



# lunar ops

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# DevOps **Transformation**

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# Introduction

# **Who am I?**

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# Dale-Kurt Murray

- Director of Engineering & Operations, Lunar Ops, Inc.
- Started Lunar Ops, Inc. in 2018
- Worked with development teams (remotely)
- An advocate for DevOps
- Yes — I do answer to "Dale"



# What we'll cover

- What is DevOps?
- DevOps as a Culture
- A DevOps Story
- Getting Started

Why does

# **DevOps matter?**

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# Why does DevOps matter?

**5x**

**440x**

**46x**

**44%**

Lower chance failure  
rate

Faster from commit to  
deploy

More frequent  
deployments

More time spent on  
new features and code

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# What is DevOps?

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# What is DevOps?

- Cultural Philosophies
- Practices
- Tools

# DevOps as a Culture

- Development and Operations teams coming together
- Shared Responsibility
- Ownership
- Visibility and Communication

# A DevOps Story

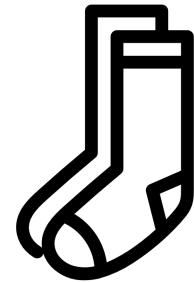
# **The Sock Shop**

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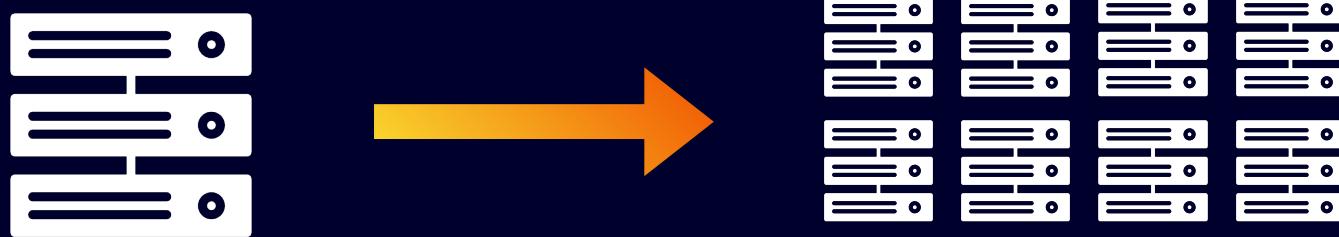
# The Sock Shop

The Sock Shop is an e-commerce website that sells socks.



# Microservices

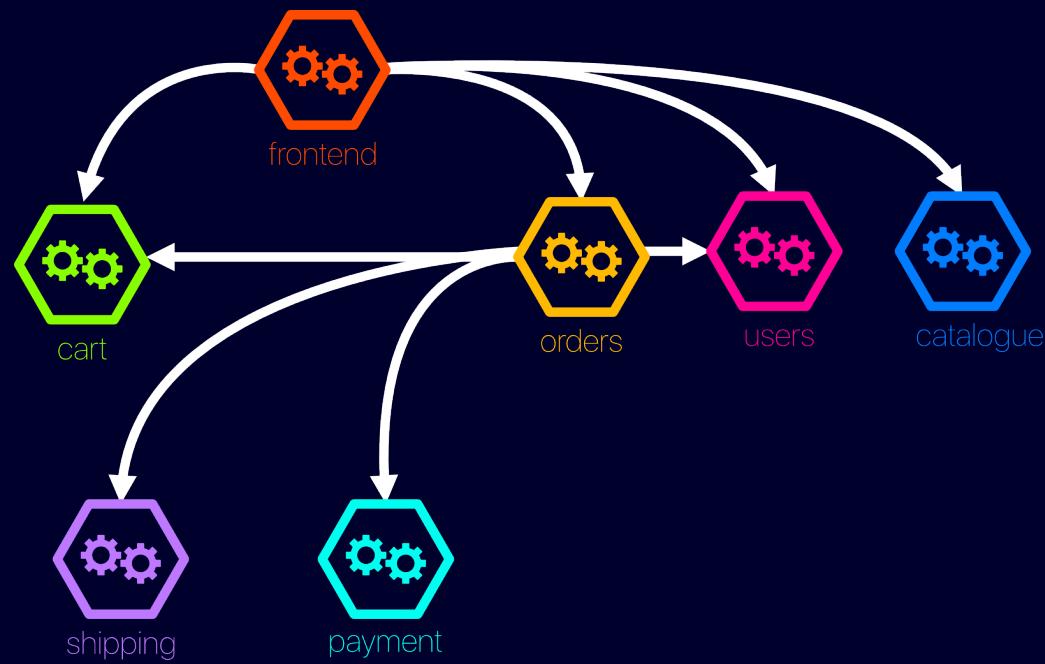
Microservices allow us to move away from the “monolithic” application architecture to several individual services.



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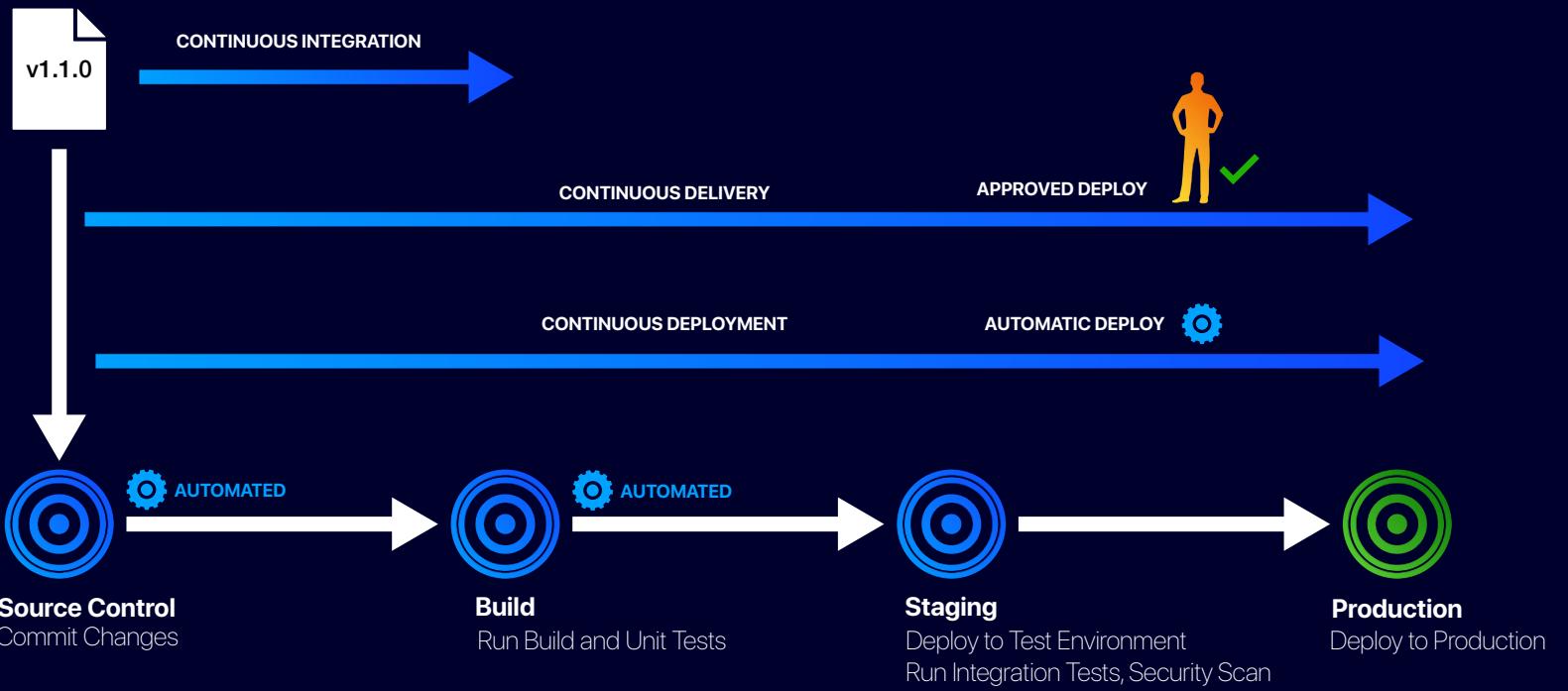
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# Microservices Architecture



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# Infrastructure as code

- Model your resources using code

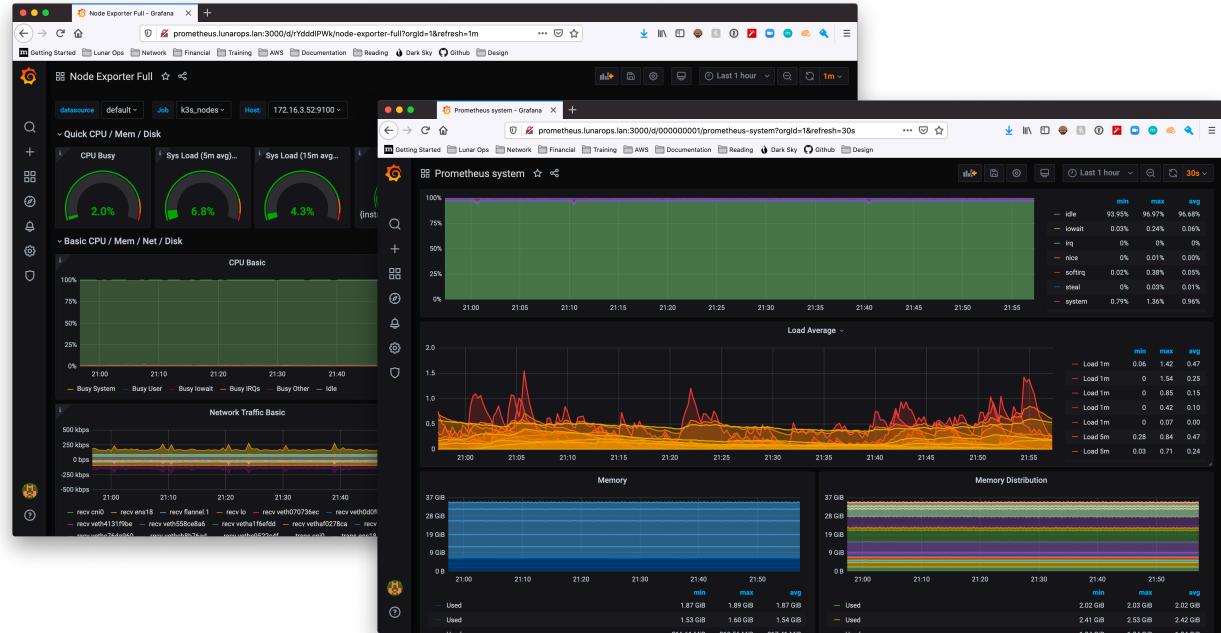
```
terraform {  
    required_providers {  
        aws = {  
            source  = "hashicorp/aws"  
            version = "~> 2.70"  
        }  
    }  
  
    provider "aws" {  
        profile = "default"  
        region  = "us-west-2"  
    }  
  
    resource "aws_instance" "example" {  
        ami           = "ami-830c94e3"  
        instance_type = "t2.micro"  
    }  
  
    output "public_ip" {  
        value = aws_instance.example.ip_address  
    }  
}
```

# DevOps Transformation

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# Monitoring and Logging



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# The Benefits **Of DevOps**

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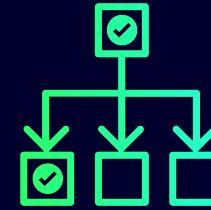
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Improved  
Collaboration



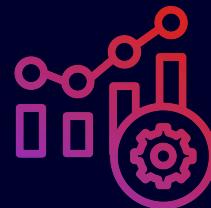
Rapid  
Delivery



Reliability



Security



Scale



Speed

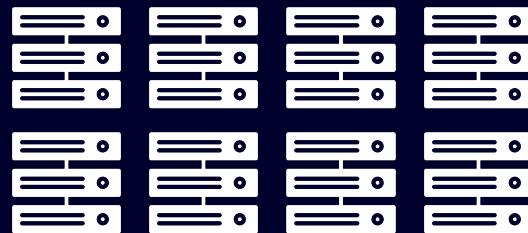
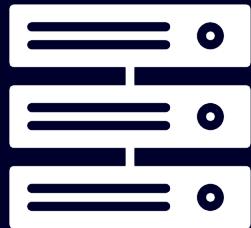
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# Build Your **Team**

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# DevOps Transformation



Monolithic Application +  
Teams

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Microservices + 2 Pizza Teams



Team Alpha



Team Bravo



Team Charlie

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Where do I  
**Start?**

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# Questions



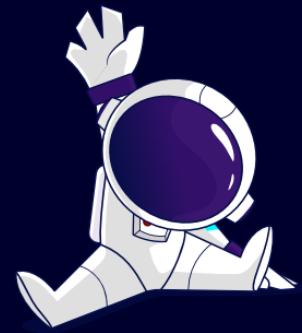
Send your questions to [hello@lunarops.io](mailto:hello@lunarops.io)

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# Thank You!

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