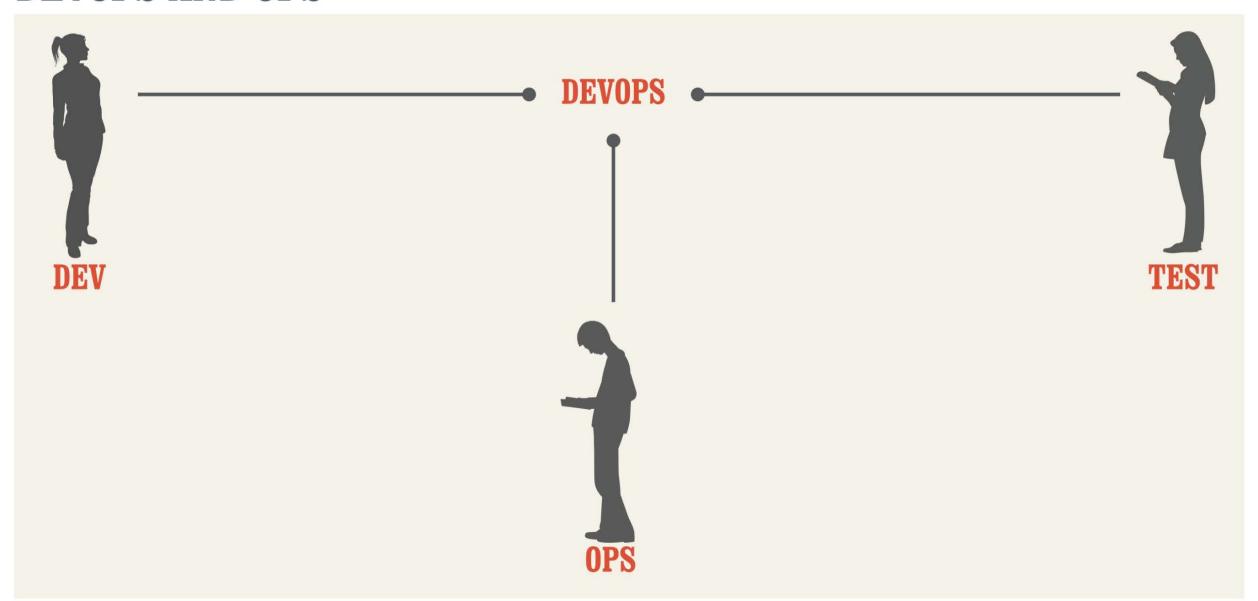
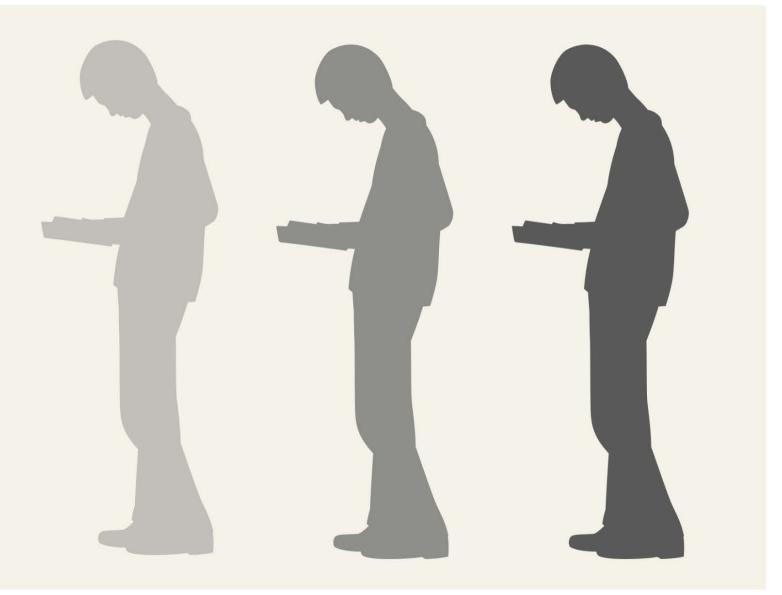
CONTINUOUS DELIVERY & DEVOPS WEEK 3 THE 99% OF YOUR CODE YOU DON'T WRITE

DEVOPS AND OPS



CONTINUOUS DELIVERY & DEVOPS WEEK 3 THE JOBS OF OPS

WHO IS THIS OPS PERSON?



CONTINUOUS DELIVERY & DEVOPS WEEK 3 THE JOBS OF OPS

TARGET OUTCOMES

High Availability Low Latency Efficiency (Cost)

Designing

Designing process & parameters

Deciding on standard components

Designing System Topology

Designing Dev. + Live Environments

Selecting Tools

Deploying

Forecasting & planning

Adding new resources

Networking

Maintaining

Updating custom/product code & config.
Updating OS & supporting packages
Troubleshooting/Problem Isolation

Monitoring

Detecting outages and degradation

Monitoring demand and load

Designing

Designing process & parameters

Deciding on standard components

Designing System Topology

Designing Dev. + Live Environments

Selecting Tools

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CONTINUOUS DELIVERY & DEVOPS WEEK 3 THE JOB OF DESIGNING

Designing

Designing Parameters & Processes

Designing System Topology

Designing Dev. + Live Environments

Selecting Tools

Deploying

Forecasting & Planning

Adding New Resources

Networking

Maintaining

Updating Custom/Product Code & Config.
Updating OS & Supporting Packages
Troubleshooting/Problem Isolation

Monitoring

Detecting Outages and Degradation

Monitoring demand and load

CONTINUOUS DELIVERY & DEVOPS WEEK 3 THE JOB OF DEPLOYING

Designing

Designing Parameters & Processes

Designing System Topology

Designing Dev. + Live Environments

Selecting Tools

Deploying

Forecasting & Planning

Adding New Resources

Networking

Maintaining

Updating Custom/Product Code & Config.
Updating OS & Supporting Packages
Troubleshooting/Problem Isolation

Monitoring

Detecting Outages and Degradation

Monitoring demand and load

ADDING NEW RESOURCES

Baseline

App

Bins/Libs

08

ADDING NEW RESOURCES

Virtual Machine

App

App

Bins/Libs

Bins/Libs

08

08

Hypervisor

ADDING NEW RESOURCES

Virtual Machine

Арр

App

Bins/Libs

App

Bins/Libs

App

Bins/Libs

Bins/Libs

08

08

OS

Hypervisor

Physical Host

Docker Engine

Containers

CONTINUOUS DELIVERY & DEVOPS WEEK 3 THE JOB OF MAINTAINING

Designing

Designing Parameters & Processes

Designing System Topology

Designing Dev. + Live Environments

Selecting Tools

Deploying

Forecasting & Planning

Adding New Resources

Networking

Maintaining

Updating Custom/Product Code & Config.
Updating OS & Supporting Packages
Troubleshooting/Problem Isolation

Monitoring

Detecting Outages and Degradation

Monitoring demand and load

UPDATING CUSTOM/PRODUCT CODE & CONFIG.

Containers

App

App

Bins/Libs

Bins/Libs

Docker Engine

08

UPDATING OS & SUPPORTING PACKAGES

Containers

App

App

Bins/Libs

Bins/Libs

Docker Engine

08

TROUBLESHOOTING/PROBLEM ISOLATION

Containers

App

App

Bins/Libs

Bins/Libs

Docker Engine

08

CONTINUOUS DELIVERY & DEVOPS WEEK 3 THE JOB OF MONITORING

Designing

Designing Parameters & Processes

Designing System Topology

Designing Dev. + Live Environments

Selecting Tools

Deploying

Forecasting & Planning

Adding New Resources

Networking

Maintaining

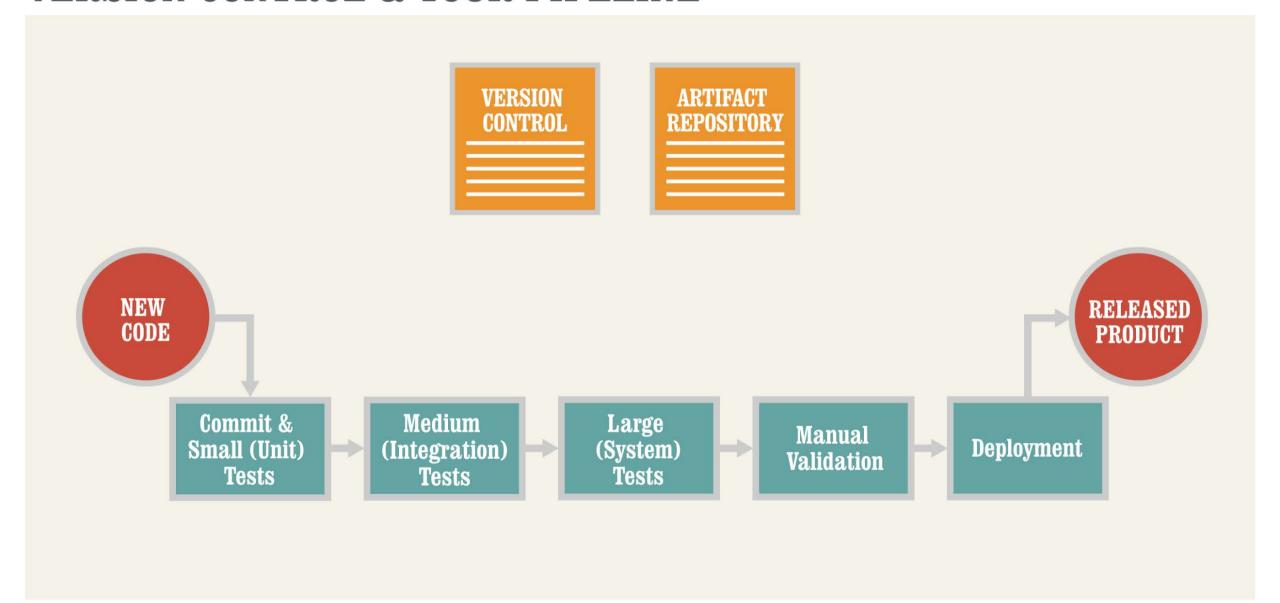
Updating Custom/Product Code & Config.
Updating OS & Supporting Packages
Troubleshooting/Problem Isolation

Monitoring

Detecting Outages and Degradation

Monitoring demand and load

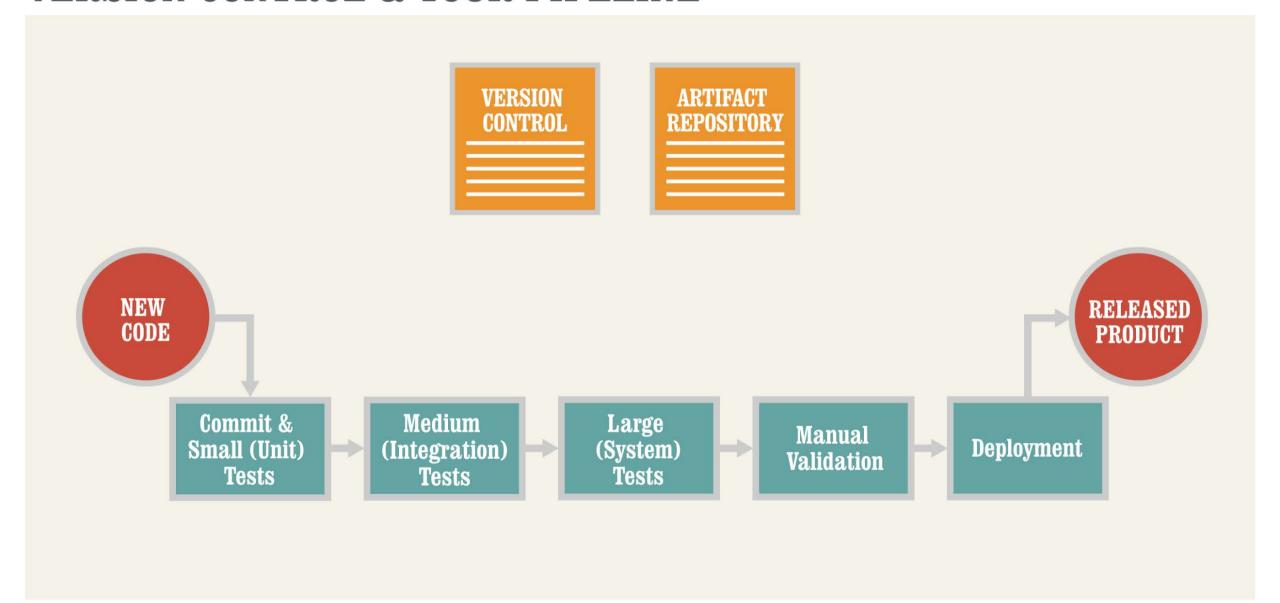
VERSION CONTROL & YOUR PIPELINE





CONTINUOUS DELIVERY & DEVOPS WEEK 3 THE ROLE OF VERSION CONTROL

VERSION CONTROL & YOUR PIPELINE



CONTINUOUS DELIVERY & DEVOPS WEEK 3 WHAT'S UNDER THE HOOD?

WHAT'S UNDER THE HOOD?

Baseline

App

Bins/Libs

08

Physical Host

Virtual Machine

App App

Bins/Libs Bins/Libs

OS

0\$

Hypervisor

Physical Host

Containers

App

App

Bins/Libs

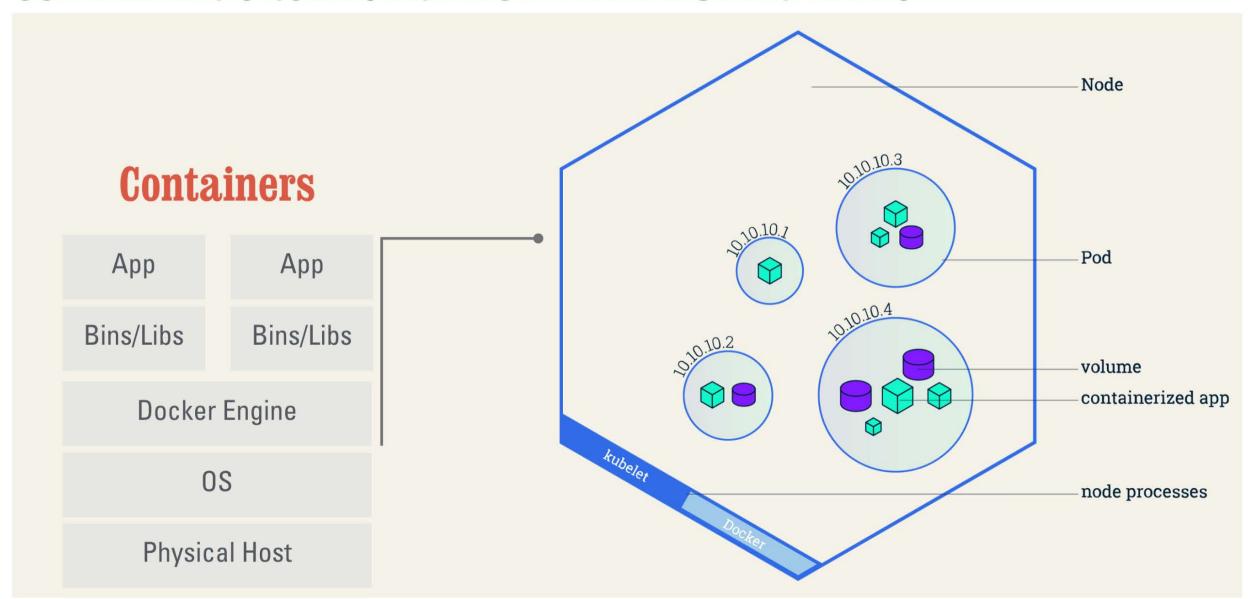
Bins/Libs

Docker Engine

08

CONTINUOUS DELIVERY & DEVOPS WEEK 3 KUBERNETES AND CONTAINER ORCHESTRATION

CONTAINER ORCHESTRATION WITH KUBERNETES



source: <u>kubernetes.io</u>