

Advanced GitLab and DevOps Training

This advanced DevOps training shows tasks using GitLab while emphasizing its integration with other DevOps tools. GitLab isn't siloed from the multitude of other DevOps tools. GitLab is one of many tools you can use to automate various development and operations tasks. As you become more advanced, you realize DevOps tools like GitLab should be used with other tools in order to speed up workflows and make them more efficient.

[CBT Nuggets course material](#) →

WEEK 1

Deploy GitLab on Self-Hosted Infrastructure

153 min.

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Learn About Self-Hosted GitLab Cloud Architecture	7
Deploy Virtual Machine for Self-Hosting GitLab	5
Configure DNS Records for Self-Hosted GitLab	7
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Configure GitLab TLS Certificate and Access Credentials	8
Setting Up and Verifying SMTP from GitLab	11

Administer Self-Hosted GitLab Instances

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Test and Tweak GitLab Webhook Notification Message	12
Deploy GitLab Shared Runner Infrastructure	8
Enable Access to GitLab Metrics for Prometheus	11
Enable and Explore Grafana for GitLab Omnibus	5

Deploy Apps on Kubernetes with GitLab GitOps

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Authenticate to GitLab Container Registry from Kubernetes	11

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Install Cloudflared Agent for Tunneling 7

Create Cloudflare Tunnel Public Hostname Rule 7

Automate the GitLab REST API with PowerShell

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Control GitLab Instances using Ruby Rake Tasks

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Obtain Debugging Info From GitLab Task 10

Execute Database Maintenance Tasks for GitLab Server 9

Import GitHub Projects to GitLab Server 9

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Run Multiple GitLab Resource Queries in GraphQL 8

Query Related GitLab Resources with GraphQL 6

Intro to Resource Mutations in GitLab GraphQL API 8

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WEEK 4

80 min.

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Create Vault Application Identity Role and JWT Claims 9

Create Vault Access Control Policy 6

Test GitLab CICD Pipeline with Vault Secrets 9

Deploy Terraform Projects with GitLab

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Understanding the GitLab CI/CD Template for Terraform 8

Add Terraform Provider Config and Authentication Token 9

Deploy Cloud Virtual Machine with GitLab Pipeline 11

Specify Multiple Terraform Environments in GitLab Projects 10