DevOps Foundation Course: Value Added Resources

This document provides links to articles and videos related to the DevOps Foundation course from DevOps Institute. This information is provided to enhance your understanding of DevOps Foundation-related concepts and terms and is not examinable. Of course, there is a wealth of other videos, blogs and case studies on the web. We welcome suggestions for additions.

Videos Featured in the Course

Module Featured	Title & Link
1: Exploring DevOps	'A Short History of DevOps' with Damon Edwards (11:47)
1: Exploring DevOps	Abbreviated version of Simon Sinek's Ted Talk 'Start with Why - How Great Leaders Inspire Action' (5:00)
2: Core DevOps Principles	'Gene Kim Defines the Three Ways of The Phoenix Project' (3:31)
3: Key DevOps Practices	'Continuous Integration vs. Continuous Delivery vs. Continuous Deployment: What are the Differences? by Circleci (00:56)
4: Business & Technology Frameworks	'Spotify Engineering Culture Part 1' with Henrik Kniberg (13:12)
5: DevOps Values: Culture, Behaviors & Operating Models	'Spotify Engineering Culture Part 2' with Henrik Kniberg (13:27)
6: DevOps Values: Automation & Architecting DevOps Toolchains	'The DevOps Toolchain' with John Okoro (7:43)
7: DevOps Values: Measurement, Metrics & Reporting	'Double the Awesome' with Dr. Nicole Forsgren (21:46)
8: DevOps Values: Sharing, Shadowing & Evolving	'DevOps: A Culture of Sharing' with Gareth Rushgrove (2:19)

DevOps Reports

Report & Link	Writers/Publishers
2020 DevSecOps Community Survey	Sonatype
2020 DevOps Research and Assessment	Google Cloud
2022 State of DevOps Report	Google Cloud
2021 Global DevSecOps Survey	Gitlab
The Accelerate State of DevOps Report 2019	Dr. Nicole Forsgren, Gene Kim & Jez Humble in collaboration with Google Cloud Platform (GCP)
The State of DevOps Report 2020	Puppet Labs, CircleCI and Splunk
The State of DevOps Report 2021	Puppet Labs, CircleCI and Splunk
The State of DevOps Report 2023	Puppet Labs, CircleCI and Splunk
The State of VSM Report 2021	VSM Consortium
Upskilling IT Global Report 2022	DevOps Institute
Upskilling IT Global Report 2023	DevOps Institute

DevOps Articles

Article Title & Author	Relevant Module
'5 Things DevOps is Not' from devops.com	1: Exploring DevOps
'6 DevOps Recruiting Tips: How to Land the Right People' on TechBeacon	8: Sharing, Shadowing & Evolving
'7 DevOps Roles You Need to Succeed' on TechBeacon	5: Module 5: Culture, Behaviors & Operating Models
'7 Keys to Finding Phenomenal DevOps Talent' on TechBeacon	8: Sharing, Shadowing & Evolving

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['10 Ways Machine Learning Can Optimize DevOps'](#) on TechBeacon	6: Automation & Architecting Toolchains
['A Different Drumbeat: Using Kanban for DevOps to Smooth Out Your Scrum Cycles'](#) by Nate Berent-Spillson	3: Key DevOps Practices
['A Four Quadrant Look at the DevOps Toolchain'](#) by Scott Johnston	6: Automation & Architecting Toolchains
['A Personal Reinterpretation of The Three Ways'](#) by Tim Hunter	2: Core DevOps Principles
['Best Practices for Using Value Stream Mapping as a Continuous Improvement Tool'](#) by R. Keith Mobley	4: Business & Technology Frameworks
['Blue-Green Deployments, A/B Testing, and Canary Releases'](#) by Christian Posta	3: Key DevOps Practices
['Building a Healthy DevOps Culture'](#) by Michael Butt	5: Module 5: Culture, Behaviors & Operating Models
['Building a Learning Organization'](#) on HBR	4: Business & Technology Frameworks
['ChatOps: Communicating at the Speed of DevOps'](#) by George Hulme	6: Automation & Architecting Toolchains
['Codifying DevOps Practices'](#) by Patrick DeBois	3: Key DevOps Practices
['Communities of Practice: The Missing Piece of Your Agile Organisation'](#) by Emily Webber	5: Module 5: Culture, Behaviors & Operating Models
['Continuous Delivery'](#) by Martin Fowler	3: Key DevOps Practices
['Continuous Delivery: Anatomy of the Deployment Pipeline'](#) by Jez Humble & Dave Farle	3: Key DevOps Practices
['Continuous Everything in DevOps… What is the difference between CI, CD… ?'](#) by Micro Hering	3: Key DevOps Practices

'Continuous Integration' on ThoughtWorks	3: Key DevOps Practices
'Create a Culture of Strength: Resilience Engineering' by Stefan Thorpe	3: Key DevOps Practices
'Culture Debt' by Jayne Groll	5: Module 5: Culture, Behaviors & Operating Models
'Cultural Debt Can Be the Primary Driver of Technical Debt' by Rick Brenner	5: Module 5: Culture, Behaviors & Operating Models
'Culture Isn't a Swear Word' by Jonathan Fletcher	5: Module 5: Culture, Behaviors & Operating Models
'Data-Driven DevOps: Use Metrics to Guide Your Journey' by Jonah Kowell	7: Measurement, Metrics & Reporting
'DevOps and IT Support: 4 Principles to Keep Your Team Ahead of the Curve' on devops.com.	1: Exploring DevOps
'DevOps and Kanban - Match Made in Heaven' by UpGuard	3: Key DevOps Practices
'DevOps, Cloud, and the Lean "Wheel of Waste"' by Richard Seroter	4: Business & Technology Frameworks
'DevOps Culture' by John Willis	5: Module 5: Culture, Behaviors & Operating Models
'DevOps Culture: Westrum Organizational Culture' by Google Gloud	5: Module 5: Culture, Behaviors & Operating Models
'DevOps Demystified' by Ben Rockwood	7: Measurement, Metrics & Reporting
'DevOps: To Measure Value then Measure Speed' by Stephen Williams	7: Measurement, Metrics & Reporting
'Doing ChatOps in Microsoft Teams' by Helen Beal	3: Key DevOps Practices

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'[Epics, Stories, Themes, and Initiatives](#)' by Atlassian	4: Business & Technology Frameworks
'[First Impressions at Etsy](#)' by Jason Shen (including reference to the 3-armed sweater)	3: Key DevOps Practices
'[From Containers to Microservices: Modernizing Legacy Applications](#)' by David Linthicum	6: Automation & Architecting Toolchains
'[From Darwin to DevOps: John Willis and Gene Kim Talk about Life after The Phoenix Project](#)' by Helen Beal	4: Business & Technology Frameworks
[Google SRE: Site Reliability Engineering at a Global Scale](#)	3: Key DevOps Practices
'[How to Find Your Continuous Delivery Rhythm](#)' from devops.com	1: Exploring DevOps
'[How to Implement a Solid DevOps Team Structure](#)' by Alex Barrett	8: Sharing, Shadowing & Evolving
'[How to Reduce Employee Resistance to Change](#)' by Susan. M. Heathfield	5: Module 5: Culture, Behaviors & Operating Models
'[Is Yours a Learning Organization?](#)' on HBR	4: Business & Technology Frameworks
'[Jesse Robbins Discusses DevOps and Cloud Computing](#)' on Thoughtworks' blog	6: Automation & Architecting Toolchains
'[Just What is a DevOps Engineer?](#)' on devops.com	8: Sharing, Shadowing & Evolving
'[Inside Atlassian: How IT & SRE use ChatOps to Run Incident Management](#)' by Sean Regan	3: Key DevOps Practices
'[Let's Fund Teams Not Projects](#)' from the DEFRA Digital blog, .gov.uk	4: Business & Technology Frameworks
'[Machine Learning: AI Driving DevOps Evolution](#)' by Tony Bradley	6: Automation & Architecting Toolchains
'[Measure Efficiency, Effectiveness, and Culture, to Optimize DevOps Transformation: Metrics for DevOps Initiatives](#)' from IT Revolution	7: Measurement, Metrics & Reporting
'[Misconceptions About Kanban](#)' by Leon Tranter	3: Key DevOps Practices
'[Resilience Engineering](#)' by Erik Hollnagel	3: Key DevOps Practices

'SAFe for Lean Enterprises' by Scaled Agile	4: Business & Technology Frameworks
SAFe White Paper by Scaled Agile	4: Business & Technology Frameworks
'T-Shaped Developers are the New Normal' by David Walker	8: Sharing, Shadowing & Evolving
'The 7 Skills Ops Pros Need to Succeed in DevOps' by George Hulme	8: Sharing, Shadowing & Evolving
'The Andon Cord' by John Willis on IT Revolution	4: Business & Technology Frameworks
'The Biggest Myth in Building Learning Culture' by Shannon Tipton	2: Core DevOps Principles
'The Convergence of DevOps' by John Willis on IT Revolution	4: Business & Technology Frameworks
'The DevOps Movement Fits Perfectly with ITSM' by Greg Strydom	4: Business & Technology Frameworks
'The Future of DevOps: 21 Predictions for 2021' from TechBeacon	1: Exploring DevOps
"The Industry Just Can't Decide About DevOps Teams" by Helen Beal	8: Sharing, Shadowing & Evolving
'The Mission of a DevOps Team' by Casey West	8: Sharing, Shadowing & Evolving
'Theory of Constraints' by Lean Production	2: Core DevOps Principles
'There's No Such Thing as a DevOps Team' by Jez Humble	8: Sharing, Shadowing & Evolving
'Top 25 Lean Tools' on Lean Production	4: Business & Technology Frameworks
'Toyota Kata: Habits for Continuous Improvement' by Håkan Forss	4: Business & Technology Frameworks
'Tracking Every Release' Code as Craft (Etsy)	7: Measurement, Metrics & Reporting

'[Transforming the Annual Budgeting Process for DevOps'](#) by Mustafa Kapadia	4: Business & Technology Frameworks
'[Understanding DevOps – Part 4: Continuous Testing and Continuous Monitoring'](#) by Sanjeev Sharma	3: Key DevOps Practices
'[Understanding the Kubler-Ross Change Curve'](#) on Cleverism	5: Module 5: Culture, Behaviors & Operating Models
'[Use DevOps to Turn IT Into a Strategic Weapon'](#) by Damon Edwards	1: Exploring DevOps
'[Waste Not, Want Not: A Simplified Value Stream Map for Uncovering Waste'](#) by J Meadows	4: Business & Technology Frameworks
'[What DevOps Means to Me'](#) by John Willis	1: Exploring DevOps
'[What is Site Reliability Engineering?'](#) an interview with Niall Murphy and Ben Treynor at Google	3: Key DevOps Practices
'[What Happens to Test in a DevOps World'](#) on devops.com	3: Key DevOps Practices
'[What's Lost with a DevOps Team'](#) by Michael Nygard	8: Sharing, Shadowing & Evolving
'[What's the Difference Between AI, Machine Learning and Deep Learning?'](#) by Michael Copeland	6: Automation & Architecting Toolchains
'[Why DevOps Engineer is the Number One Hardest Tech Job to Fill'](#) by Logicworks	8: Sharing, Shadowing & Evolving
'[Why Everyone Needs DevOps Now'](#) by Gene Kim	2: Core DevOps Principles

WebSites

Title	Link
Agile Manifesto	https://agilemanifesto.org/
Beyond Budgeting	https://bbrt.org/
DevOps Institute	https://devopsinstitute.com/

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DevOps Topologies (Matthew Skelton & Manuel Pais)	https://web.devopstopologies.com/
DevOps.com	https://devops.com/
DevOpsDays	https://www.devopsdays.org/
DevSecOps Reference Architectures (Sonatype)	https://www.sonatype.com/devsecops-reference-architectures
Hubot by Github	https://hubot.github.com/
IT Revolution	https://itrevolution.com/
Periodic Table of DevOps Tools (Digital.ai)	https://digital.ai/periodic-table-of-devops-tools
Principles of Chaos Engineering	https://principlesofchaos.org
Rugged Software	https://ruggedsoftware.org/
SAFe	https://www.scaledagileframework.com
Scrum.org	https://www.scrum.org/
Scrum Guide	https://www.scrumguides.org/scrum-guide.html
Theory of Constraints Institute	https://www.tocinstitute.org/
Wikipedia- DevOps	https://en.wikipedia.org/wiki/DevOps

DevOps & Engineering Blogs

Blog	Link
AirBNB Engineering & Data Science	https://medium.com/airbnb-engineering
Backstage Blog (SoundCloud)	https://developers.soundcloud.com/blog/
code.flickr.com	http://code.flickr.net/
DEFRA Digital	https://defradigital.blog.gov.uk/
Deliveroo Engineering Team	https://deliveroo.engineering/

Dropbox Tech Blog	https://blogs.dropbox.com/tech/
eBay Tech Blog	https://www.ebayinc.com/stories/blogs/tech/
Etsy - Code as Craft	https://codeascraft.com/
Eventbrite Engineering	https://www.eventbrite.com/engineering/
Facebook Engineering	https://www.facebook.com/Engineering
Google Developers	https://developers.googleblog.com/
Heroku Engineering	https://blog.heroku.com/engineering
HubSpot Engineering	https://product.hubspot.com/blog/topic/engineering
Instagram Engineering	https://instagram-engineering.com/
Jede.be Blog	http://www.jedi.be/blog/2012/05/12/codifying-devops-area-practices/
Kickstarter Engineering	https://kickstarter.engineering/
LinkedIn Engineering	https://engineering.linkedin.com/blog
Monzo Technology	https://monzo.com/blog/technology/
Moonpig Engineering	https://engineering.moonpig.com/
Netflix TechBlog	https://medium.com/netflix-techblog
PayPal Engineering	https://www.paypal-engineering.com/
Pinterest Engineering	https://medium.com/@Pinterest_Engineering
Rock Your Code Blog	https://www.rockyourcode.com/posts/
Salesforce Engineering	https://engineering.salesforce.com/
Slack Engineering	https://slack.engineering/
Target Tech	https://tech.target.com/
Ticketmaster Technology	https://tech.ticketmaster.com/category/devops/
Trainline Engineering	https://engineering.thetrainline.com/
Uber Engineering	https://eng.uber.com/

Vimeo Engineering	https://medium.com/vimeo-engineering-blog
Zapier Engineering	https://zapier.com/engineering/

GitHub Resources

Item	Link
Ansible for DevOps	https://github.com/geerlingguy/ansible-for-devops
Azure DevOps Samples	https://github.com/microsoft/devops-project-samples
CapitalOne DevOps Dashboard	https://github.com/capitalone/Hygieia
Chaos Monkey	https://github.com/Netflix/SimianArmy/wiki/Chaos-Monkey
Chef Style DevOps Kung Fu	https://github.com/chef/devops-kungfu
DevOps Against Humanity	https://github.com/bridgetkromhout/devops-against-humanity
DevOps Tools Collection	https://github.com/collections/devops-tools
Docker and DevOps	https://github.com/yeasy/docker_practice
Github Engineering	https://githubengineering.com/
TicketMaster Tech Maturity Model	https://github.com/Ticketmaster/techmaturity

Additional Videos of Interest

Title	Link
'Continuous Delivery' with Jez Humble (46:59)	https://youtu.be/skLJuksCRTw
'Get Loose! Microservices & Loosely Coupled Architectures' with Jez Humble and Anders Walgreen hosted by devops.com	https://youtu.be/I9BymWx8G1E
'Intro to Scrum in Under 10 Minutes' by Axosoft	https://youtu.be/XU0llRItyFM
'Learn How Value Stream Mapping Applies to Any Industry or Process'' by Gemba Academy	https://youtu.be/gg5u9kn0Bzo

Sidney Dekker, Richard Cook and Stephen Spear at DOES 2017	https://youtu.be/CFMJ3V4VakA
'The Real DevOps of Silicon Valley' from AppDynamics (4:49)	https://youtu.be/2PjVuTzA2lk
'Does14- Gary Gruver- Macy's Transforming Traditional Enterprise Software Development Processes	https://www.youtube.com/watch?v=-HSSGiYXA7U

DevOps Books

Title	Author	Link
Accelerate: The Science of Lean Software and DevOps: Building and Scaling High Performing Technology Organizations	Nicole Forsgren PHD, Jez Humble & Gene Kim	https://itrevolution.com/book/accelerate/
Beyond The Phoenix Project	Gene Kim and Jez Humble	https://itrevolution.com/book/beyond-phoenix-project/
Continuous Delivery	Jez Humble and Dave Farley	https://www.amazon.com/dp/0321601912?tag=contindelive-20
DevOps for the Modern Enterprise	Mirco Hering	https://itrevolution.com/book/devops_modern_enterprise/
Just Culture	Sidney Dekker	https://www.amazon.com/Just-Culture-Sidney-Dekker-dp-147247578X/dp/147247578X/ref=dp_ob_title_bk
Leading Change	John P Kotter	https://www.amazon.com/Leading-Change-New-Preface-Author/dp/1422186431/
Lean IT	Steven C Bell and Michael A Orzen	https://www.amazon.com/Lean-Enabling-Sustaining-Your-Transformation/dp/1439817561

From Project to Product	Dr. Mik Kersten	https://itrevolution.com/book/project-to-product/
Site Reliability Engineering	Niall Richard Murphy, Betsy Beyer and Chris Jones	https://www.amazon.com/Site-Reliability-Engineering-Production-Systems/dp/149192912X
Team Topologies	Matthew Skelton and Manuel Pais	https://itrevolution.com/book/team-topologies/
The Art of Business Value	Mark Schwartz	https://itrevolution.com/book/the-art-of-business-value/
The DevOps Handbook	Gene Kim, Jez Humble, Patrick Debois & John Willis	https://itrevolution.com/book/the-devops-handbook/
The Phoenix Project	Kevin Behr, George Spafford and Gene Kim	https://itrevolution.com/book/the-phoenix-project/
The Unicorn Project	Gene Kim	https://itrevolution.com/book/the-unicorn-project/
The Field Guide to Understanding Human Error	Sidney Dekker	https://www.routledge.com/The-Field-Guide-to-Understanding-Human-Error-3rd-Edition/Dekker/p/book/9781472439055

Case Stories Featured in the Course

Company	Module	Link
Alaska Air	4: Business & Technology Frameworks	• 'Delivering the Continuous Enterprise with Agile, Lean, and DevOps ALDO Practices' by Mark Holmes • 'Alaska Airlines DevOps Journey' by Troy Kaser • 'Alaska Airlines Flies on Visual Studio Team Services and Xamarin' (Microsoft Azure) • Alaskan Airlines Charts Course for DevOps Security • 'Alaska Airlines Makes Shopping Easier with Faster Flow of New eCommerce Features' by Microsoft Cloud Platform • 'DevOps Practice: Modern Infrastructure Automation' by Derek E. Weeks • 'Alaska Airlines' ChefConf 2016 Keynote from Veresh Sita
Australia Post (in notes on SAFe slide)	4: Business & Technology Frameworks	• 'Australia Post's Agile Approach to Digital Transformation' by Cameron Gough
Capital One	3: Key DevOps Practices	• 'Measuring Success at Capital One' by The Goat Farm • 'Capital One: A DevOps Powerhouse' by Josh Litvin
Disney	8: Sharing, Shadowing & Evolving	• 'Digital Magic: Disney's DevOps Transformation' by Jennifer Riggins • 'Disney's DevOps Journey: A DevOps Enterprise Summit Reprise' by Aliza Earnshaw • 'How Disney Organized for a DevOps Transition' by George Lawton
Fannie-Mae	6: Automation & Architecting DevOps Toolchains	• 'Fannie Mae Securitization App Leads DevOps Implementation' by Beth Pariseau • 'How Fannie Mae Practices DevOps to Deliver Quality at Speed' by Derek Weeks
ING Bank	1: Exploring DevOps	• 'Bank Tech Boss: Where We're Going, We Don't Need Mainframes' by Joe Fay at the Register • 'ING Bangs the Drum for DevOps' (FinExtra) • 'Continuous Delivery - The ING Story: Improving Time to Market with DevOps and Continuous Delivery' by Wouter Mejis
Societe	7: Measurement,	• 'How to Reap the Rewards of DevOps: One Bank's Story'

Generale	Metrics & Reporting	by Gottfriend Sehringer
Target	5: Culture, Behaviors & Operating Models	• '(Re)Building at Engineering Culture: DevOps at Target' with Heather Mickman and Ross Clanton
Ticketmaster	2: Core DevOps Principles	• 'How to Apply DevOps Practices to Legacy IT' (Computer Weekly)