

Resources

Would you like to know more? This bibliography provides links to the topics, tools, and resources we reference, as well as additional resources you may find useful as you get into more depth on particular subjects. DevOps is a huge area, so our approach in this course is to prepare you to be able to learn more about it on your own.

Chapter 1: DevOps Basics

Articles

[“The Amazing DevOps Transformation of the HP LaserJet Firmware Team”](#) by Gene Kim
[“The Andon Cord”](#) by John Willis
[“Blameless Postmortems and a Just Culture”](#) by John Allspaw
[“Inversion of Control Containers and Dependency Injection Pattern”](#) by Martin Fowler
[“DevOps Culture”](#) by John Willis
[“DevOps Toolchain”](#) from Wikipedia
[“How Complex Systems Fail”](#) by Dr. Richard Cook
[“Incident Command for IT: What We Can Learn from the Fire Department”](#) by Brent Chapman
[“Keys to SRE”](#) by Ben Treynor
[“People over Process over Tools”](#) by Alex Honor
[“The Three Ways”](#) by Gene Kim
[“Transparent Uptime”](#) by Lenny Rachitsky
[“What DevOps Means to Me”](#) by John Willis

Books

[Continuous Delivery](#) by Jez Humble and David Farley
[Leading the Transformation](#) by Gary Gruver and Tommy Mouser
[The Visible Ops Handbook](#) by Gene Kim, Kevin Behr, and George Spafford

Reports

The State of DevOps Report from Puppet Labs ([2015](#)) ([2016](#)) ([2017](#)) ([2018](#)) ([2019](#))

Tools and Services

[Chaos Monkey](#) from Netflix

Chapter 2: DevOps: A Culture Problem

Courses

[DevSecOps: Tips for Success](#) with James Wickett

Articles

[“5 Whys”](#) from Wikipedia

[“10+ Deploys Per Day: Dev and Ops Cooperation at Flickr”](#) by John Allspaw and Paul Hammond

[“adidas DevOps Maturity Framework”](#) from adidas

[“Blameless Postmortems and a Just Culture”](#) by John Allspaw

[“Conway’s Law”](#) from Wikipedia

[”DevOps Culture”](#) by Rouan Wilsenach

[“Dunbar’s Number”](#) from Wikipedia

[“A Guideline for Postmortem Communication”](#) by Lenny Rachitsky

[“Hanlon’s Razor”](#) from Wikipedia

[“Is Your Team Too Big? Too Small? What’s the Right Number?”](#) from the Wharton School

[”Kaizen”](#) from Wikipedia

[“Kaizen Glossary”](#) from the Kaizen Institute

[”Operations Maturity Model”](#) from Chef.io

[“Parkinson’s Law”](#) from Wikipedia

[“Ringelmann Effect”](#) from Wikipedia

[“Shadow IT”](#) from Wikipedia

[“Toyota Kata”](#) from Wikipedia

[“A Typology of Organisational Cultures”](#) by Ron Westrum

[“What Is DevOps?”](#) by Damon Edwards

[“When In Japan...”](#) by Ryan Day

Books

[Crucial Conversations](#) by Kerry Patterson, Joseph Grenny, Ron McMillan, and Al Switzler

[Effective DevOps](#) by Jennifer Davis and Ryn Daniels

[Getting to Yes](#) by Roger Fisher and William L. Ury

[How to Say It at Work](#) by Jack Griffin

[How to Win Friends and Influence People](#) by Dale Carnegie

[The No A**hole Rule](#) by Robert I. Sutton

[The Phoenix Project](#) by Gene Kim, Kevin Behr, and George Spafford

[The Unicorn Project](#) by Gene Kim

[Web Operations](#) by John Allspaw and Jesse Robbins

Examples

[Public Status Page](#) from Rackspace

Tools and Services

[Hubot](#), a chatbot from the team at GitHub

Chapter 3: The Building Blocks of DevOps

Courses

[DevOps Foundations: Lean and Agile](#) with Karthik Gaekwad and Ernest Mueller

Articles

[“DevOps Culture”](#) by John Willis

[“A DevOps Manifesto”](#) by Ernest Mueller

[“ITIL”](#) from Wikipedia

[“ITSM”](#) from Wikipedia

[“Lean Manufacturing”](#) from Wikipedia

[”Manifesto for Agile Software Development”](#)

[”Principles behind the Agile Manifesto”](#)

[“Value-Stream Mapping”](#) from Wikipedia

Books

[Lean Software Development: An Agile Toolkit](#) by Mary Poppendieck and Tom Poppendieck

[The Lean Startup](#) by Eric Ries

[The Visible Ops Handbook](#) by Gene Kim, Kevin Behr, and George Spafford

Conferences

[Devopsdays, Ghent 2009](#)

[OpsCamp, Austin 2010](#)

Presentations

[”Agile Infrastructure”](#) by Andrew Clay Shafer

Reports

[Annual State of Agile Report](#) from VersionOne

Chapter 4: Infrastructure Automation

Courses

[DevOps Foundations: Infrastructure as Code](#) with Ernest Mueller and James Wickett

Articles

[“AMI Creation with Aminator”](#) by Michael Tripoli and Karate Vick

[“Blue-Green Deployment”](#) by Martin Fowler

[“Canary Release”](#) by Danilo Sato

[“Configuration Management Database”](#) from Wikipedia

[”The CMDB Is Dead, Long Live the CMDB”](#) by Rhonabwy

[“Golden Image or Foil Ball”](#) by Luke Kanies

[“Immutable Delivery”](#) by John Willis

[“Immutable Server”](#) by Kief Morris

[“Infrastructure as Code”](#) by Martin Fowler

[“Server Provisioning”](#) from Wikipedia

Guides

[“Awesome Sysadmin tool list”](#) compiled by Francisco Augusto
[Infrastructures.org](#)

Presentations

[“Architectures for Open and Scalable Clouds”](#) by Randy Bias

Tools and Services

[Amazon ECS](#)

[Ansible](#)

[AWS CloudFormation](#)

[Azure Resource Manager Templates](#)

[CFEngine](#)

[Chef](#)

[Chefspect](#)

[Collins](#) from Tumblr

[Consul](#)

[Docker](#)

[Docker Swarm](#)

[etcd](#)

[Foodcritic](#)

[Google Kubernetes Engine](#)

[Habitat](#)

[Hadoop](#)

[Juju](#) from Ubuntu

[KitchenCI](#)

[Kubernetes](#)

[Mesos](#)

[Ohai](#)

[Puppet](#)

[Rancher](#)

[RuboCop](#)

[SaltStack](#)

[Terraform](#) from HashiCorp

[ZooKeeper for Hadoop](#)

Chapter 5: Continuous Delivery

Courses

[DevOps Foundations: Continuous Delivery/Continuous Integration](#) with Ernest Mueller and James Wickett

[DevSecOps: Automated Security Testing](#) with James Wickett

[DevSecOps: Building a Secure Continuous Delivery Pipeline](#) with James Wickett

Articles

[“Deming’s 14 Points for Management”](#) by W. Edwards Deming

[“What Is TDD, BDD, and ATDD?”](#) by Manoj Kumar

Books

[Chaos Engineering](#) by Casey Rosenthal and Nora Jones

[Continuous Delivery](#) by Jez Humble and David Farley

Tools and Services

Version Control

[Bitbucket](#)
[Git](#)
[GitHub](#)
[Perforce](#)
[Subversion](#)

Continuous Integration

[Bamboo](#)
[CircleCI](#)
[GoCD](#)
[Jenkins](#)
[TeamCity](#)
[Travis CI](#)

Build

[fpm](#)
[Gulp](#)
[Make](#)
[Maven](#)
[Packer](#)
[Rake](#)

Test

[ApacheBench](#)
[Cucumber](#)
[Cypress](#)
[FindBugs](#)
[Gauntlt](#)
[Gofmt](#)
[Golint](#)
[JMeter](#)
[JUnit](#)
[KitchenCI](#)
[Protractor](#)
[Robot Framework](#)

[RuboCop](#)
[Sauce Labs](#)
[Selenium](#)

Artifact Repos

[Amazon S3](#)
[Artifactory](#)
[Bintray](#)
[Docker Hub](#)
[Sonatype Nexus](#)

Deployment

[Deployinator](#)
[Rundeck](#)
[Spinnaker](#)
[ThoughtWorks](#)
[UrbanCode](#)
[XebiaLabs](#)

Tool discovery trick: Google the name of a tool followed by “vs” to get suggestions of that tool versus other tools in its space other people are asking about.

Chapter 6: Reliability Engineering

Courses

[DevOps Foundations: Effective Postmortems](#) with Ernest Mueller

[DevOps Foundations: Incident Management](#) with Ernest Mueller

[DevOps Foundations: Monitoring and Observability](#) with Peco Karayanev and Ernest Mueller

[DevOps Foundations: Site Reliability Engineering](#) with Ernest Mueller and James Wickett

Articles

[Architecture Descriptions](#) by Martin Fowler

[“AWS Outage: How Netflix Weathered the Storm by Preparing for the Worst”](#)

[“Code Profiling”](#) from Wikipedia

[“Devops Areas: Codifying Devops practices”](#) by Patrick Debois

[“Frequency Reduces Difficulty”](#) by Martin Fowler

[“How Complex Systems Fail”](#) by Dr. Richard Cook

[“Reliability Engineering”](#) from Wikipedia

[“The Twelve-Factor App”](#)

Books

[Building Secure & Reliable Systems](#) (free online version) by Heather Adkins, Betsy Beyer, Paul Blankinship, Ana Oprea, Piotr Lewandowski, and Adam Stubblefield

[Chaos Engineering](#) by Casey Rosenthal and Nora Jones

[Design Patterns](#) by Erich Gamma, Richard Helm, Ralph Johnson, and John Vlissides

[Logging and Log Management](#) by Anton Chuvakin, Kevin Schmidt, and Chris Phillips

[Release It!, 2nd Edition](#) by Michael Nygard

[Site Reliability Engineering](#) (dead tree version) and [Site Reliability Engineering](#) (free online version) edited by Betsy Beyer, Chris Jones, Jennifer Petoff, and Niall Richard Murphy

[The Site Reliability Workbook](#) (free online version) edited by Betsy Beyer, Niall Richard Murphy, David K. Rensin, Kent Kawahara, and Stephen Thorne

Presentations and Reports

[“A Lean Cloud Monitoring Checklist”](#) by Ernest Mueller

The State of DevOps Report from Puppet Labs ([2015](#)) ([2016](#)) ([2017](#)) ([2018](#)) ([2019](#))

Tools and Services

[AppDynamics](#)

[Grafana](#)

[Librato](#)

[Pingdom](#)

[StatusPage](#)

[Chaos Monkey](#)

[Graphite](#)

[Logentries](#)

[Prometheus](#)

[SumoLogic](#)

[Datadog](#)

[Honeycomb](#)

[Metrics](#)

[Rerun](#)

[Sysdig](#)

[Dynatrace](#)

[Hystrix](#)

[Nagios](#)

[Rundeck](#)

[VictorOps](#)

[ELK Stack](#)

[Icinga](#)

[New Relic](#)

[Sensu](#)

[Flapjack](#)

[InfluxDB](#)

[OpenTSDB](#)

[Splunk](#)

[Ganglia](#)

[Instana](#)

[PagerDuty](#)

[Statsd](#)

Blogs, Groups, and Social Media

[Learning from Incidents in Software](#)

[SNAFUcatchers Consortium for Resilient Internet-Facing Business IT](#)

Chapter 7: Additional DevOps Resources

Articles

[“The DevOps Donkey Represents the Rest of Us”](#) by Alan Shimel

Conferences

[All Day DevOps](#)

[AWS re:Invent](#)

[ChefConf](#)

[DevOpsDays](#)

[DevOps Enterprise Summit \(DOES\)](#)

[GoTo DevOps Conference List](#)

[Monitorama](#)

[Scale](#)

Books

[Continuous Delivery](#) by Jez Humble and David Farley

[DevOps Handbook, The](#) by Gene Kim, Jez Humble, Patrick Debois, and John Willis

[Effective DevOps](#) by Jennifer Davis and Ryn Daniels

[Leading the Transformation](#) by Gary Gruver and Tommy Mouser

[Lean Software Development: An Agile Toolkit](#) by Mary Poppendieck and Tom Poppendieck

[Phoenix Project, The](#) by Gene Kim, Kevin Behr, George Spafford

[Practice of Cloud System Administration, The](#) by Thomas A. Limoncelli, Strata R. Chalup, and Christine Hogan

[Release It!, 2nd Edition](#) by Michael Nygard

[Visible Ops Handbook, The](#) by Gene Kim, Kevin Behr, and George Spafford

[Web Operations](#) by John Allspaw and Jesse Robbins

Blogs, Groups, and Social Media

[The Agile Admin](#) by [Ernest Mueller](#), [James Wickett](#), [Peco Karayanev](#), and [Karthik Gaekwad](#)

[Arrested DevOps](#) (@arresteddevops) by [Matt Stratton](#), [Trevor Hess](#), and [Bridget Kromhout](#)

[Continuous Delivery](#) by [Jez Humble](#)

[dev2ops](#) by [Damon Edwards](#) and [Alex Honor](#)

[DevOps.com](#) (@devopsdotcom), chief editor: [Alan Shimel](#)

[DevOps Cafe](#) by John Willis and [Damon Edwards](#)

[Devops Weekly](#) mailing list by [Gareth Rushgrove](#)

[DZone](#)

[Food Fight](#) (@foodfightshow) by [Nathen Harvey](#)

[InfoQ](#)

[IT Revolution Press](#) by [Gene Kim](#) (and others)

[JEDI](#) by [Patrick Debois](#)

[Kitchen Soap](#) by [John Allspaw](#)

[More Than Seven](#) by [Gareth Rushgrove](#)

[The Ship Show](#) by [J. Paul Reed](#), [Sascha Bates](#), [Pete Cheslock](#), and [Youssuf El-Kalay](#)

[Stochastic Resonance](#) by [Andrew Clay Shafer](#)

Chapter 8: The Future of DevOps

Courses

[DevSecOps: Automated Security Testing](#) with James Wickett
[DevSecOps: Building a Secure Continuous Delivery Pipeline](#) with James Wickett
[DevSecOps: Burning Questions](#) with James Wickett
[DevSecOps: Tips for Success](#) with James Wickett

Articles

[“8 Surprising Facts about Real Docker Adoption”](#) from Datadog
[”The MEASURE of DevSecOps”](#) from Verica.io
[“The Rugged Manifesto”](#)

Blogs, Groups, and Social Media

[DevSecOps](#)
[Absolute AppSec podcast](#)

Reports

[Dear Auditor](#) from IT Revolution
[The DevOps Audit Defense Toolkit](#) from IT Revolution Press
[DevSecOps Community Survey 2019](#) from Sonatype
[State of the Cloud Report](#) from Flexera
[An Unlikely Union: DevOps and Audit](#) from IT Revolution

Tools and Services

Aqua Container Security	Kubernetes
AWS Cloud Development Kit	Serverless Framework
AWS Lambda	Signal Sciences
AWS Serverless Application Model	Sonatype
Chef Audit and Compliance Framework: InSpec	Threat Stack
Docker Hub	Zappa
Gauntlt	

Chapter 9: Conclusion

Tools and Services

Amazon Web Services	Jenkins Docker Container
Docker	Terraform
GitHub	Terraform Docker Container
Jenkins	

More from Your Instructors

[@ernestmueller](#) – Ernest Mueller on Twitter
[@wickett](#) – James Wickett on Twitter
[The Agile Admin](#) – Ernest Mueller, James Wickett, Karthik Gaekwad, and Peco Karayanev