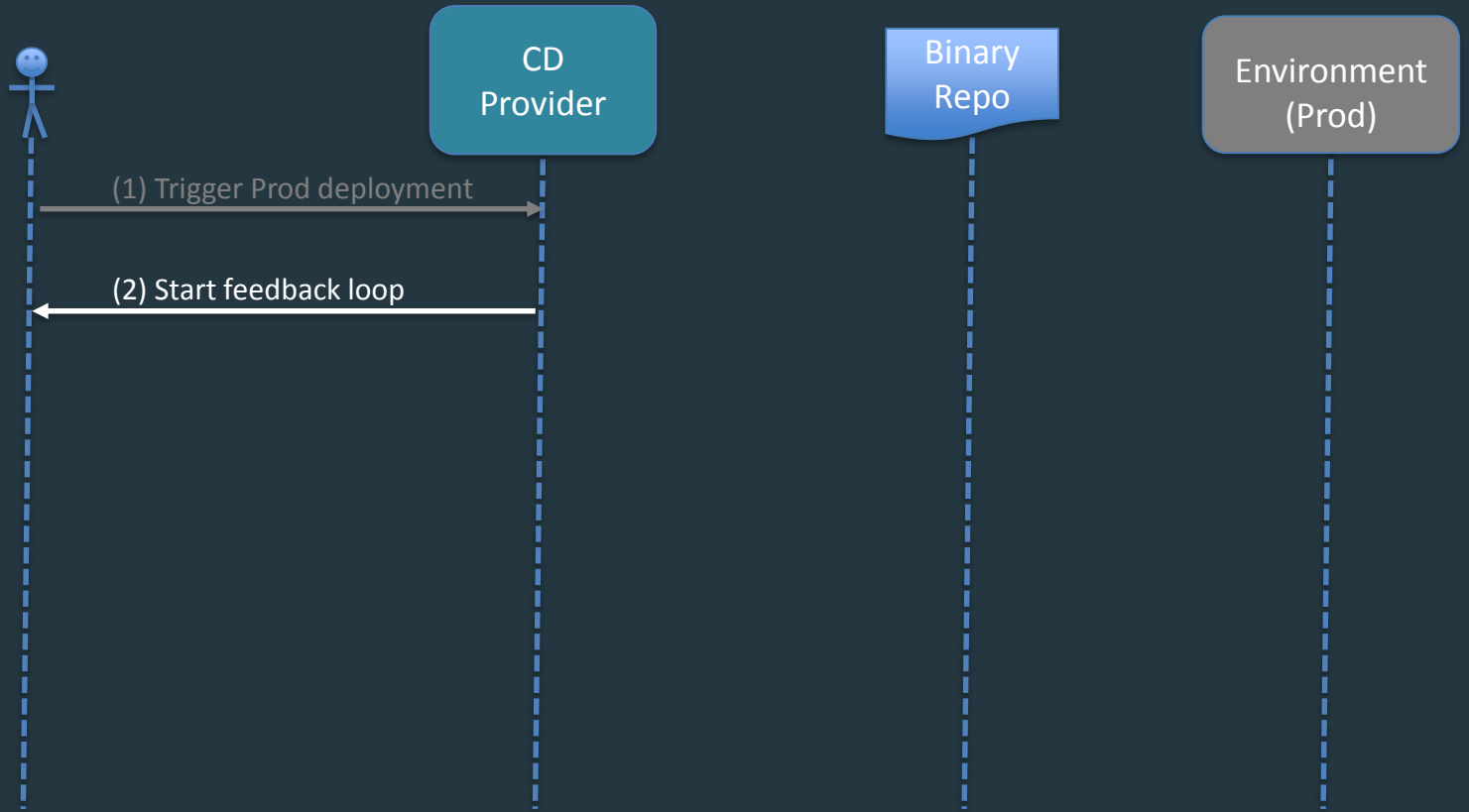

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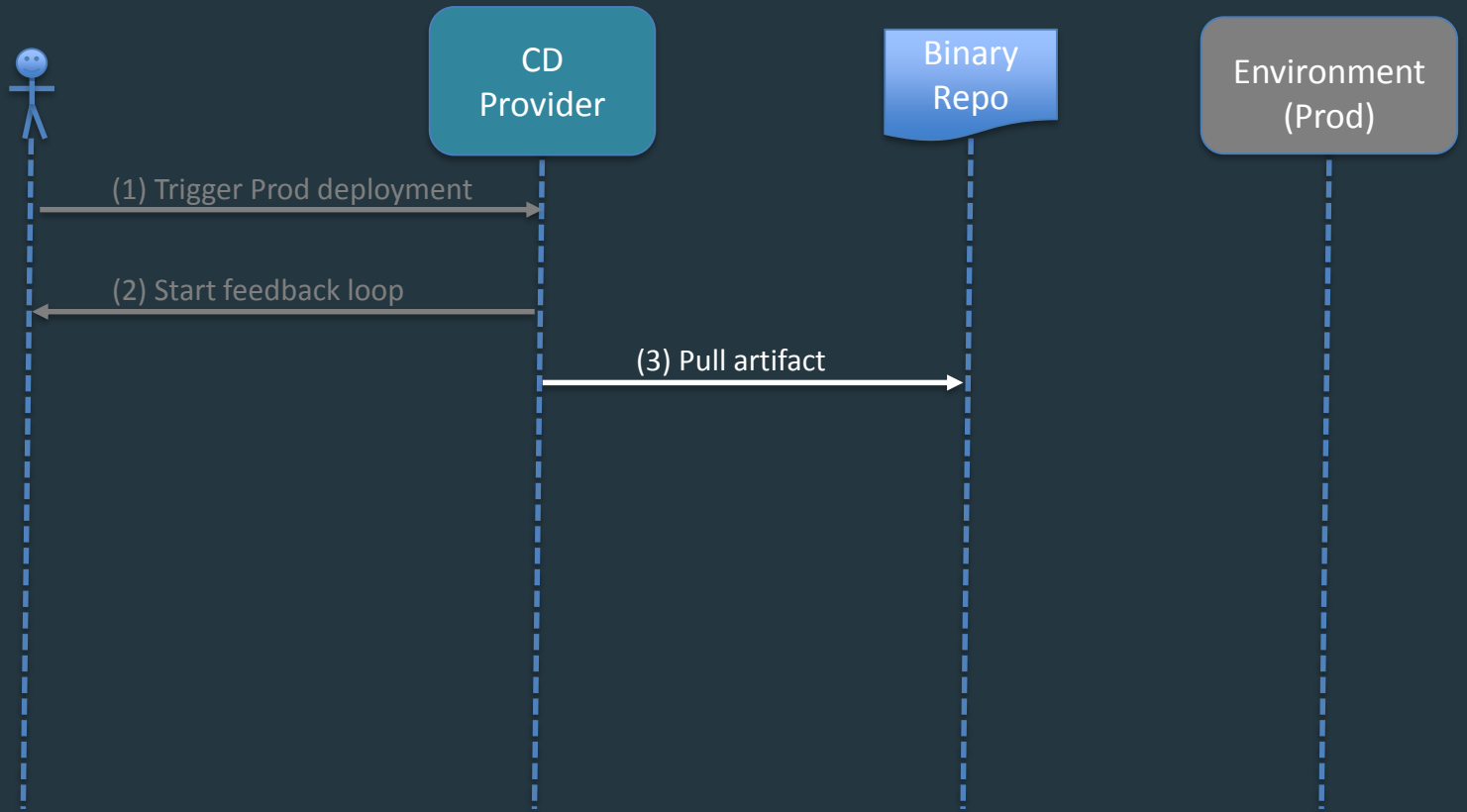

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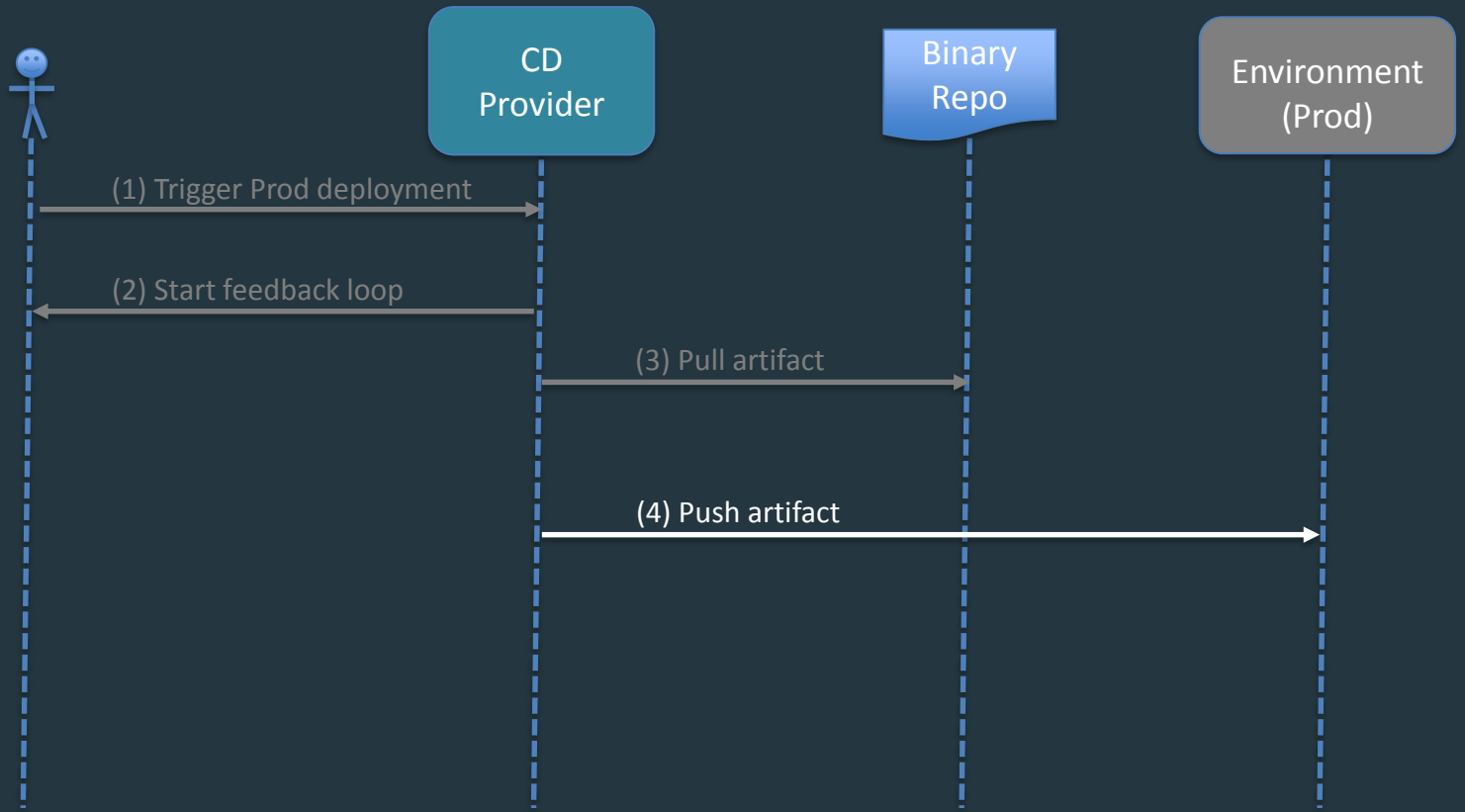

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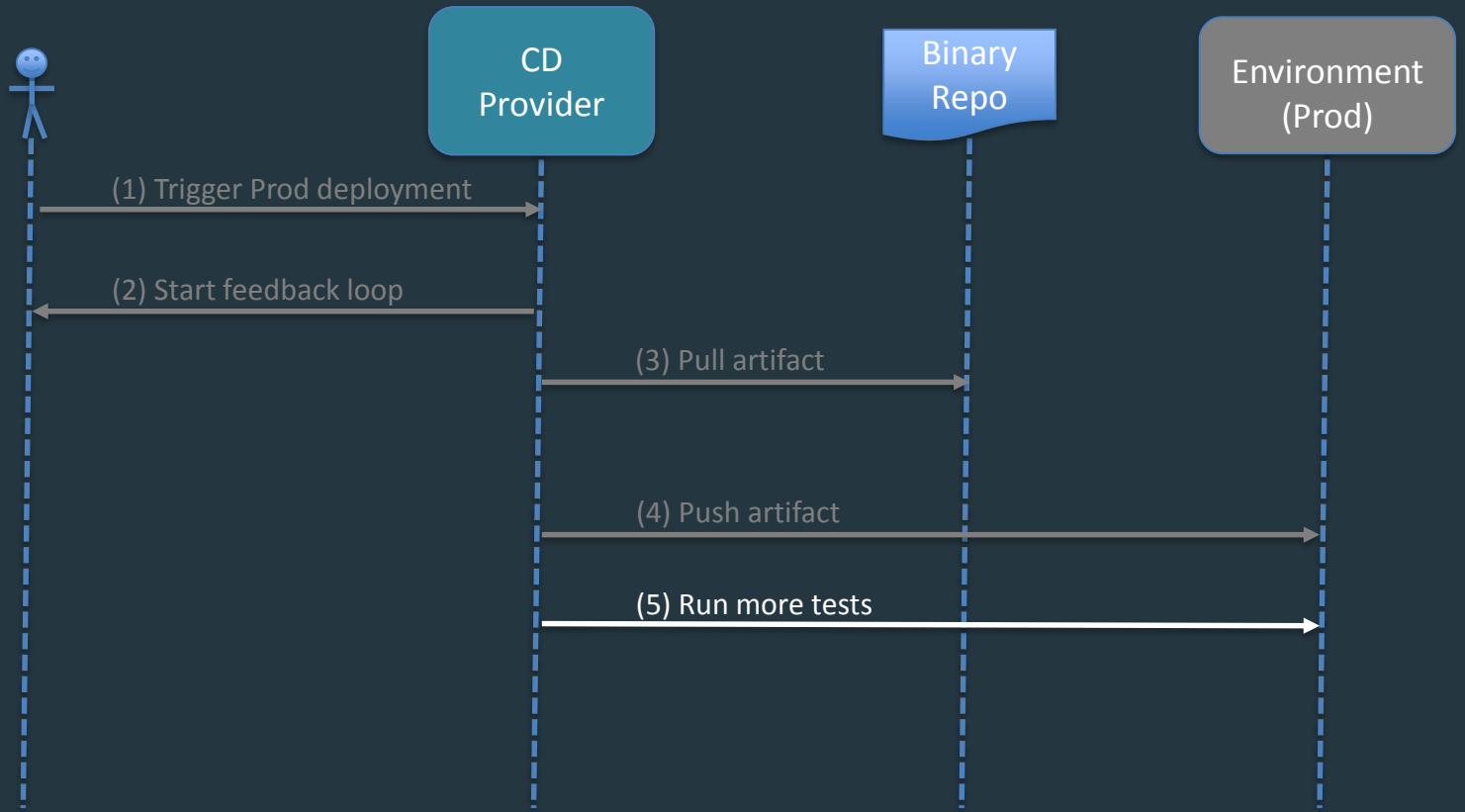

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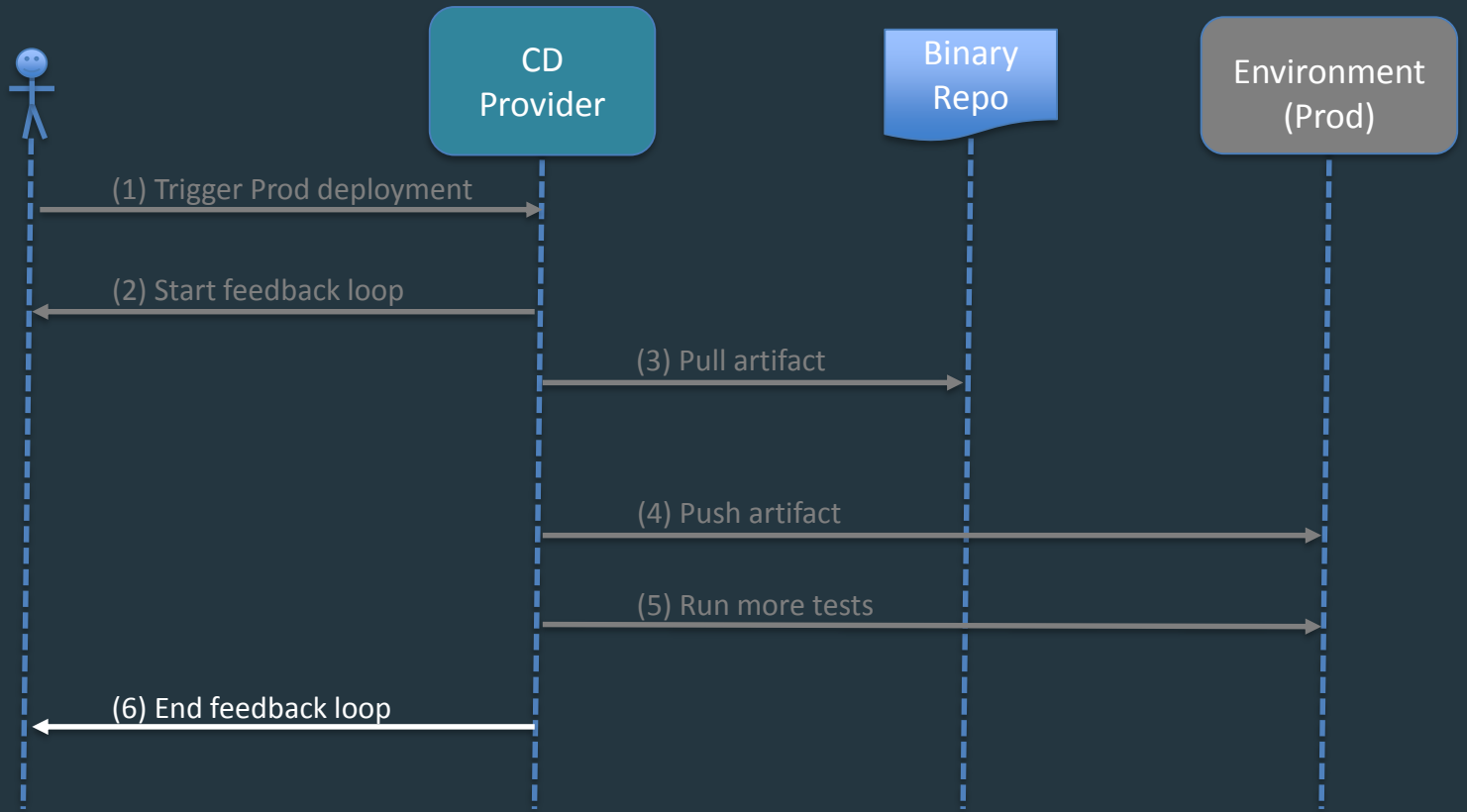

# Agenda

1. Define Continuous Delivery
2. Pivotal Cloud Foundry Enables Continuous Delivery

# Get a new app environment in seconds.

Have complete consistency between environments.

Have a consistent API to automate deployments.

# Inject environment specific configuration.

Promote apps through environments with the same process.

Pivotal
Transforming How The World Builds Software