

DevSecOps Practitioner Course: Value Added Resources

This document provides links to articles and videos related to the DevSecOps Practitioner course from DevOps Institute. This information is provided to enhance your understanding of advanced DevSecOps-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	Title & Description	Link
1. DevSecOps Advanced Basics	10+ Deploys per Day: Dev and Ops Cooperation at Flickr (46:00)	https://www.youtube.com/watch?v=LdOe18KhtT4
1. DevSecOps Advanced Basics	The Short History of DevOps (11:47)	https://www.youtube.com/watch?v=o7-IuYS0iSE
2. Understanding Applied Metrics	Commit Virtual 2021: Measuring DevOps Success with Pipeline Analytics (28:21)	https://www.youtube.com/watch?v=kWx-HlVVNb0
3. Architecting & Planning for DevSecOps	DOD DevSecOps Initiative Architecture (15:42)	https://www.youtube.com/watch?v=gR0Mzo7WDss
4. Creating DevSecOps Infrastructure	Making Infrastructure and IT Ops Teams Ready for DevOps (30:46)	https://www.youtube.com/watch?v=aGbQXZK8TGw
5. Establishing a Pipeline	GitLab CI/CD	https://www.youtube.com/watch?v=EuwLdbCu3DE
6. Observing DevSecOps Outcomes	How does observability enable a DevOps Organization (9:01)	https://www.youtube.com/watch?v=77XyLtZra6o

DevSecOps Practitioner Course: Value Added Resources

7. Practical Third Way Applications	Fostering the Third Way-Your DevOps Dojo (46:01)	https://www.youtube.com/watch?v=n6pNgrzXmSE
8. The Future of DevSecOps	5 Futuristic technologies that will exist by 2030 (13:54)	https://www.youtube.com/watch?v=453ibZYzdGE

DevOps Reports

Report & Link	Writers/Publishers
2020 DevSecOps Community Survey	Sonatype
2020 Global Developer Report	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 Agile	digital.ai
The State of DevOps Report 2019	Puppet Labs, CircleCI and Splunk
Upskilling: Enterprise DevOps Skills Report 2020	DevOps Institute

DevOps Articles

Relevant Module	Article & Link
1: DevSecOps Advanced Basics	The DevSecOps Manifesto. An agile transformation approach to... by Larry Maccherone Continuous Agile
1: DevSecOps Advanced Basics	CALMS for DevSecOps: Part 1—Why Culture Is Critical

DevSecOps Practitioner Course: Value Added Resources

1: DevSecOps Advanced Basics	<u>CALMS for DevSecOps: Part 2—Why You Need Automation</u>
1: DevSecOps Advanced Basics	<u>CALMS for DevSecOps: Part 3—How Lean Improves Performance</u>
1: DevSecOps Advanced Basics	<u>CALMS for DevSecOps: Part 4—Measuring Save Time and Avoid Breaches</u>
1: DevSecOps Advanced Basics	<u>CALMS for DevSecOps: Part 5—The Power of Dojos and ChatOps in Security Knowledge Share</u>
1: DevSecOps Advanced Basics	<u>The Three Ways of DevSecOps: Building a Security Pipeline with Free Tools</u>
1: DevSecOps Advanced Basics	<u>The 3 Ways of DevSecOps</u>
1: DevSecOps Advanced Basics	<u>How ITIL4 and SRE Align with DevOps</u>
1: DevSecOps Advanced Basics	<u>The DevSecOps Manifesto by Larry Maccherone</u>
2: Using Applied Metrics	<u>Bake Security into your SDLC from the Beginning by Dale Bingham</u>
2: Using Applied Metrics	<u>Why You Need to Assess your DevOps Maturity by R. Striedl</u>
2: Using Applied Metrics	<u>3 Types of Culture by J. Gallimore</u>
2: Using Applied Metrics	<u>Semaphore: The World's First Telegraph</u>
2: Using Applied Metrics	<u>The Crooked Timber of Humanity</u>
2: Using Applied Metrics	<u>The Confessions of Marcus Hutchins, The Hacker who Saved the Internet</u>
3. Architecting and Planning for DevSecOps	<u>What is a Server: Definition and How Does it Actually Work?</u>
3. Architecting and Planning for DevSecOps	<u>Why Should you Choose the Microservices Architecture?</u>

DevSecOps Practitioner Course: Value Added Resources

3. Architecting and Planning for DevSecOps	<u>Microservices vs. Monolith: The Ultimate Comparison 2021.</u>
3. Architecting and Planning for DevSecOps	<u>Microservices vs. Monolith: Which Architecture is the Best Choice for your Business</u>
3. Architecting and Planning for DevSecOps	<u>Pattern: Strangle Monolithic Application</u>
3. Architecting and Planning for DevSecOps	<u>Enterprise Architecture Maturity Assessment Tool</u>
3. Architecting and Planning for DevSecOps	<u>7 Layers of API Architecture Maturity</u>
3. Architecting and Planning for DevSecOps	<u>Software Architecture for Busy Developers</u>
3. Architecting and Planning for DevSecOps	<u>Software Architecture Patterns for Serverless Systems</u>
3. Architecting and Planning for DevSecOps	<u>Performance Measurements and Issues</u>
3. Architecting and Planning for DevSecOps	<u>What is Software Architecture?</u>
3. Architecting and Planning for DevSecOps	<u>Visual Paradigm: The #1 Development Tool Suite</u>
3. Architecting and Planning for DevSecOps	<u>Working with JSON</u>
3. Architecting and Planning for DevSecOps	<u>The Future of Continuous Software Delivery</u>
3. Architecting and Planning for DevSecOps	<u>The Air Force's Platform One Team Thought It was Agile. Then COVID-19 Hit</u>
3. Architecting and Planning for DevSecOps	<u>Platform One Modernizing DOD Software Development to Enable Digital Operations</u>

DevSecOps Practitioner Course: Value Added Resources

3. Architecting and Planning for DevSecOps	<u>Nicolas Chaillan on Pentagon's Platform One</u>
4. Creating DevSecOps Infrastructure	<u>IT Infrastructure Maturity Model</u>
4. Creating DevSecOps Infrastructure	<u>Conway's Law and Corollary</u>
4. Creating DevSecOps Infrastructure	<u>What is Lift and Shift?</u>
4. Creating DevSecOps Infrastructure	<u>What is IT Infrastructure: An Overview</u>
4. Creating DevSecOps Infrastructure	<u>7 Critical Differences Between Converged and Hyperconverged Infrastructure</u>
4. Creating DevSecOps Infrastructure	<u>Infrastructure as Code: A DevOps Way to Manage IT Infrastructure</u>
4. Creating DevSecOps Infrastructure	<u>How Chaos Engineering Plays a Vital Role in DevOps Success</u>
4. Creating DevSecOps Infrastructure	<u>3-Legged OAuth Flow to Invoke Fusion Apps REST Endpoints</u>
4. Creating DevSecOps Infrastructure	<u>Zero-Trust Gateways: A New Strategy for Protecting Critical Infrastructure</u>
4. Creating DevSecOps Infrastructure	<u>What is a Zero Trust Architecture</u>
4. Creating DevSecOps Infrastructure	<u>VMWare-What is Infrastructure Automation</u>
5. Establishing a Pipeline	<u>DoD Enterprise DevSecOps Reference Design</u>
5. Establishing a Pipeline	<u>Liquid Pipelines Operations Optimization</u>
5. Establishing a Pipeline	<u>Integrating DevOps: Avoid These Common Mistakes</u>

DevSecOps Practitioner Course: Value Added Resources

5. Establishing a Pipeline	<u>Microservice Architecture enables DevOps: An Experience Report on Migration to Cloud Native Architecture</u>
5. Establishing a Pipeline	<u>Complete Guide to Test Automation</u>
5. Establishing a Pipeline	<u>Github Secure Development and Deployment</u>
5. Establishing a Pipeline	<u>Automation Pipelines</u>
5. Establishing a Pipeline	<u>What is Telemetry? The Guide to Application Monitoring</u>
5. Establishing a Pipeline	<u>DevOps Double Case Study: CloudBees and Perfecto Mobile</u>
6. Observing DevSecOps Outcomes	<u>Application Security and Continuous Observability with DeepFactor</u>
6. Observing DevSecOps Outcomes	<u>Demonstration of an Observability Framework for Cloud Native Microservices</u>
6. Observing DevSecOps Outcomes	<u>3 Types of Metric Dashboards for DevOps Teams</u>
6. Observing DevSecOps Outcomes	<u>Getting Started with Prometheus</u>
6. Observing DevSecOps Outcomes	<u>Prometheus Monitoring: The Definitive Guide in 2019</u>
6. Observing DevSecOps Outcomes	<u>Free for Open-Source Application Security Tools</u>
6. Observing DevSecOps Outcomes	<u>Improve your CI/CD Observability with these 4 Best Practices</u>
7. Practical 3 rd Way Applications	<u>DevOps Process: Team Experimentation</u>
7. Practical 3 rd Way Applications	<u>Qualitative vs. Quantitative Research</u>

DevSecOps Practitioner Course: Value Added Resources

7. Practical 3 rd Way Applications	<u>Key Components of Data Analytics</u>
7. Practical 3 rd Way Applications	<u>Significant Phase of Testing Maturity Model</u>
7. Practical 3 rd Way Applications	<u>DevOps Process: Streamlining Change Approval</u>
7. Practical 3 rd Way Applications	<u>The 5 Pillars of Running Experiments at Scale</u>
7. Practical 3 rd Way Applications	<u>Selected Experiments on SSEP Mission 14 to ISS</u>
7. Practical 3 rd Way Applications	<u>The Five V's of Big Data</u>
7. Practical 3 rd Way Applications	<u>The 7 Benefits to Using Big Data for Small Business</u>
7. Practical 3 rd Way Applications	<u>Big Data Infographics Images</u>
7. Practical 3 rd Way Applications	<u>Scientific Method</u>
7. Practical 3 rd Way Applications	<u>Designing an Experiment</u>
7. Practical 3 rd Way Applications	<u>Top 14 Qualitative Data Analysis Software</u>
7. Practical 3 rd Way Applications	<u>Rating Scales in UX Research: Likert or Semantic Differential</u>
7. Practical 3 rd Way Applications	<u>How to Conduct Interviews</u>
7. Practical 3 rd Way Applications	<u>Best Practices for Every Step of Survey Creation</u>

DevSecOps Practitioner Course: Value Added Resources

8. The Future of DevSecOps	<u>The Future of DevSecOps</u>
8. The Future of DevSecOps	<u>Emerging Technology Roadmap for Midsize Enterprises</u>
8. The Future of DevSecOps	<u>Aligning DevSecOps and Machine Learning</u>
8. The Future of DevSecOps	<u>Quantum Interference: Quantum Interactive</u>
8. The Future of DevSecOps	<u>Science Daily: Quantum Entanglement</u>
8. The Future of DevSecOps	<u>Superposition and Entanglement</u>
8. The Future of DevSecOps	<u>Quantum Computing is Coming: What Can it do?</u>
8. The Future of DevSecOps	<u>What Biodesign Means to Me</u>
8. The Future of DevSecOps	<u>What is Biodesign?</u>
8. The Future of DevSecOps	<u>The Biodesign Institute</u>
8. The Future of DevSecOps	<u>Call-Free Systems: A Proving Ground for Rational Biodesign</u>
8. The Future of DevSecOps	<u>Hardware as a Service (HaaS): Physical and Virtual Hardware on Demand</u>
8. The Future of DevSecOps	<u>What are IaaS and SaaS</u>
8. The Future of DevSecOps	<u>Who is Driving the Great Resignation?</u>
8. The Future of DevSecOps	<u>10 Predictions About the Software Development Trends in the 2030s</u>
8. The Future of DevSecOps	<u>Geeks for Geeks: Computer Aided Software Engineering</u>
8. The Future of DevSecOps	<u>Edison Awards</u>
8. The Future of DevSecOps	<u>10 Breakthrough Technologies in 2021</u>
8. The Future of DevSecOps	<u>21 Best GPT-2 Tools Examples and Use Cases</u>

DevSecOps Practitioner Course: Value Added Resources

8. The Future of DevSecOps	<u>6 Tips for Choosing the Right Technology for Your Business</u>
8. The Future of DevSecOps	<u>7 Factos to Consider When Choosing a Technology Solution</u>
8. The Future of DevSecOps	<u>Do Scaling Agile Frameworks Address Global Software Development Risks?</u>
8. The Future of DevSecOps	<u>Translocality in Global Software Development: The Dark Side of Global Agile</u>

Websites

Title	Link
Agile Alliance	<u>https://www.agilealliance.org/glossary</u>
Agile Manifesto	<u>https://agilemanifesto.org/</u>
Chief Software Office	<u>https://software.af.mil/dsop/services/</u>
DevOps.com	<u>https://devops.com/</u>
DevOps Institute	<u>https://devopsinstitute.com/</u>
DevOps Days	<u>https://www.devopsdays.org/</u>
DevSecOps	<u>https://www.devsecops.org/</u>
Microsoft.com	<u>https://docs.microsoft.com/en-us/azure/devops/pipelines/?view=azure-devops</u>
New Relic	<u>https://docs.newrelic.com/docs/new-relic-solutions/observability-maturity/introduction/</u>
OWASP Foundation	<u>https://owasp.org/</u>
TechRepublic.com	<u>https://www.techrepublic.com/</u>

DevSecOps Practitioner Course: Value Added Resources

Test Origin	Testorigin.com
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DevOps & IT Service Management Blogs

Blog	Link
Bizz Design	https://bizzdesign.com/blog/agile-archimate-intentional-architecture/
Circle CI	https://circleci.com/blog/cicd-engineer/
CodeHustler	http://codehustler.org/blog/spring-security-tutorial-2-legged-oauth-1-0/
Cycode	https://cycode.com/blog/you-should-care-about-securing-your-source-code/
DevOps.com	https://devops.com/9-pillars-of-continuous-security-best-practices/
DLT: A Tech Data Company	https://www.dlt.com/blog/2021/02/25/everyone-platform-one-pool
Edureka	https://www.edureka.co/blog/top-10-trending-technologies/
Instana	https://www.instana.com/blog/cloud-native-seeing-through-hype/
Juancasac	https://juancasac.wordpress.com/2016/10/14/what-is-software-architecture/
Kevin Eikenberry	https://blog.kevineikenberry.com/personal-professional-development/leaders-can-support-experimentation/
Myers Barnes Associates	https://www.myersbarnes.com/blog/2017/06/are-you-on-the-cutting-edge-or-the-bleeding-edge/

DevSecOps Practitioner Course: Value Added Resources

PhoenixNAP	https://phoenixnap.com/blog/devops-pipeline
Scrum: Why Experiment?	https://www.scrum.org/resources/blog/why-experiment
Software Engineering Institute	https://insights.sei.cmu.edu/blog/aligning-devsecops-and-machine-learning/
Sonatype	https://blog.sonatype.com/security-should-stop-being-a-drag
Skylance	https://www.skylance.org/blog/the-three-horizons-of-growth-and-innovation
Test Project	https://blog.testproject.io/2020/06/07/continuous-test-automation-maturity-levels/
The CoderPedia	https://www.thecoderpedia.com/blog/what-is-a-server/
The Spur Group	https://www.thespurgroup.com/blog/5-keys-to-robust-data-analysis/
Toronto School of Management	https://www.torontosom.ca/blog/key-components-of-data-analytics
VENAFI	https://www.venafi.com/blog/power-dojos-and-chatops-security-knowledgeshare-calms-devsecops-part-5
VMWare	https://blogs.vmware.com/virtualblocks/2017/05/04/hpe-synergy-first-composable-infrastructure-now-certified-vsan/

DevSecOps Practitioner Course: Value Added Resources

Additional Videos of Interest

Relevant Module	Title	Link
1. DevSecOps Advanced Basics	'The (Short) History of DevOps' by Damon Edwards (11:47)	https://www.youtube.com/watch?v=LdOe18KhtT4
1. DevSecOps Advanced Basics	'10+ Deploys Per Day: Dev and Ops Cooperation at Flickr' by John Allspaw and Paul Hammond (46:21)	https://youtu.be/LdOe18KhtT4

Books & Guides

Title	Author	Link
Agile Conversations	Douglas Squirrel and Jeffrey Fredrick	https://agileconversations.com/agile-conversation-book/
Designing Microservices Platforms with NATS	Chanaka Fernando	https://www.amazon.com/Designing-Microservices-Platforms-NATS-microservices/dp/1801072213
Measure What Matters: How Google, Bono, and the Gates Foundation Rocked the World.	John Doerr and Kris Duggan	https://books.google.com/books/about/Measure_What_Matters.html?id=xYnUDDAAQBAJ

DevSecOps Practitioner Course: Value Added Resources

Neuromancer	William Gibson	https://www.penguinrandomhouse.ca/books/293994/neuromancer-by-william-gibson/9780441007462
Quantum Computing with SILQ Programming	Srinjoy Ganguly and Thomas Canbier	https://www.amazon.com/Quantum-Computing-Silq-Programming-programming/dp/1800569661
The Data Warehouse ETL Toolkit: Practical Techniques for Extracting, Cleaning, Conforming, and Delivering Data.	Ralph Kimball	https://www.amazon.com/Data-Warehouse-ETL-Toolkit-Techniques-Extracting/dp/0764567578
The DevOps Handbook	Gene Kim, Jez Humble, John Willis, Patrick Debois, & Nicole Forsgren	<u>The DevOps Handbook 2nd edition</u>
The Hacker and the State: Cyber Attacks and the New Normal of Geopolitics	Ben Buchanan	https://www.hup.harvard.edu/catalog.php?isbn=9780674987555
The Unicorn Project	Gene Kym	https://itrevolution.com/book/the-unicorn-project/

DevSecOps Practitioner Course: Value Added Resources

Case Stories Featured in the Course

Company	Module	Link
Conversational Transformation	1: DevSecOps Advanced Basics	<ul style="list-style-type: none"> • Agile Conversations by Douglas Squirrel and Jeffrey Fredrick
Doerr	2: Understanding Applied Metrics	<ul style="list-style-type: none"> • Measure What Matters by John Doerr
Air Force Platform One	3: Architecting and Planning for DevSecOps	<ul style="list-style-type: none"> • The Future of Continuous Software Delivery • The Air Force's Platform One Team Thought it was Agile. Then COVID-19 Hit. • Everyone into the Platform One Pool • Modernizing DOD Software Development to Enable Digital Operations • Nicolas Chaillan on Pentagon's Platform One • Platform One Products and Service
IT Rev	4: Creating DevSecOps Infrastructure	<ul style="list-style-type: none"> • The Unicorn Project by Gene Kim
CloudBees & Perfecto	5: Establishing a Pipeline	<ul style="list-style-type: none"> • DevOps with CloudBees and Perfecto Mobile
Ben Buchanan	6: Observing DevSecOps Outcomes	<ul style="list-style-type: none"> • The Hacker and the State
Team ADOC	7: Practical 3 rd Way Applications	<ul style="list-style-type: none"> • Team ADOC: Accelerate Continuous Improvement During your DevOps Journey
William Gibson	8. The Future of DevSecOps	<ul style="list-style-type: none"> • Neuromancer