eBook on Career Path Roadmap

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Exploring the Career Paths in DevOps, Cloud, SRE and Development for New Engineers

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Chapter 1: Introduction to Career Path Transitions

Introduction

Why Transition to DevOps, Cloud, or SRE?

With the rise of automation, cloud computing, and agile methodologies, there's a growing demand for professionals skilled in DevOps, Cloud Engineering, and Site Reliability Engineering (SRE). These roles offer opportunities for career growth, skill enhancement, and higher salaries.

- Increased Demand: As companies seek to deliver software faster and more reliably, roles like DevOps Engineer, Cloud Engineer, and SRE have become essential.
- Alignment with Career Goals: If the engineers already possess any foundational knowledge in infrastructure and systems management, the suggested career path should make them well-suited for a transition into these new roles.
- Higher Salary Potential: Transitioning into a DevOps or Cloud Engineer role often comes with a substantial salary increase, as these skills are highly sought-after.

How to Use This Ebook

Each section of this ebook provides a roadmap for transitioning into a specific role. You'll find:

- Skills and Tools: Core skills, tools, and concepts for each role.
- Learning Path: A 90-day learning roadmap to help you gain the necessary experience.
- Hands-On Projects: Suggested projects to develop practical skills.
- Certifications and Resources: Key certifications, courses, and resources.

Chapter 2: Overview of the DevOps, Cloud, and Development Career Landscape

Introduction to Each Path

For a new engineer, transitioning to DevOps, Cloud, or SRE often involves building on existing knowledge of systems, networking, and scripting. Here's a breakdown of each role:

- DevOps Engineer: Focuses on automating software deployment, creating CI/CD pipelines, and managing infrastructure as code.
- Cloud Engineer: Specializes in cloud infrastructure and services, focusing on building and managing applications in a cloud environment.
- Site Reliability Engineer (SRE): Combines development and operations skills to ensure application reliability and manage incidents.
- Developer (Foundational): Development skills like Python scripting, Git, and REST APIs are crucial as a foundation for these roles.

Core Skills Comparison Table

A side-by-side comparison to clarify the core skills for each role:

Role	Key Skills	Core Responsibilities
DevOps Engineer	CI/CD, IaC, automation, containers	Deployment automation, infrastructure management
Cloud Engineer	Cloud platforms (AWS, Azure, GCP), laC, security	Cloud architecture, resource management
Site Reliability Engineer	Monitoring, incident management, reliability	Reliability engineering, incident response
Developer (Foundational)	Python, Git, REST APIs	Basic automation, scripting, API integration

Career Level Progression

Each path can progress from junior roles to senior or specialized roles like:

- DevOps Engineer → DevOps Architect or Consultant
- Cloud Engineer → Cloud Architect or Cloud Security Consultant
- SRE → Senior SRE or Reliability Architect

Chapter 3: DevOps Engineer Career Path

Who is a DevOps Engineer?

DevOps Engineers bridge the gap between software development and operations by automating deployment, managing infrastructure, and implementing CI/CD pipelines. They play a crucial role in streamlining software delivery.

Skills Required

- 1. CI/CD Automation:
 - o Jenkins: Automates builds, tests, and deployment. <u>Documentation</u>
 - o GitHub Actions: CI/CD directly on GitHub. <u>Documentation</u>
 - o GitLab CI/CD: CI/CD for GitLab projects. <u>Documentation</u>
- 2. Infrastructure as Code (IaC):
 - Terraform: Enables infrastructure provisioning across cloud platforms.
 <u>Documentation</u>
 - Ansible: Configuration management and application deployment.
 Documentation
- 3. Containerization and Orchestration:
 - Docker: Packages applications in lightweight containers.
 <u>Documentation</u>
 - Kubernetes: Orchestrates containers at scale. <u>Documentation</u>
- 4. Monitoring and Logging:
 - Prometheus: Monitors metrics and generates alerts. <u>Documentation</u>
 - o Grafana: Visualizes metrics collected by Prometheus. <u>Documentation</u>

Getting Started: Roadmap for Transition

- First 30 Days: Start with CI/CD tools, basic pipelines with Jenkins or GitHub Actions.
- 60 Days: Explore IaC with Terraform, automate infrastructure setups.
- 90 Days: Learn Docker basics, deploy containerized applications on Kubernetes.

Suggested Projects

- CI/CD Pipeline: Set up a pipeline with Jenkins for a sample web application.
- IaC Deployment: Use Terraform to deploy an EC2 instance on AWS.
- Containerization: Dockerize a Node.js application and deploy it on Kubernetes.

Certifications and Learning Resources

- Certifications: AWS Certified DevOps Engineer, Docker Certified Associate.
- Resources: <u>AWS Training</u>, <u>Udemy DevOps Courses</u>.

Chapter 4: Cloud Engineer Career Path

Who is a Cloud Engineer?

Cloud Engineers manage and architect applications in cloud environments like AWS, Azure, or GCP. They handle everything from resource allocation to network configuration and security.

Skills Required

- 1. Cloud Platforms:
 - o AWS: <u>AWS Documentation</u>
 - o Azure: <u>Azure Documentation</u>
 - o GCP: GCP Documentation
- 2. Infrastructure as Code:
 - AWS CloudFormation: <u>Documentation</u>
 - Azure Resource Manager (ARM): <u>Documentation</u>
 - o Terraform: Cross-platform IaC. <u>Documentation</u>

- 3. Networking and Security:
 - AWS VPC: Virtual networking. <u>Documentation</u>
 - Azure Virtual Network: Network configuration in Azure.
 Documentation

Getting Started: Roadmap for Transition

- First 30 Days: Complete basic certifications in AWS or Azure, focus on cloud platform fundamentals.
- 60 Days: Learn IaC with CloudFormation or Terraform; automate deployments.
- 90 Days: Work with advanced network and security setups for multi-tier applications.

Suggested Projects

- Cloud Deployment: Deploy a serverless application with AWS Lambda or Azure Functions.
- IaC Template: Create a CloudFormation template to deploy an EC2 instance with a VPC.
- Security Project: Set up IAM policies and secure network configurations.

Certifications and Learning Resources

- Certifications: AWS Certified Solutions Architect, Azure Administrator.
- Resources: <u>Cloud Academy</u>, <u>Google Cloud Training</u>.

Chapter 5: Site Reliability Engineer (SRE) Career Path

Who is a Site Reliability Engineer (SRE)?

SREs are responsible for system reliability, focusing on maintaining uptime, optimizing performance, and managing incidents. They use automation to reduce manual tasks and ensure high availability.

Skills Required

1. Reliability Engineering:

- Service Level Objectives (SLOs): Define targets for reliability. <u>Google</u>
 SRE Handbook
- o Error Budgets: Track acceptable downtime or failure rates.
- 2. Monitoring and Observability:
 - o Prometheus: Collects and stores metrics. <u>Documentation</u>
 - o Grafana: Visualizes metrics and creates alerts. Documentation
- 3. Incident Management:
 - o PagerDuty: Alerts for on-call teams. <u>Documentation</u>
 - ELK Stack: Centralized logging. <u>Documentation</u>

Getting Started: Roadmap for Transition

- First 30 Days: Learn about SLOs, error budgets, and incident response.
- 60 Days: Set up Prometheus and Grafana for monitoring.
- 90 Days: Practice incident response and automation for common issues.

Suggested Projects

- Monitoring Setup: Configure Prometheus and Grafana for application monitoring.
- Alerting System: Create a PagerDuty alert system for high-priority issues.
- Automation: Write scripts to automate responses for common incidents.

Certifications and Learning Resources

- Certifications: Google Professional Cloud DevOps Engineer, AWS SysOps Administrator.
 - Resources: <u>SRE Handbook by Google</u>, <u>Datadog Training</u>.

Chapter 6: Development as a Foundational Skill for All Paths

Why Development Skills Are Valuable

Programming and scripting are crucial in all three roles for automation, CI/CD, and IaC. Knowing Python or Bash can help with cloud resource management, automation tasks, and pipeline configuration.

Core Development Skills

- 1. Python: Essential for scripting and automation. Python Documentation
- 2. Bash: Used for automating tasks on Linux servers. Bash Scripting Guide
- 3. Git: Version control for tracking changes. <u>Documentation</u>

Suggested Practice Projects

- Python Automation Script: Automate a repetitive task, like log parsing.
- REST API Deployment: Write and deploy a simple REST API on a cloud platform.
- Git Portfolio: Showcase your projects on GitHub.

Chapter 7: Advanced Roles and Specializations

- 1. Cloud Architect:
 - Advanced knowledge in cloud security and architecture. Consider AWS Certified Solutions Architect.
- 2. DevOps Consultant:
 - Advanced CI/CD skills, with emphasis on consulting for scalable solutions. Consider Docker Certified Associate.
- 3. Cloud Security Consultant:
 - Focus on IAM, encryption, and compliance across cloud platforms.
 Consider Certified Cloud Security Professional (CCSP).

Chapter 8: Transitioning to Your Chosen Career Path

Transitioning into a new career path like DevOps, Cloud Engineering, or Site Reliability Engineering (SRE) requires a systematic approach. This chapter provides a detailed self-assessment checklist to help identify areas for improvement, steps for creating a strong professional portfolio, and strategies for effective networking to enhance your career prospects.

Self-Assessment Checklist

Use this checklist to assess your skills and identify areas that may need improvement for each specific role. Answer these questions honestly to better understand your readiness and what to focus on in your learning journey.

Self-Assessment Checklist for DevOps Engineer

- 1. Continuous Integration/Continuous Deployment (CI/CD)
 - Do I understand the concepts of CI/CD and their importance in modern software development?
 - Have I built or managed CI/CD pipelines using tools like Jenkins, GitHub Actions, or GitLab CI/CD?
 - Can I automate tasks such as code builds, testing, and deployment?

2. Infrastructure as Code (IaC)

- Am I familiar with the principles of IaC and its benefits over manual configuration?
- Have I used IaC tools such as Terraform or Ansible to define and deploy infrastructure?
- Can I create, manage, and maintain infrastructure configurations in a scalable and version-controlled way?

3. Containerization and Orchestration

- Do I understand containerization concepts, and am I experienced with using Docker?
- Have I deployed and managed containerized applications with orchestration tools like Kubernetes?
- Can I design and manage a scalable environment using containerization best practices?

4. Monitoring and Logging

- Am I able to set up monitoring systems with tools such as Prometheus and Grafana?
- Can I configure centralized logging and create visualizations using the ELK Stack (Elasticsearch, Logstash, and Kibana)?
- Do I understand how to set up alerts and analyze logs for troubleshooting purposes?

Self-Assessment Checklist for Cloud Engineer

1. Cloud Platforms

- Am I knowledgeable about the main services and architecture of cloud providers like AWS, Azure, or Google Cloud Platform (GCP)?
- Have I deployed and managed resources, such as virtual machines and databases, on one or more of these cloud platforms?
- Can I troubleshoot and optimize cloud resources to maintain cost-effectiveness?

2. Infrastructure as Code (IaC)

- Do I know how to use cloud-specific IaC tools like AWS CloudFormation, Azure Resource Manager (ARM) templates, or Google Cloud Deployment Manager?
- Have I created automated deployment templates to configure infrastructure in the cloud?
- Can I manage cloud infrastructure through code to ensure scalability and consistency?

3. Networking and Security

- Do I understand virtual networking concepts such as VPCs, subnets, routing, and security groups?
- Am I familiar with cloud security best practices, including Identity and Access Management (IAM)?
- Can I configure secure connections, apply role-based access control, and understand compliance considerations in the cloud?

4. Automation and Scripting

- Can I automate cloud tasks using scripting languages like Python or Bash?
- Have I worked with serverless solutions like AWS Lambda, Azure Functions, or Google Cloud Functions?
- Am I able to automate infrastructure provisioning and other routine tasks in the cloud environment?

Self-Assessment Checklist for Site Reliability Engineer (SRE)

1. Reliability Engineering

- Do I understand key SRE concepts such as Service Level Objectives (SLOs), Service Level Indicators (SLIs), and Error Budgets?
- Have I applied these concepts to manage and improve system reliability?
- Can I establish reliability metrics and measure service performance effectively?

2. Monitoring and Observability

- Am I skilled in setting up monitoring and alerting systems using tools like Prometheus and Grafana?
- Can I implement observability practices to gain insights into system performance and troubleshoot issues?
- Do I understand the importance of visibility and transparency in production environments?

3. Incident Management

- Have I worked with incident response processes and tools such as PagerDuty for managing incidents?
- Can I effectively troubleshoot and resolve issues under pressure?
- Am I experienced with conducting post-incident reviews, identifying root causes, and implementing improvements?

4. Automation and Scripting

- Can I automate operational tasks to reduce repetitive work and increase efficiency?
- Am I proficient in using scripting languages like Python or Go for automating reliability and monitoring tasks?
- Do I know how to create self-healing systems and automate responses to common issues?

Developing a Professional Portfolio

A well-organized and comprehensive portfolio can showcase your skills and achievements, making you stand out to potential employers. Here's how to create a portfolio that effectively demonstrates your capabilities:

1. GitHub Repositories

- Host Projects: Upload code and projects on GitHub to showcase your work and skills.
- Documentation: Include detailed README files explaining each project's purpose, technologies used, and setup instructions. Use markdown for clarity and accessibility.
- Version Control: Demonstrate version control skills by structuring repositories with clear commit histories, branching strategies, and tags.

2. Project Documentation

- Comprehensive Documentation: Include architecture diagrams, deployment guides, and troubleshooting steps. This shows attention to detail and clarity in communicating technical information.
- Tools for Documentation: Use documentation tools like <u>MkDocs</u> or <u>Sphinx</u> for creating professional, structured documentation.

3. Blog Posts or Articles

- Share Experiences: Write about learning experiences, challenges faced, and solutions found in your projects. These articles can demonstrate your problem-solving skills and technical knowledge.
- Platform Suggestions: Use platforms like <u>Medium</u> or <u>Dev.to</u> to publish and reach a wider audience. Link these posts on your LinkedIn profile or GitHub for added visibility.

4. LinkedIn Profile

- Keep Updated: Ensure your LinkedIn profile is updated with your latest projects, certifications, and skills.
- Professional Connections: Engage with industry groups, communities, and professionals. Share insights, and engage with posts related to DevOps, Cloud, and SRE to build your network.

Networking and Community Engagement

Building a professional network and engaging with relevant communities can help you stay updated, find support, and even discover job opportunities.

1. Join Professional Communities

- Forums and Platforms: Engage on forums like <u>Stack Overflow</u> or <u>Reddit</u>, where you can ask questions, share knowledge, and build connections.
- Meetups and Events: Attend meetups, workshops, or online events to network and learn from peers.

2. Contribute to Open Source

- Collaboration: Contribute to open-source projects to gain practical experience and enhance your visibility.
- Platform Suggestions: Use <u>GitHub</u> and <u>GitLab</u> to find projects seeking contributors.

Attend Conferences and Webinars

- Industry Events: Attend events like <u>KubeCon</u> or <u>AWS re:Invent</u> to learn about trends, tools, and technologies.
- Online Webinars: Participate in webinars from platforms like <u>Cloud</u> <u>Native Computing Foundation</u> or DevOps groups for skill-building and networking.

4. Seek Mentorship

- Find a Mentor: Reach out to experienced professionals in your field for guidance, either through LinkedIn or community platforms.
- Mentorship Programs: Join mentorship programs through organizations or tech groups that align with your interests.

By focusing on these steps in Chapter 8, you can create a strong foundation for transitioning to a DevOps, Cloud Engineering, or SRE role, showcasing your skills and building connections within the industry. This proactive approach to career development will help you stand out in a competitive job market.

• Networking: Join communities like <u>DevOps Slack Groups</u> or <u>Cloud Slack Groups</u>.

Chapter 9: Resource Library

The journey into DevOps, Cloud Engineering, or Site Reliability Engineering (SRE) requires continuous learning and skill-building. This chapter includes essential resources to support your career transition, including certifications, online learning platforms, recommended books, and professional communities.

1. Certification Guide

Certifications are valuable credentials that can validate your knowledge and skills, demonstrating your expertise to potential employers. Here are recommended certifications for each career path:

DevOps Engineer Certifications

- AWS Certified DevOps Engineer Professional
 - Covers DevOps on AWS, including CI/CD, monitoring, automation, and IaC.
 - Certification Guide
- Docker Certified Associate
 - Demonstrates containerization knowledge using Docker and container orchestration.
 - Certification Guide
- Microsoft Certified: DevOps Engineer Expert
 - Focuses on implementing DevOps strategies on Azure, including CI/CD and monitoring.
 - Certification Guide

Cloud Engineer Certifications

- AWS Certified Solutions Architect Associate
 - Fundamental AWS certification covering architecture and design in the cloud.
 - Certification Guide
- Google Cloud Associate Cloud Engineer
 - Covers deploying applications, managing cloud resources, and configuration in GCP.
 - Certification Guide
- Microsoft Certified: Azure Administrator Associate
 - o Covers Azure cloud management, virtual networking, and security.
 - o Certification Guide

Site Reliability Engineer (SRE) Certifications

Google Professional Cloud DevOps Engineer

- Focuses on cloud reliability, automation, and monitoring best practices for GCP.
- Certification Guide
- AWS Certified SysOps Administrator Associate
 - Covers AWS operations, monitoring, and troubleshooting.
 - Certification Guide
- Certified Kubernetes Administrator (CKA)
 - Demonstrates Kubernetes management, troubleshooting, and security.
 - Certification Guide

2. Online Courses and Learning Platforms

Learning platforms and online courses provide accessible ways to build expertise in DevOps, Cloud, and SRE. Here are some of the most recommended platforms and courses:

- A Cloud Guru: Comprehensive courses on AWS, Azure, and Google Cloud certifications, as well as DevOps topics.
 - A Cloud Guru
- Udemy: Thousands of courses covering DevOps, Cloud, SRE, and programming. Recommended courses include:
 - Docker and Kubernetes: The Complete Guide by Stephen Grider
 - o AWS Certified Solutions Architect Associate 2023 by Adrian Cantrill
 - Udemy
- Coursera: Offers courses from universities and companies, including Google Cloud, IBM, and Stanford. Top courses:
 - Google IT Automation with Python by Google
 - Introduction to DevOps and Site Reliability Engineering by Google Cloud
 - o Coursera
- Pluralsight: Covers Cloud, DevOps, and SRE with skill assessments and guided paths.
 - o Pluralsight

3. Recommended Books and Articles

Books and articles provide in-depth insights and context for various practices, methodologies, and tools used in DevOps, Cloud, and SRE.

- "The Phoenix Project" by Gene Kim, Kevin Behr, and George Spafford
 - A novel that illustrates the DevOps principles through a fictional story.
 Ideal for understanding DevOps culture.
- "Accelerate: The Science of Lean Software and DevOps" by Nicole Forsgren, Jez Humble, and Gene Kim
 - Covers the research behind DevOps and continuous improvement for high-performing teams.
- "The Site Reliability Workbook" by Google SRE Team
 - Practical workbook with guidance on applying SRE principles, a follow-up to the original SRE book.
- "Terraform: Up & Running" by Yevgeniy Brikman
 - A practical guide to IaC and automation with Terraform.
- "Kubernetes Up & Running" by Kelsey Hightower, Brendan Burns, and Joe Beda
 - Comprehensive guide to Kubernetes, covering clusters, deployment, and scaling.
- "Cloud Architecture Patterns" by Bill Wilder
 - Explores cloud architecture best practices and design patterns.

4. Communities and Forums

Engaging with communities helps you stay updated, learn from others, and build a professional network.

- Stack Overflow: One of the largest developer communities, with forums for DevOps, Cloud, and programming questions.
 - Stack Overflow
- Reddit Communities:
 - o r/devops: Focuses on DevOps practices, tools, and discussions.
 - r/aws: Dedicated to AWS discussions, resources, and community support.

- r/kubernetes: A place to discuss Kubernetes topics, tutorials, and updates.
- o Reddit
- LinkedIn Groups:
 - DevOps Institute Community: A professional group for DevOps professionals to share knowledge.
 - Cloud Computing Group: Dedicated to cloud professionals sharing insights on cloud computing.
- Slack Communities:
 - DevOps Chat: Slack group with channels on CI/CD, Cloud, and more.
 DevOps Chat
 - Cloud Slackers: Group for Cloud enthusiasts and professionals. <u>Cloud</u>
 Slackers

Appendix: Glossary of Terms

This glossary provides definitions of common terms, concepts, and tools in DevOps, Cloud, and SRE. Use it as a quick reference for technical jargon.

Glossary of Terms

- CI/CD (Continuous Integration/Continuous Deployment): A set of practices to automate the process of integrating code changes, testing, and deploying software to production.
- Infrastructure as Code (IaC): The management of infrastructure using code and automation tools, allowing configurations to be versioned, reusable, and consistent.
- Containers: Lightweight, portable environments that package applications and dependencies, typically managed by tools like Docker.
- Orchestration: The automated management of containers, including deployment, scaling, and load balancing, often done using Kubernetes.
- Monitoring: The practice of collecting and analyzing metrics from systems to ensure health and performance, often involving tools like Prometheus and Grafana.

- SLO (Service Level Objective): A measurable goal for system reliability, such as 99.9% uptime, set to meet user expectations.
- SRE (Site Reliability Engineering): A practice that applies engineering principles to operations, focusing on automation and reliability.
- VPC (Virtual Private Cloud): A virtual network within cloud platforms like AWS and GCP, used to isolate and secure resources.
- IAM (Identity and Access Management): Systems for managing users, roles, and permissions to access cloud resources securely.
- Serverless Computing: A cloud-computing execution model where the cloud provider dynamically manages server allocation, such as with AWS Lambda or Azure Functions.
- Git: A version control system used for tracking code changes and collaborating with other developers, hosted on platforms like GitHub and GitLab.
- Prometheus: An open-source monitoring tool for collecting and querying metrics, often paired with Grafana for visualization.
- Terraform: An open-source IaC tool that allows you to define and provision infrastructure across various cloud platforms.
- Kubernetes: An open-source orchestration system for managing, scaling, and automating containerized applications.
- Elastic Stack (ELK): A suite of tools (Elasticsearch, Logstash, Kibana) used for centralized logging, data analysis, and visualization.
- AWS CloudFormation: A service for creating and managing AWS resources through IaC.
- Docker: A platform for building, running, and shipping containerized applications, simplifying application deployment.
- PagerDuty: An incident response tool used to manage on-call notifications and track incidents for rapid issue resolution.
- DevOps Culture: A collaborative culture that promotes communication and integration between development and operations to accelerate delivery and improve software quality.
- Error Budget: A tolerance limit for acceptable downtime or performance issues in a system, defined as part of SRE practices.

 Post-Mortem: A document created after an incident to analyze root causes, document findings, and identify improvements.

This resource-rich Chapter 9 and glossary will provide readers with the tools, platforms, and knowledge they need to support their ongoing learning, skill-building, and networking in DevOps, Cloud, and SRE fields.

Conclusion

This e-book provides detailed guidance, tool documentation links, certifications, and project ideas to guide operations engineers in each career path. Each chapter serves as a standalone guide to help readers build skills and transition into a DevOps, Cloud, or SRE role. Let me know if you need further expansion on any specific section!

If you are interested to get mentored <u>reach out to me on LinkedIn</u>

Apply for Jobs to work@cloudenginelabs.io