# **DevOps Engineering**

* Engineering DevOps: From Chaos to Continuous Improvement and Beyond, Marc Hornbeek

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|  | **Engineering DevOps** |
|  | **Part-01: What is Engineering DevOps, and Why is It Important?** |
|  | **What is Engineering DevOps?** |
| 01 | Introduction |
|  | DevOps Engineering Blueprint |
|  | DevOps Engineering Tenets and CALMS |
|  | Origins of DevOps form an Engineering Point of View |
|  | The Dilemma of Defining Engineering DevOps |
|  | DevOps Engineering Terms |
|  | **Nine Pillars of Engineering DevOps** |
|  | Introduction |
|  | Leadership Pillar |
|  | Collaborative Culture Pillar |
|  | Design for DevOps Pillar |
|  | Continuous Integration (CI) Pillar |
|  | Continuous Testing (CT) Pillar |
|  | Elastic Infrastructure (EI) Pillar |
|  | Continuous Monitoring (CM) Pillar |
|  | Continuous Security Pillar |
|  | Continuous Delivery (CD) Pillar |
|  | **Why is Engineering DevOps Important?>** |
|  | Introduction |
|  | Engineering DevOps Myths and Realities |
|  | How Will I Know When I Have Engineered DevOps? |
|  | Benefits of Well-Engineered DevOps – ½ |
|  | Benefits of Well-Engineered DevOps – ½ |
|  | Cost of Not Engineering DevOps Properly |
|  | **Part-02: Engineering People, Process, and Technology for DevOps** |
|  | **How Should People, Process, and Technology be Engineered for DevOps?** |
|  | Does DevOps Engineering Require People to be Engineers? |
|  | DevOps People, Process, and Technology Engineering Maturity Levels |
|  | Three Dimensions of Engineering DevOps – People, Process, and Technology – People |
|  | Three Dimensions of Engineering DevOps – People, Process, and Technology – Process |
|  | Three Dimensions of Engineering DevOps – People, Process, and Technology – Technology |
|  | Twenty-Seven DevOps Engineering Critical Success Factors |
|  | Learn DevOps Value-Stream Pipeline Engineering – 1/3 |
|  | Learn DevOps Value-Stream Pipeline Engineering – 1/ 3 |
|  | Learn DevOps Value-Stream Pipeline Engineering – 1/3 |
|  | **Value-Stream Management (VSM)** |
|  | Why Is Value-Stream Management Important to DevOps? |
|  | How Does Value-Stream Management Work with DevOps? – ½ |
|  | How Does Value-Stream Management Work with DevOps? – ½ |
|  | What is Needed to Engineer a Value-Stream Management Solution for DevOps? |
|  | **Application Release Automation (ARA)** |
|  | Why is Application Release Automation Important? |
|  | How Does Application Release Automation Work? |
|  | What is Needed to Implement Well-Engineered ARA? |
|  | **Version Management** |
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