

Section 3

Establishing a DevOps Culture



In this Section, we are going to take a look at...

- Traditional SDLC versus DevOps SDLC
- Service ownership
- Hack events
- Game days – Destructive testing
- Agile/Cross – Functional teams

Video 3.1

Traditional Versus DevOps SDLC



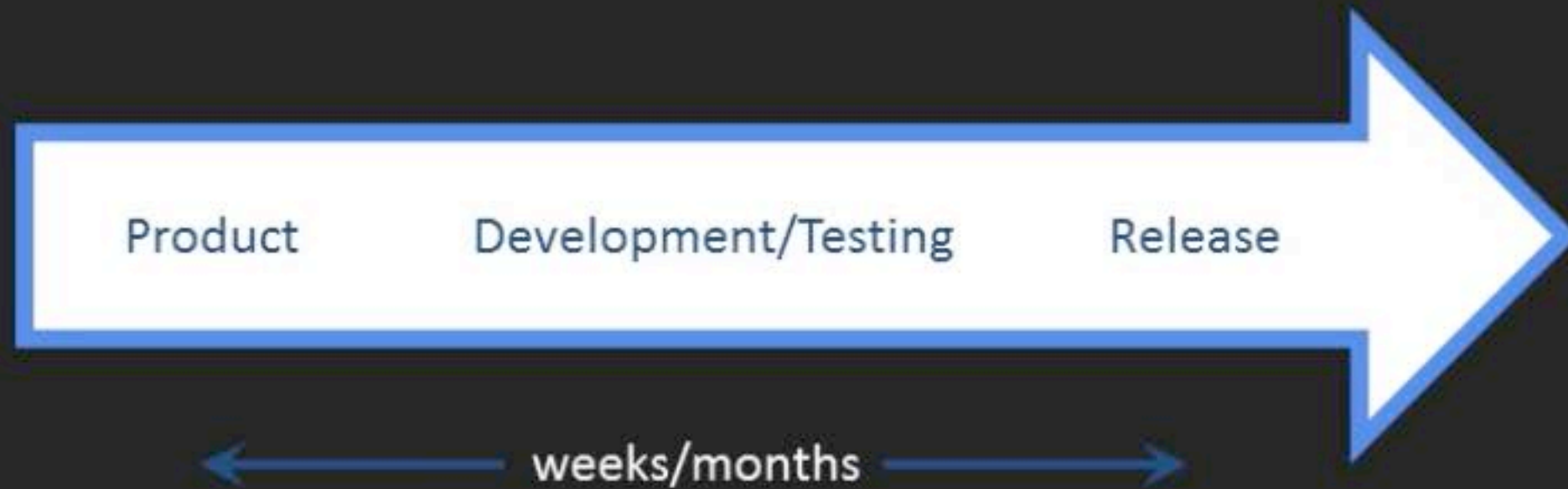
In this Video, we are going to take a look at...

- The traditional software development lifecycle (SDLC)
- Problems with the traditional SDLC
- A DevOps SDLC
- How a DevOps SDLC relates to the 3 ways

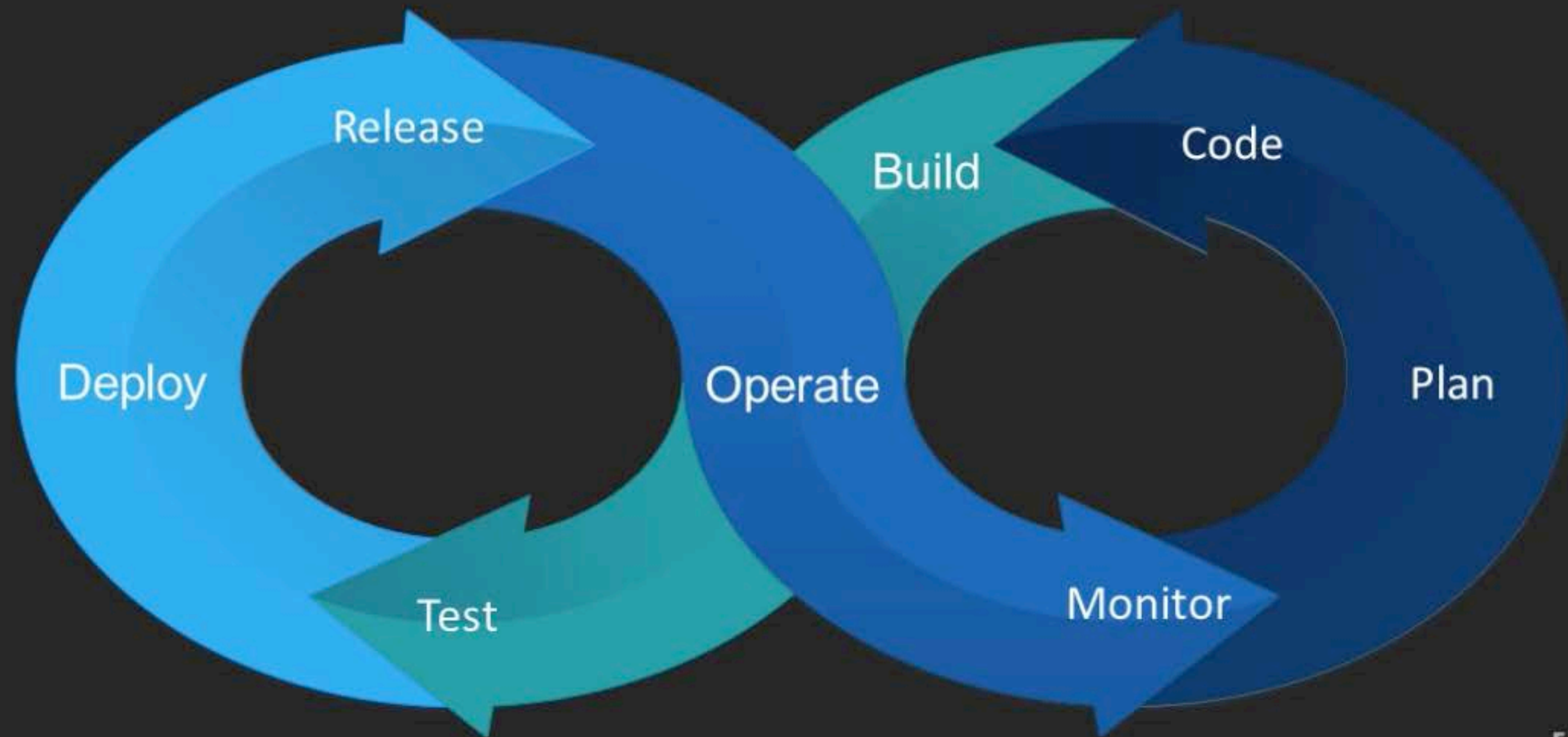
Traditional SDLC



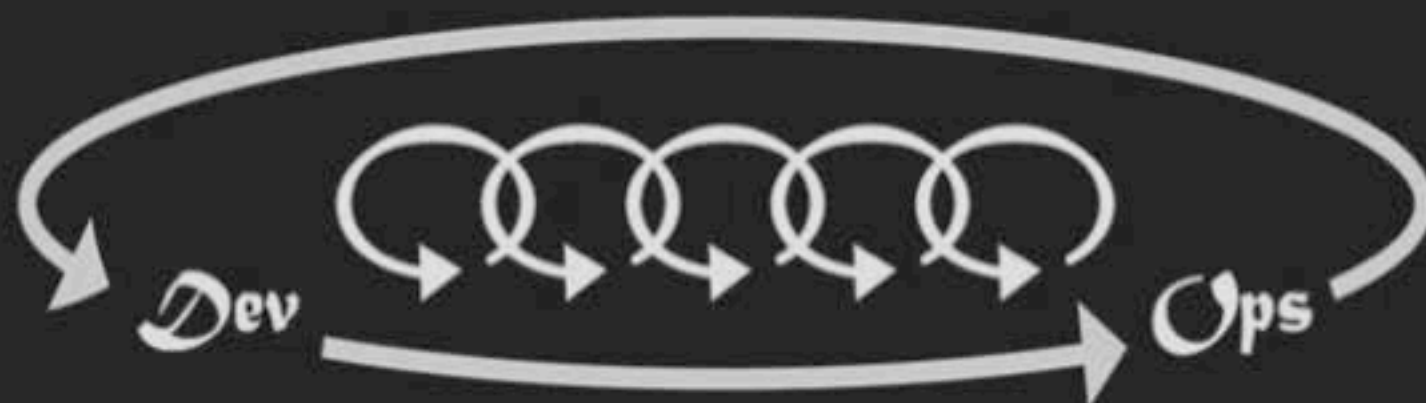
Traditional SDLC



DevOps SDLC



The Three Ways



Next Video

Service Ownership

Dave Mangot

Video 3.2

Service Ownership



You Wrote It, You Run It



Werner Vogels

You Wrote It, You Run It



Google SRE Teams



www.google.com

Google SRE Teams

Google

www.google.com



Feature Flags



Feature Flags

- Button color green or blue
- New algorithm activation
- What percentage of customers get a certain experience
- Which customers get an experience
- Turn a feature on or off



Dark Launches



Next Video

Hack Events

Dave Mangot

Video 3.3

Hack Events



What? Why?

HACK-A-THON

- Technology you wanted to try
- Something to help with your daily work
- Group event
- No guarantees, except
- Always a success

How Do I Run a Hack Event?

- How long should it be
- What are the prizes, How are they decided



How Do I Run a Hack Event?

- How long should it be
- What are the prizes, How are they decided
- Who can participate
- Presentation format



Hack Week??



Next Video

Destructive Testing

Dave Mangot

Video 3.4

Destructive Testing



Why Destructive Testing?



Definition of Done



- How do I know when my service is ready for production
- Go Live checklist
- Include destructive testing

Definition of Done



- How do I know when my service is ready for production
- Go Live checklist
- Include destructive testing
- Network failures, power failures, packet loss

Failure Fridays



pagerduty

Failure Fridays



- One service
- Ops team + Service team
- One hour

Next Video

Cross-Functional Teams

Dave Mangot

Video 3.5

Cross-Functional Teams



In this Video, we are going to take a look at...

- Why cross functional teams
- How do they work
- What are the results

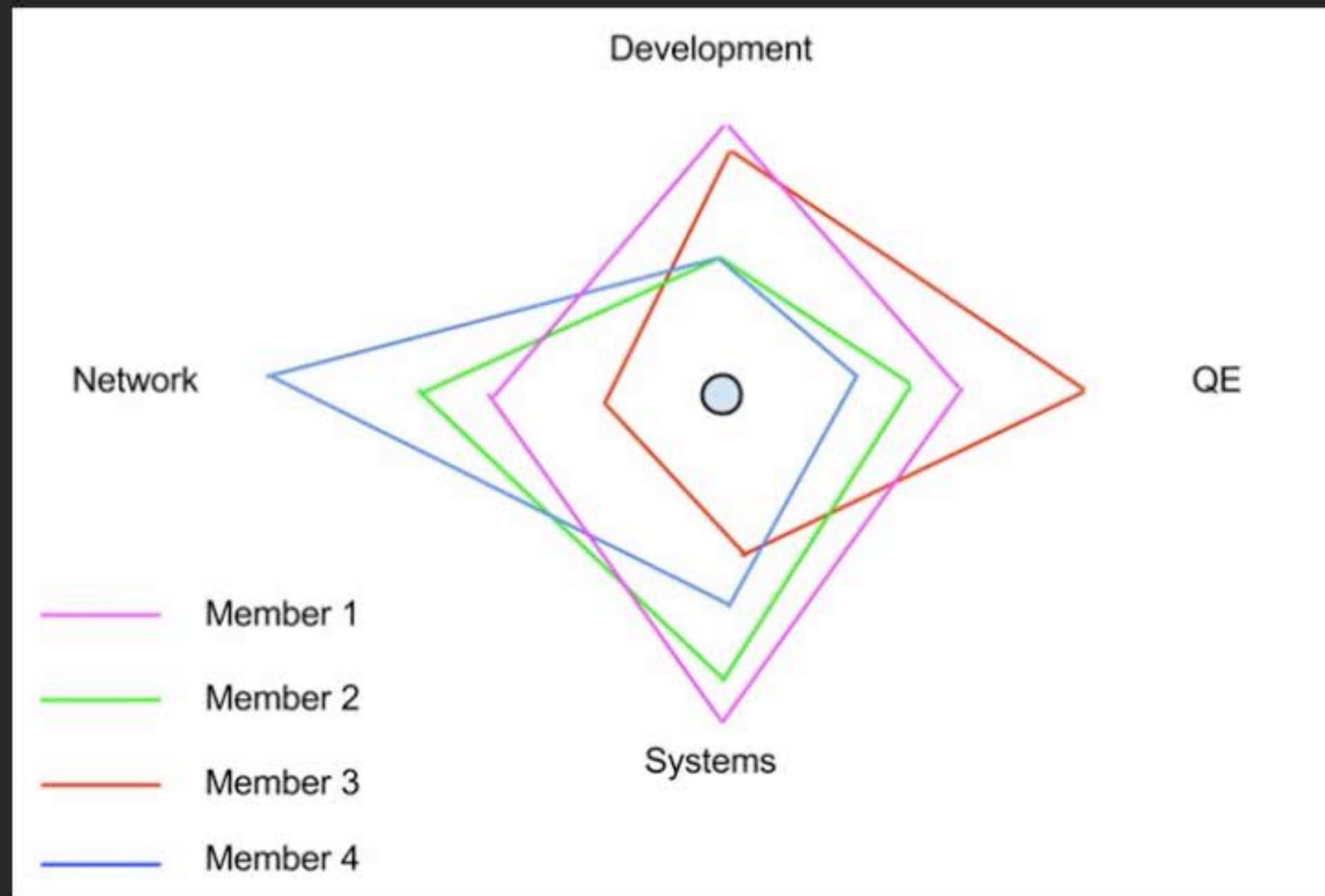
Why Cross-Functional Teams?



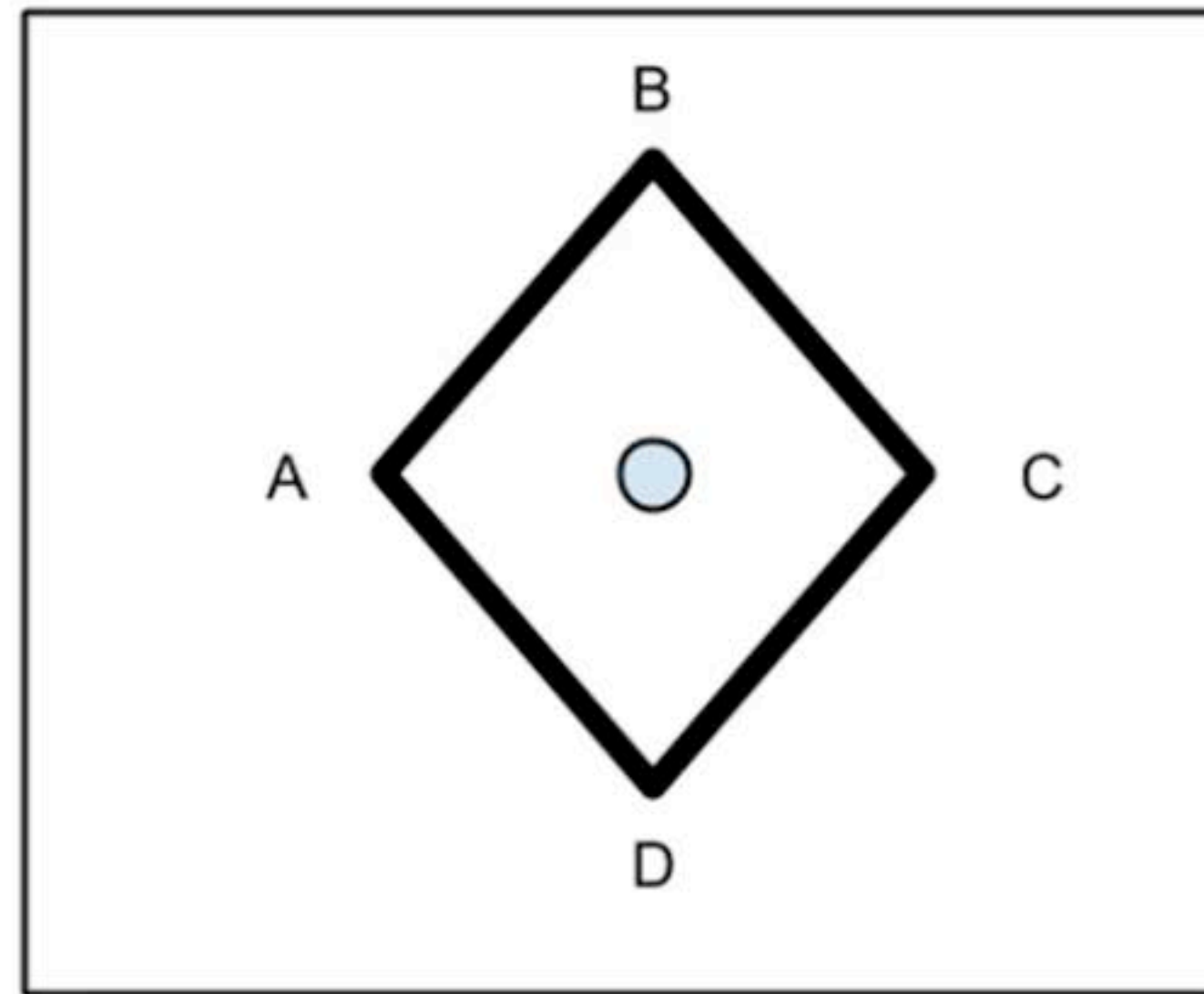
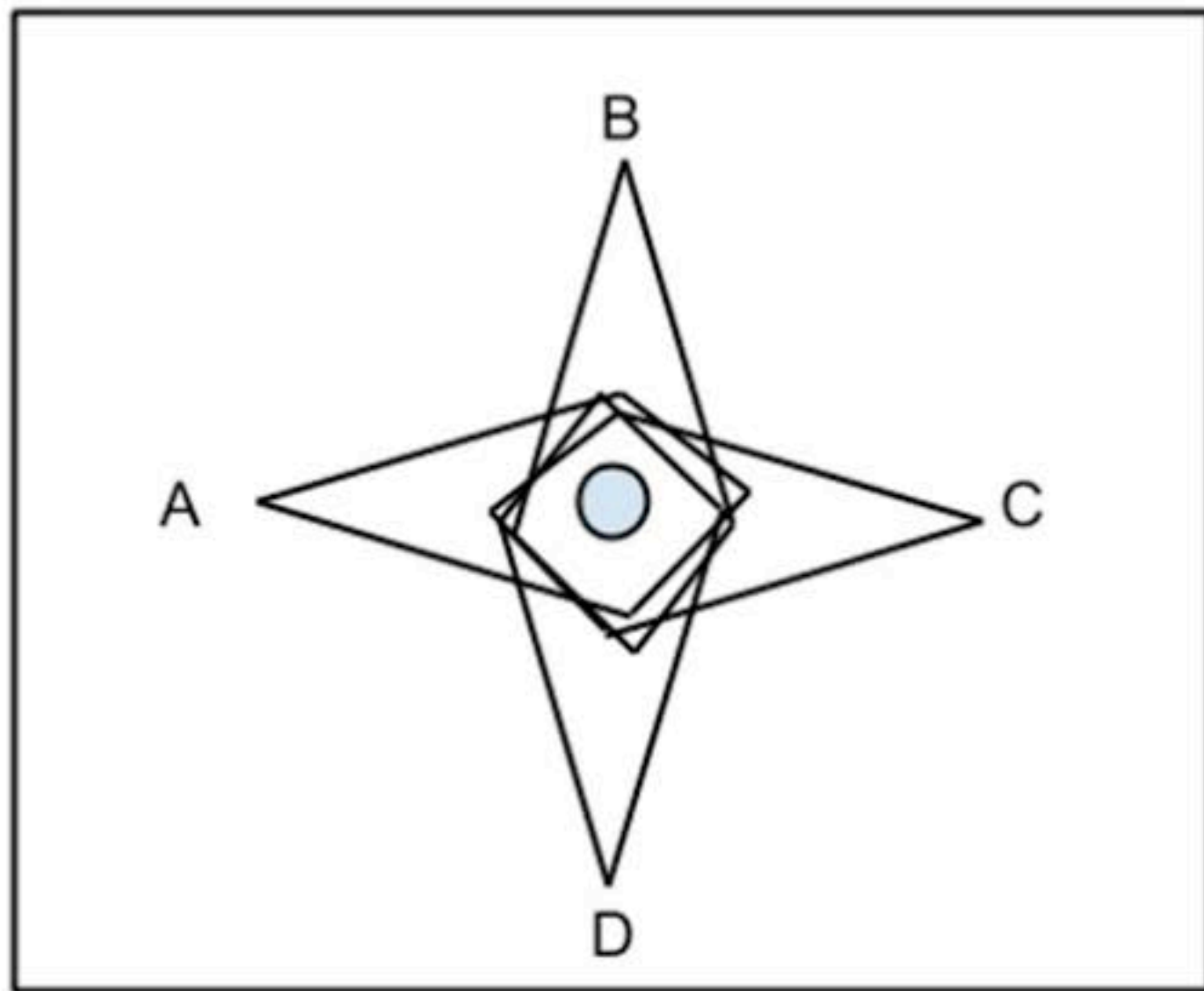
How Do They Work?



How Do They Work?



What Are the Results?



What Are the Results?



Summary

- Traditional SDLC versus DevOps SDLC
- Service ownership
- Hack events
- Destructive testing
- Cross-functional teams

Next Section

Automation - Configuration Management

Section 4

Automation – Configuration Management

