



ALL

THE PURRRFECT TRAININGS

Custom trainings for high
performance teams.



INFRALOVERS

ABOUT INFRALOVERS

Our courses combine knowledge from our previous and ongoing consulting projects to deliver practical, hands-on experiences.

Based in Austria, we provide European-wide training and workshops available in German and English. Due to our positive experiences and the flexibility it offers, we mostly give our courses remotely. If requested, we are also available on-site.

Infralovers is an official HashiCorp partner since January 2022.

Our Experienced trainers have built up years of experience in our consulting projects. We only teach what we have personally experienced, tested, and applied with clients. This is the only way we can credibly and professionally teach our knowledge to our training participants.

DI Edmund Haselwanter
CEO & Chef Trainer



FACT-SHEET

LANGUAGE & LOCATION

All our courses can be held in english or german. We mostly teach remotely but are also available on-site.

EXPERIENCED TRAINERS

Our experienced trainers have years of field experience and evolve constantly.

CLOUD FOCUS

Our most loved trainings are about HashiCorp, Cloud Native, GitLab, Kubernetes & Ansible.

EU BASED

Infralovers is an Austrian based company in Graz.

1.560

AVERAGE **HOURS**
OF COURSES GIVEN
PER YEAR

94 %

OF ATTENDEES WOULD
LOVE TO ATTEND
FURTHER COURSES.

2013

10+ YEARS OF
EXPERIENCE
AND KNOWLEDGE.

GET YOUR PERSONALISED QUOTE: TEAM@INFRALOVERS.COM



OUR COURSES

We are IT-Experts and we want you to be one too. All our trainers have years of experience in the tech industry and are experts at teaching complex topics in a simple way.

There are tons of great tasting courses here, one better than the other.



KING
OF CLOUD
TRAININGS

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Terraform Testing

HASHICORP SOLUTIONS

HashiCorp offers a range of solutions that simplify the process of managing and securing your infrastructure, including tools for provisioning, configuring, securing, and operating cloud infrastructure.

HashiCorp products automate, secure and simplify infrastructure management, boosting operational efficiency in modern IT.



KING OF CLOUD TRAININGS

[*developer.hashicorp.com/well-architected-framework](https://developer.hashicorp.com/well-architected-framework)

ABOUT HASHICORP

HashiCorp products provide powerful automation and collaboration tools that simplify the management of modern infrastructure, ensuring scalability, security, and agility for organizations.

Terraform enables you to easily create, manage, and update infrastructure as code across multiple cloud providers and on-premises, reducing human error and increasing efficiency.

Consul is a centralized platform for service discovery, configuration, and segmentation, allowing you to easily connect and secure distributed applications and services.

Vault provides secure storage and management of secrets and sensitive data, as well as access control and auditing capabilities, helping you to protect critical assets and meet compliance requirements.

Nomad is a powerful and easy-to-use platform for deploying and managing containerized and non-containerized applications across diverse infrastructure, enabling you to achieve greater flexibility, scalability, and resilience in your IT operations.

TOOLS



HASHICORP CLOUD OPERATING MODEL*

The fastest path to unlock value in a multi-cloud datacenter, enabling efficient collaboration of people, processes, and tools.







HASHICORP CLOUD OPERATING MODEL*

INFRALOVERS EDITION

HashiCorp's cloud operating model enables your organization to unlock the fastest path to value in a modern multi-cloud datacenter. When your organization adopts this common operating model, it enables people, processes, and tools to work most efficiently.

We help you to start your state of the art multi-cloud datacenter today with our wide variety of HashiCorp courses.

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LET'S LIFT
OFF TO THE
CLOUDS.

1. PROVISION

INFRASTRUCTURE AUTOMATION WITH TERRAFORM

- > Infrastructure as code
- > Compliance & management
- > Self service infrastructure



2. SECURE

SECURITY AUTOMATION WITH VAULT

- > Identity-based security
- > Secrets management
- > Encryption as a service
- > Advanced data protection

3. NETWORK

NETWORKING AUTOMATION WITH CONSUL

- > Common service registry
- > Health monitoring
- > Networking middleware automation
- > Service mesh

4. DEPLOY

APPLICATION AUTOMATION WITH NOMAD

- > Workload orchestration
- > Container orchestration
- > Heterogeneous orchestration



*developer.hashicorp.com/well-architected-framework

TERRAFORM FOUNDATIONS

HASHICORP ACADEMY

Introduction to modern infrastructure provisioning.

Topic: HashiCorp | ⌚ 3 Days | 📖 Beginner

DESCRIPTION

This is an introductory course that covers HashiCorp Terraform, a simple and powerful tool for safely and predictably creating, changing, and improving infrastructure. If you have never used Terraform, this is the place to start.

Students will receive access to their own personal Linux-based lab environment for the class. This is a three day course and it includes time for lectures, lab exercises, Q&A, and several breaks.

AGENDA

- > Understanding the Terraform workflow
- > Terraform syntax, internals, and patterns
- > HashiCorp Language (HCL)
- > Terraform CLI
- > State management
- > Terraform Providers
- > Authoring and using Terraform modules
- > Terraform Provisioners
- > Testing
- > Best practices

The WiseWhale fact

Terraform is the most popular „Infrastructure as Code“ tool on the market. A de facto standard since many years.



AUDIENCE

Anyone who wants to learn Terraform.

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal

[TAKE A LOOK ONLINE →](#)



HashiCorp
Terraform

ADVANCED TERRAFORM CLOUD/ENTERPRISE

HASHICORP ACADEMY

Collaborative infrastructure automation.

Topic: HashiCorp | ⌚ 3 Days | 📊 Intermediate

DESCRIPTION

This course is aimed at existing Terraform users who desire an in-depth exploration of collaborative workflows and advanced features with Terraform Cloud or Enterprise.

Students will receive access to their own personal Linux-based lab environment for the class. We highly recommend to complete the “Terraform Foundations” course before attending this one.

AGENDA

- > Terraform Review
- > TFC/E Platform and UI
- > State (remote and importing resources)
- > Workspaces
- > TFC/E Variables
- > Workflows - CLI, VSC, API
- > User & Group Organization
- > Private Module Registry
- > Operations and Governance
- > Sentinel
- > Sentinel CLI and Mocks
- > Sentinel Language

The CleverRaccoon says:

Let's provide a secure, scalable,
and collaborative infrastructure
management.



AUDIENCE

- > Cloud SRE's
- > DevOps
- > System Administrators

PREREQUISITES

- > Terraform Foundations
- > GitLab Essentials
- > Basic understanding of Linux
- > Basic experience with the Linux terminal

[TAKE A LOOK ONLINE →](#)



HashiCorp

Terraform

TERRAFORM PLUGIN DEVELOPMENT

Write your own Terraform plugins
with ease.

Topic: HashiCorp | ⌚ 2 Days | 📊 Intermediate

DESCRIPTION

Terraform supports a plugin model, and all providers are actually plugins. Plugins are distributed as Go binaries. With such a plugin system, it is easy to extend Terraform with custom features.

This course will show how to write your own Terraform plugins. We will go into the challenges that come with it and provide lots of best-practices to get you started.

AGENDA

- > What are Terraform plugin?
- > Terraform provider/plugin skeleton
- > The provider schema
- > Building a plugin
- > Defining resources
- > Invoking your custom provider
- > Error Handling & Partial State
- > Plugin best-practices

[TAKE A LOOK ONLINE →](#)

The GoGorilla says:

„Terraform is developed with Go. You should definitely have a look at this programming language before this training. Otherwise you will go ape!,,



AUDIENCE

Regular Terraform users.

PREREQUISITES

- > Terraform Foundations
- > Basic understanding of Go
- > Basic understanding of Linux
- > Basic experience with the Linux terminal



HashiCorp

Terraform

TERRAFORM TESTING

Test your Terraform managed infrastructure.

Topic: HashiCorp | ⌚ 2 Days | 📊 Intermediate

DESCRIPTION

After working with Terraform for some time, the following question often arises: How do you test the developed code as automatically as possible? A terraform run shows us the result, but can we really trust it? Terraform test tools help us with the answer.

This course shows how to use the most common test tools for Terraform to test your own modules and their results. In addition, the course teaches as much Go as you need to use these tools.

AGENDA

- > What are infrastructure tests?
- > Why and how to test Terraform?
- > Linting Terraform
- > Go basics
- > Terratest
- > Kitchen-Terraform
- > Terraform Test
- > Best-practices when testing Terraform

[TAKE A LOOK ONLINE →](#)

The SmartDog tip

Better safe than sorry. Those who do not test prior to deploying to production will soon find themselves overwhelmed with issues and challenges.



AUDIENCE

System and cloud administrators who are interested in using infrastructure tests for Terraform and automating them.

PREREQUISITES

- > Terraform Foundations
- > Basic understanding of Linux
- > Basic experience with the Linux terminal



HashiCorp

Terraform

VAULT ENTERPRISE

HASHICORP ACADEMY

Introduction to HashiCorp Vault.

The CraftyDonkey quote

“An investment in knowledge
pays the best interest.” -
Benjamin Franklin



Topic: HashiCorp | ⌚ 3 Days | 📖 Beginner

DESCRIPTION

This is an introductory course that covers HashiCorp Vault, a simple and powerful tool for managing secrets & protecting sensitive data. If you have never used Vault, this is the place to start.

Students will receive access to their own personal Linux-based lab environment for the class. This is a three day course and it includes time for lectures, lab exercises, Q&A, and several breaks.

AGENDA

- > Vault architecture
- > Deployment guidelines
- > Vault configuration & operation
- > Enterprise replication
- > Deployment automation
- > Incident management
- > Token & policies
- > Authentication methods
- > Static & dynamic secrets
- > Deploying secrets
- > Onboarding users

AUDIENCE

Anyone who wants to learn Vault.

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal

[TAKE A LOOK ONLINE →](#)



HashiCorp
Vault

CONSUL ENTERPRISE

HASHICORP ACADEMY

Connect dynamic applications.

Topic: HashiCorp | ⌚ 3 Days | 📖 Beginner

DESCRIPTION

This is an introductory course that covers HashiCorp Consul. Consul is a powerful tool that can automate network configurations, discover services, and enable secure connectivity across any cloud or runtime.

Students will receive access to their own personal Linux-based lab environment for the class. This is a three day course and it includes time for lectures, lab exercises, Q&A, and several breaks.

AGENDA

- > Consul Architecture
- > Enterprise Security Model
- > Consul and Kubernetes
- > Datacenter Federation
- > Service Discovery
- > Mesh Gateways
- > Service Configuration
- > Incident management
- > Operations & maintenance
- > Next Steps

The SmartCat tip

“Less is more”, that may apply to some areas of life. When it comes to knowledge, this is clearly the wrong approach.



AUDIENCE

Aynone who wants to learn Consul.

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal

[TAKE A LOOK ONLINE →](#)



NOMAD 101

Deploy and manage containers
and non-containerized
applications.

Topic: HashiCorp | ⌚ 1 Day | 📖 Beginner

DESCRIPTION

This is an introductory course aimed at users who desire an in-depth exploration of Nomad including architecture, installation & configuration, scheduling, operations, and advanced topics.

Students will receive access to their own personal Linux-based lab environment for the class.

AGENDA

- > Architecture Overview
- > Installing and Configuring Nomad
- > Creating and Running Jobs
- > Service Discovery with Consul
- > Operating Nomad
- > Interacting with the HTTP API
- > Advanced Job Strategies

[TAKE A LOOK ONLINE →](#)

KING
OF CLOUD
TRAININGS



The CraftyDonkey quote

„Knowing is not enough - you
have to apply. It is not enough
to want - you have to do it too.“
- Goethe



AUDIENCE

Anyone interested in Nomad.

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal



HashiCorp
Nomad

YOUR WAY TROUGH CLOUD NATIVE*

OUR CLOUD NATIVE COURSES

1. CONTAINERISATION

All applications and dependencies can be **containerized**. It is recommended to aim for breaking down appropriate applications and developing new features as microservices over time.

SEE FROM PAGE 16



2. CI/CD



Implement a **CI/CD** pipeline that automates building, testing, and deploying new container images whenever changes are made to the source code. Automatic testing, rollouts, and rollbacks ensure smooth and reliable deployment to staging and production environments.

SEE FROM PAGE 23



3. ORCHESTRATION

Kubernetes is the market leader solution for orchestration solution.

PAGE 16

4. OBSERVABILITY & ANALYSIS

Solutions for monitoring, logging and trace like Fluentd, Jaeger, Prometheus

PAGE 17

*www.cncf.io

LET'S WALK
THE PATH
TOGETHER.



OUR CLOUD NATIVE COURSES

Cloud native allows **faster development, easier scalability, higher resilience, and lower costs** through the use of containerization and microservices.



Cloud native improves performance and saves money by using smarter technology.

KING OF CLOUD TRAININGS

ABOUT CLOUD NATIVE

Cloud native is a way of building and running apps that makes use of the cloud's features. It helps apps grow easily, recover from failures, and launch quickly. If you want to be more agile and efficient, it's a perfect match.

Kubernetes automates your app management by automating the deployment, scaling, and management of containerized applications.

Prometheus is a monitoring and alerting tool that helps you track and analyse metrics from various systems and applications.

Grafana & Kibana are data visualization tools. They help you make sense of complex data stored in e.g. Elasticsearch or Loki by creating interactive charts and graphs.

Jaeger is a distributed tracing system. It helps you troubleshoot and optimize complex systems by visualizing interactions between instrumented with OpenTelemetry.

Fluentd is a data collection and forwarding tool. It helps you unify your log data to multiple destinations like elasticsearch or loki for analysis and processing.

TOOLS



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CLOUD NATIVE BOOTCAMP

Dive into the world of DevOps, Source Control Management, CI/CD and Containers.

Topic: Cloud Native | ⌚ 6 Days | 📖 Beginner

DESCRIPTION

We will start this course by introducing Git, the most widely used source control management software. Git will help you to keep track of your code.

On the second day, GitLab CI, a widely used continuous integration software, will be our focus. GitLab CI provides mechanisms with which we can automate test processes for newly written code, improve code quality and manage the delivery of our code.

On day three and four, you will learn everything you need to know to get started in the world of Docker, Containers and Kubernetes. Kubernetes is quickly becoming the de-facto standard to operate containerized applications at scale. This course covers the essential knowledge needed to understand Kubernetes and includes instructions on how to deploy distributed applications that will scale, be fault-tolerant and simple to manage.

During the last two days, we dive into the world of Observability. The ability to observe services, is becoming increasingly important in the world of DevOps, Containers and Microservices. The more Containers/Services you operate, the more difficult it becomes to keep track of them. We will show how you can always know how your services are doing.

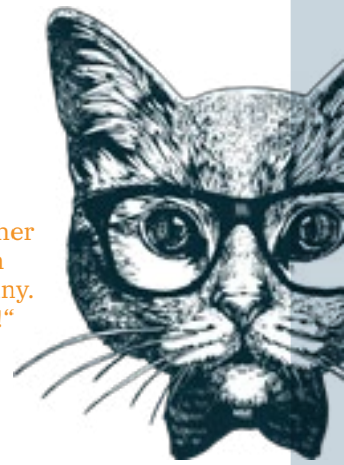
AGENDA

- > Source control with Git
- > Git-Workflows
- > Solving Git conflicts
- > What is CI/CD?
- > Building pipelines with GitLabCI
- > Monolith vs Microservices
- > 12-Factor-App
- > API Gateways
- > Kubernetes Essentials
- > Observability
- > Logging, Monitoring, Tracing, Alerting
- > Fluentd, Prometheus, Grafana, Jaeger
- > Chaos Engineering

[TAKE A LOOK ONLINE →](#)

The CustomCat says:

„This training was put together individually for a German telecommunications company. We can do that for you too!“



AUDIENCE

- > Software Developers that want to have control over their source code
- > System-, Cloud-Administrators and Developers that want to reduce time spent on deployment and testing
- > System- and Cloud-Administrators interested in, or responsible for, maintaining a large number of servers or virtual instances
- > Software developers that want to learn how to deploy their applications within Kubernetes

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal

KING OF INDIVIDUAL TRAININGS

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MEETING**

CLOUD NATIVE ESSENTIALS

This is an introduction to Kubernetes, an open-source system for automating deployment, scaling, and management of containerized applications.

Topic: Cloud Native | ⌚ 2 Days | 📖 Beginner

DESCRIPTION

This course will teach you everything you need to know about container and how to use Kubernetes to manage your application infrastructure. Kubernetes is quickly becoming the de-facto standard to operate containerized applications at scale.

This course covers the essential knowledge needed to understand Containers as well as Kubernetes and includes instruction on how to deploy distributed applications that will scale, be fault-tolerant and simple to manage.

AGENDA

- > Microservices vs. Monolith
- > Architecture and Theory
- > 12-Factor-App
- > Docker Images
- > Containerizing Applications
- > Container Networking
- > Volumes and Persistent Data
- > Secrets
- > Docker Compose
- > Container Orchestrators
- > What is Kubernetes
- > Kubernetes Architecture
- > Working with Pods
- > Kubernetes Services
- > Volumes and Data
- > ConfigMaps and Secrets
- > Ingress

[TAKE A LOOK ONLINE →](#)

The SmartCat tip

„88% of RedHat customers have chosen Kubernetes when it comes to container orchestration.“*



AUDIENCE

- > Software developers that want to understand the core concepts to containerize their application and how to deploy their applications within Kubernetes
- > System Administrators that want to use container technologies and support their development teams as container experts
- > System Administrators that want to use container technologies and support their development teams as container experts

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal

* <https://www.redhat.com/en/resources/kubernetes-adoption-security-market-trends-2021-overview>



kubernetes

OBSERVABILITY

Analyse the current state of your services.

Topic: Cloud Native | ⌚ 2 Days | 📊 Intermediate

DESCRIPTION

The topic of Observability is becoming increasingly important in the world of DevOps, containers and microservices. The more containers / services you operate, the more difficult it becomes to keep track of everything. We will show you how you can always know how your services are doing.

This training deals with the four pillars of observability: monitoring, logging, tracing and visualization. Tools with practical examples are presented for each pillar: Fluentd, Kibana, Prometheus, Grafana and Jäger.

AGENDA

- > What is Observability
- > Logging
- > Monitoring / metrics
- > Traces
- > Alerting / visualization
- > Log aggregation and analytics of containers / microservices
- > Logging using the EFK stack
- > The F in EFK: Fluentd
- > Visualization with Kibana
- > Monitoring of containers / microservices
- > Monitoring using Prometheus
- > Visualization with Grafana
- > Tracing in distributed systems
- > Tracing using Jäger
- > Chaos Engineering in the observability context

[TAKE A LOOK ONLINE →](#)

The PerceptiveParrot tip

„Anyone who does not have an overview of the current state of their IT infrastructure will soon hit a wall!“



AUDIENCE

Operators that want to have insights into their services.

PREREQUISITES

- > Cloud Native Essentials
- > Basic understanding of Linux
- > Basic experience with the Linux terminal

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MEETING**

OUR IaC COURSES

INFRASTRUCTURE AS CODE

Infrastructure as code provides **consistency, efficiency, and agility** by allowing IT infrastructure to be managed and provisioned through code rather than manual processes.

Building and managing with code, brings consistency, efficiency, and agility.



KING OF CLOUD TRAININGS

ABOUT INFRASTRUCTURE AS CODE

With IaC you manage and provisions computing infrastructure using machine-readable definition files instead of manual configuration. Deploy and manage easier and more reliable infrastructure, promoting consistency and scalability.

Ansible this automation tool simplifies your deployment and management of your applications and systems.

It uses a simple syntax and an agentless architecture to automate routine IT tasks, such as configuration management, application deployment, and orchestration.

Chef Infra is an automation tool that helps you manage complex infrastructure by automating configuration, deployment, and maintenance tasks.

CINC is an open-source solution and offers the same value to end-users as the upstream product. Chef Infra cookbooks will work just as well within the Cinc Client.

Terraform enables you to easily create, manage, and update infrastructure as code across multiple cloud providers and on-premises, reducing human error and increasing efficiency.

TOOLS



HashiCorp

Terraform



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ANSIBLE 101

The perfect base to learn how to use configuration management for your services.

Topic: IaC | ⌚ 1 Day | 📖 Beginner

DESCRIPTION

Our Ansible 101 training is the perfect starting point to get in contact with Ansible because you do not need any former knowledge on the topic. You will learn how to automate the configuration, deployment, and management of your server infrastructure.

This course is only available for Linux on the control plane. The concepts learned can also be applied to Windows hosts without restriction.

AGENDA

- > Introduction to Configuration Management
- > Create your first ansible playbook
- > Work with an ansible inventory
- > How to use variables, facts, and imports
- > Ansible Templating
- > Ansible Roles and Ansible Galaxy
- > Outlook: Test your playbooks

[TAKE A LOOK ONLINE →](#)

The FlyingCow quote

“There is only one thing that is more expensive than education in the long run: no education.”
- John F. Kennedy



AUDIENCE

System- and Cloud-Administrators interested in, or responsible for, maintaining a large number of servers or virtual instances

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal



ANSIBLE

ANSIBLE TOWER 101

This training is the follow up to the Ansible 101 training and will deepen your understanding even more.

Topic: IaC | ⌚ 2 Days | ≡ Advanced

DESCRIPTION

This training builds on the Ansible 101 course and deepens your knowledge even more. Topics of this training course is Ansible Tower and its provisioning so that non-Ansible users can handle configuration automation.

This course is only available to Linux clients, but Windows and Linux hosts can be managed.

AGENDA

- > Revisit ansible roles and inventory
- > Ansible Tower - How does it work?
- > Ansible AWX vs. Ansible Tower
- > Ansible Tower - How to automate
- > Ansible Tower - How to distribute configuration automation

[TAKE A LOOK ONLINE →](#)

The Unicorn quote

The beautiful thing about learning is that no one can take it away from you.
- B.B. King



AUDIENCE

System- and Cloud-Administrators interested in, or responsible for, maintaining a large number of servers or virtual instances

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal
- > Ansible 101



ANSIBLE

CHEF ESSENTIALS

The perfect base to learn how to use configuration management for your services.

Topic: IaC | ⌚ 2 Days | 📊 Beginner

DESCRIPTION

Our Chef Essentials training is the perfect starting point to get in contact with Chef Infra because you do not need any former knowledge on the topic.

Using the open source alternative CINC, you will learn how to automate the configuration, deployment, and management of your server infrastructure. In addition to that, we will teach you how to test your configurations so that you are able to automate your whole infrastructure.

AGENDA

- > Introduction
- > Chef resources
- > Cookbooks
- > Chef-Client
- > Testing cookbooks
- > Details about the system
- > Desired state and data
- > Using Chef-Workstation
- > The Chef server
- > Community cookbooks
- > Managing multiple nodes
- > Roles & Environments
- > Search

[TAKE A LOOK ONLINE →](#)

The WiseWhale quote

„Knowing is not enough - you have to apply. It is not enough to want - you have to do it too.“
- Goethe



AUDIENCE

System- and Cloud-Administrators interested in, or responsible for, maintaining a large number of servers or virtual instances

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal



OUR DEVOPS & CI/CD COURSES

CONTINUOUS INTEGRATION & CONTINUOUS DEPLOYMENT

CI/CD enables **faster and more reliable software delivery, better collaboration, and faster error detection** and recovery.

Testing helps ensure software **applications meet your needs, are reliable and secure, and can be deployed quickly and with confidence.**

Automate testing, and deployment, bring speed, quality, and reliability to your process. Like doing everything with 8 arms at the same time.



KING OF CLOUD TRAININGS

ABOUT DEVOPS, TESTING, CONTINUOUS INTEGRATION & CONTINUOUS DEPLOYMENT

Emphasize automated building, testing and deployment. Different tools help you catch bugs early, deliver software faster and more reliably and test your CI/CD.

Git is used in CI/CD to manage source code changes and automate software delivery. It helps to ensure that changes are tested, built, and deployed quickly and reliably, improving software quality and reducing delivery time.

Cucumber automates testing of software features and ensures they meet user requirements. It improves collaborations between developers and non-technical stakeholders.

Programming Language Basics of Go, Ruby and Python will be needed in some of our courses. We'll teach you just enough basics to master our trainings.

Terraform enables you to easily create, manage, and update infrastructure as code across multiple cloud providers and on-premises, reducing human error and increasing efficiency. Therefore Terraform Testing is crucial to keep things running smoothly.

TOOLS



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AGILE TESTING CI/CD BOOTCAMP

Run your tests on autopilot with
CI/CD pipelines.

Topic: Testing/CI/CD | ⌚ 5 Days | 📖 Beginner

DESCRIPTION

We will start this course by introducing Git, the most widely used source control management software. Git will help you to keep track of your code.

GitLab CI, a widely used continuous integration software, will be our focus. GitLab CI provides mechanisms with which we can automate test processes for newly written code, improve code quality and manage the delivery of our code.

Our “Agile Testing” part teaches you how to efficiently test your applications and systems with ease. Nevertheless, most of these tests will still get triggered manually by an employee. Combining agile tests with a CI/CD pipeline can make them run automatically whenever a change occurs.

This course will show how combining agile tests with a CI/CD pipeline can avoid errors and failure by automating the running of these tests.

AGENDA

- > Source Control with Git
- > Git-Workflows
- > Solving Git conflicts
- > What is CI/CD?
- > Building pipelines with GitLabCI
- > Introduction to Python *OR* Ruby
- > Python *OR* Ruby Datatypes and Control Structure
- > Understand Software Testing
- > Development Driven Testing
- > Test Driven Development & Behavior Driven Development
- > Introduction to Behave *OR* Cucumber
- > Develop and Test a REST API with the BDD methodology
- > How to introduce agile testing methods in your company
- > Review agile testing & CI/CD pipelines
- > Combining both to truly automate tests
- > Pitfalls to avoid and best-practices

[TAKE A LOOK ONLINE →](#)

The FixingFlamingo quote

„Education is the passport
to the future, for tomorrow
belongs to those who prepare
for it today.“
- Malcolm X



AUDIENCE

- > System Integrators that want to use BDD and Cucumber to test already existing applications and systems
- > Software Developers that want to use BDD to avoid bugs and make code changes possible without breaking existing functionality

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal

KING OF INDIVIDUAL TRAININGS

**LEARN MORE
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GITLAB ESSENTIALS

Collaborate and ship your code faster with Git and GitLab.

Topic: SCM | ⌚ 2 Days | 📖 Beginner

DESCRIPTION

This course introduces Git with an additional focus on using GitLab. You will learn to track changes with the most popular Source Control Management software git: No more losing code!

We will teach you how to collaborate on a shared code base, how to manage releases and how to establish a workflow that will help you ship code faster with Git and GitLab.

With a duration of two days, we can commit more time to practical examples in this course and allow more room for custom Git/GitLab workflows.

AGENDA

- > Why use a Version Control System?
- > Introduction to Git
- > What is a repository?
- > Modifying, staging and committing changes
- > Working with Branches
- > Remote repositories
- > Using your own GitLab server
- > Working together on a repository
- > Merge Requests and pulling changes
- > Resolving conflicts
- > Complex Git workflows
- > Introduction to DevOps CI/CD
- > GitLab-CI outline
- > What are pipeline jobs?
- > GitLab-Runner-Setup (optional)
- > Building the first Build Pipeline with GitLab-CI
- > Writing jobs as Code (gitlab-ci.yml)
- > CI/CD Hands-On

[TAKE A LOOK ONLINE →](#)

The CleverRacoon quote

“All knowledge consists in certain and clear realisation.”
- René Descartes



AUDIENCE

- > Software Developers that want to have control over their source code
- > Integration Engineers that need to combine several code pieces into one releasable code base
- > Operation Engineers that need an easy way to access releases

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal



GITOPS

Continuous Delivery meets Cloud Native.

Topic: SCM | ⌚ 2 Days | 📖 Beginner

DESCRIPTION

GitOps is a new method to manage Kubernetes clusters and application deployments. This is achieved by placing configuration-as-code into a Git repository as the single source of truth. Everything else is then automatically handled by connected CI/CD systems.

This course will take you through all the important parts of GitOps and help you to choose best tools for setting up your GitOps workflow.

AGENDA

- > Introduction to GitOps
- > A single point of change
- > Collaborative GitOps workflow
- > Integrate with popular CI tools
- > Deploy to Kubernetes via GitOps
- > Security and GitOps

[TAKE A LOOK ONLINE →](#)

KING OF CODE TRAININGS



The GitCat says:

„Nothing works in IT these days without Git. If you want to get to the next level with this course, you should visit our Git course beforehand.,,



AUDIENCE

Anyone that wants to deploy to K8s efficiently.

PREREQUISITES

- > Cloud Native Essentials
- > GitLab Essentials



AGILE TESTING ESSENTIALS

RUBY & CUCUMBER

Hands-on exercises will give you the expertise you need to automate your tests with cucumber and ruby.

Topic: Testing | ⌚ 3 Days | 📖 Beginner

DESCRIPTION

The classic approach is to write code and then write a test for it. This often leads to tests being neglected.

Behavior Driven Development (BDD) tries to solve this problem and helps you to avoid bugs. Tests are being written as actual user-stories rather than just code with BDD. This leads to valuable, well-defined specifications of the system's intended behavior.

Learn to take advantage of BDD by using tools like Cucumber.

AGENDA

- > Introduction to Ruby
- > Ruby Datatypes and Control Structure
- > Understand Software Testing
- > Development Driven Testing
- > Test Driven Development
- > Behavior Driven Development
- > Introduction to Cucumber
- > Develop and Test a REST API with the BDD methodology
- > How to introduce agile testing methods in your company

[TAKE A LOOK ONLINE →](#)

The TestOpus quote

„The best way to predict your future is to create it.“
- Abraham Lincoln



AUDIENCE

- > System- and Cloud-Administrators interested using automated testing tools like Cucumber.
- > Developers that want to manage resources for development and testing environments
- > System-, Cloud-Administrators and Developers that want to reduce time spent on deployment and testing
- > System-, Cloud-Administrators and Developers that want to increase test coverage

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal



Cucumber



Ruby

AGILE TESTING ESSENTIALS

PYTHON & BEHAVE

Hands-on exercises will give you the expertise you need to automate your tests with python and behave.

Topic: Testing | ⌚ 3 Days | 📖 Beginner

DESCRIPTION

The classic approach is to write code and then write a test for it. This often leads to tests being neglected.

Behavior Driven Development (BDD) tries to solve this problem and helps you to avoid bugs. Tests are being written as actual user-stories rather than just code with BDD. This leads to valuable, well-defined specifications of the system's intended behavior.

AGENDA

- > Introduction to Python
- > Python Datatypes and Control Structure
- > Understand Software Testing
- > Development Driven Testing
- > Test Driven Development
- > Behavior Driven Development
- > Introduction to Behave
- > Develop and Test a REST API with the BDD methodology
- > How to introduce agile testing methods in your company

[TAKE A LOOK ONLINE →](#)

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- Abraham Lincoln



AUDIENCE

- > System- and Cloud-Administrators interested using Behave
- > Developers that want to manage resources for development and testing environments
- > System-, Cloud-Administrators and Developers that want to reduce time spent on deployment and testing
- > System-, Cloud-Administrators and Developers that want to increase test coverage

PREREQUISITES

- > Basic understanding of Linux
- > Basic experience with the Linux terminal

BEHAVE



BUI



What seems like a strange combination might just be right for you. Let us know your wishes and we will create your perfect training.

LD THE TRAINING

THAT FITS YOUR NEEDS

A LITTLE BIT OF THIS

What we mean by that: There is no such thing as impossible, only incredibly tailor-made training courses that are precisely customised to your business requirements. We don't do "off the shelf".

AND A LITTLE BIT OF THAT

We cook every course fresh - without artificial flavors or produce. Our trainers recognize the recipes with which every course participant gets out of the comfort zone - and jumps into the superhero zone.

THE PERFECT MIX

The key to personal training success is a balanced mix of encouragement and challenges - the motivating motto: really learn instead of just taking part.



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performance teams.



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