G Cloud 10 – Github Training Courses

Service Definition

Github Training Courses

GitHub, the world's leading place for developers to store and work on their code. With a system for tracking changes, collaborating effectively and providing consistency when building applications, GitHub is an essential tool for anyone working with code. GitHub is a Git repository hosting service, but it adds many of its own features. While Git is a command line tool, GitHub provides a Web-based graphical interface. It also provides access control and several collaboration features, such as a wikis and basic task management tools for every project.

Version control systems keep these revisions straight, and store the modifications in a central repository. This allows developers to easily collaborate, as they can download a new version of the software, make changes, and upload the newest revision. Every developer can see these new changes, download them, and contribute.

GitHub Enterprise combines the power and flexibility of GitHub with the security, administration, and control businesses need. With GitHub Enterprise, you can foster greater transparency and collaboration amongst developers and allow seamless integration of third party tools — all without compromising security practices.

Our consultants objectively analyse your specific requirements & create a strategy for improvement and phased implementation, that meets the agreed goals. Our professional services team provide the architecture design, pre-staging, deployment, integration, training and support requirements for each project we undertake.

Why Github?

GitHub is pretty much the go-to tool for version control & source control, but not everyone gets onboard with it automatically. Due to its vast popularity, GitHub is seen almost as a part of the furniture when it comes to DevOps and application development. With 15 million users and the majority of the world's open source projects stored on GitHub, it is the version control system of choice for most organisations.

Github makes for easier contributions to your top open source projects. Almost all open source projects utilize GitHub for project management, mainly because it's free and includes nifty features like wikis and issue trackers for better documentation and feedback. Users not only enjoy easier project management, but they also get to accept contributions that come in from the community. If you are part of this community and would like to issue a contribution, you just need to fork the project, input your changes, then have it sent back with a pull request via GitHub's web interface.

Where Amazic Helps

We are official Github Training & Consulting Partners.
We join forces with enterprise organisations on their journey towards better collaboration and improved delivery of software, including:

- Aligning stakeholders on where and how git should be used

- Helping understand the implications for enterprise architecture

- Collaboratively developing a governance model around the use of git incorporating development, deployment, and operations

- Understanding the best practices for successful and secure operational deployment

- We also offer authorised Github training using our certified Github trainers.

Migration
Regardless of the scope of your migration, our GitHub services can help you migrate your data in the safest, most efficient way possible.

Admin Mentoring
Learn about GitHub Enterprise and how to set up and administer your instance. You'll also explore common scenarios and learn best practices.

Implementation
Our specialists will help with setup, assess authentication and security needs, and train Enterprise administrators in their day-to-day tasks.

Our Github Training Courses

Github Enablement Workshop (Private Course)

This customised on-site education and enablement workshop delivered by our Github Solution Architects focuses on building your in-house Github centre of excellence in a hands-on interactive learning environment. Normally a one day engagement.

Github customised training & Code Review (Private Course)

A customised engagement delivering a customer-specific architecture and pre-production/PoC implementation of Github as part of your infrastructure within your environment. Official Github training delivers best practices consulting, expert advice, and paired programming, enabling your team to quickly begin using Github for collaboration.

Learn how to rapidly deploy and successfully implement Github across your entire infrastructure. Our Github training is available for your custom implementation, scoped to fit your specific requirements, we ensure your team is ready to confidently use Github. 5 day Engagement.

Github DevOps Workshop (Private Course)

DevOps Modernization, Optimization, and Resiliency Framework. 5 day engagement.

Goals;

Create a value proposition based solutions framework that allows companies to witness what a DevOps transformation looks like by experiencing it first hand.

Amazic shows thought leadership into an opinionated, default process from ideation to delivery.

Day 1 – Git + GitHub Enterprise {Collaboration and Transparency}

Day 2 – Jenkins for Developers {Continuous Improvement}

Day 3 – Jenkins Pipelines, GitHub Statuses, Pre-receive hooks, Webhooks {Governance and Standards Automation}

Day 4 – Intro to Docker, Jenkins Docker Plugin, GitHub Dockerfile {Run Like Production}

Day 5 – Half day, best practices, next steps {Measure Everything}

GitHub for Everyone (Private Course)

This one-part class leads participants through common situations with GitHub, graphical clients, and file versioning. Participants will learn how to use version control without touching the command line and discover solutions in working with a variety of user responsibilities on the platform.

Getting Started with Collaboration

- Introducing GitHub
    - o   Key GitHub Features
    - o   The GitHub Ecosystem
- Exploring a Repository
- Using Issues

Creating Your First Pull Request

- Understanding the GitHub Flow
- Using Branches
- Creating Files on GitHub
- Creating Pull Requests
- Editing Pull Request Files

Using GitHub Locally

- Basic GitHub Desktop Configuration
- Cloning a Repository
- Editing Local Files
- The Two Stage Commit
- Publishing Changes

Managing Projects on GitHub

- Managing issues
- Using milestones
- Using pulse
- Using graphs

GitHub for Developers (Private Course)

A two-day training course, designed for those who are comfortable at the command-line, but new to Git. The class covers common Git concepts, operations, and workflows, as well as effective collaboration with others on GitHub.

Getting Started with Collaboration

- Introducing GitHub
- Key GitHub Features
- The GitHub Ecosystem
- Exploring a Repository
- Using Issues

Understanding the GitHub Flow

- Overview of the GitHub Flow
- Creating and using branches on GitHub

Working Locally

- Cloning a Repository
- Understanding the Distributed nature of Git
- Why we clone
- Basic Command Line Interface (CLI) Configuration
- Understanding Git Configuration Levels

Creating and Committing Local Files

- Creating a local file
- Understanding the Two Stage Commit
- Pushing your changes to GitHub
- Creating a Pull Request
- Using GitHub flavored markdown
- Special keywords for cross-linking issues and pull requests
- Commenting on pull requests and creating comments on specific lines of code
- Editing Pull Request Files
- Merging Pull Requests
- Social conventions for merging
- What happens when we merge?

Common Local Scenarios

- Understanding the nature of the working tree
- Understanding local merge types

Viewing Local Diffs and History

- Viewing local diffs
- Viewing project history

Creating Shortcuts

- Creating aliases
- Setting config to pruning remote tracking branches

The Workflow End-to-End

- Forking a repository
- Cloning the repository
- Creating local branches
- Workflow review for a simple file change
- Cleaning up local and remote tracking branches

Fixing Common Issues with Git

- Handling merge conflicts locally
- Handling merge conflicts from the remote
- Reverting commits
- Creating atomic commits
- Staging hunks of changes
- Moving and renaming files with Git

Creating a Repository Locally

- Creating a Repository on the Command Line

Rewriting History

- How Git stores data (and why you should care)
- Amending your last commit
- Understanding Git reset
- Using the reflog
- Cherry-picking a single commit
- Using rebase and rebase interactive

Workflow Application

- Using what you learnt in your day2day work & Discussing workflows and best practices.

Our Process

We believe the best first route of engagement is to hold a scoping call between our consultants and your team. This fact finding mission is critical to identifying your teams use case & success criteria. We develop a basic design and implementation plan.

If required, we conduct an onsite workshop by performing a current-state assessment to obtain an understanding of your existing environment and business objectives, including but not limited to, current infrastructure, application environment, orchestration components, security, and scalability requirements.

Our consultants perform a Infrastructure, code & Github evaluation with the objective of developing a specific architecture and pre-production/PoC implementation of the Github platform.

Once a Statement of Work is agreed upon, we implement the Github platform components and confirm operation per the design and implementation plan.

Our consultants provide advice and guidance on the future integration of the Github platform with supported 3rd-party production tools.

We provide a demonstration of the Github environment, discuss lessons learned and make recommendations for operational strategy.

We provide a Design Specification document - a reference architecture based on the Github infrastructure design and implementation plan developed with you.

Our professional services team provide the architecture design, pre-staging, deployment, integration, training and support requirements for each project we undertake.

You need official Github professional services to be highly proficient and successful with Github Enterprise. Our service implementation packages are designed to maximise the benefits of your investment, with an approach that provides confidence, competence and efficiency.

Amazic
Market Development

We help the world's most innovative technology brands launch new products & services within Europe

Amazic works with some of the world's largest enterprises as a trusted advisor and ecosystem leader for new transformational technologies – helping advise & map technological evolutions, acting as an extension to the vendor's pre-sales & support teams.

Our holistic approach to helping European enterprises, means that Amazic is set aside from a traditional reseller or consultancy. In most instances we work closely with these enterprises to help with service implementations & procurement of licenses.

We only work with the best of breed, complementary tools which are enterprise ready. Amazic is dedicated to improving Devops & Containerisation adoption within Europe.
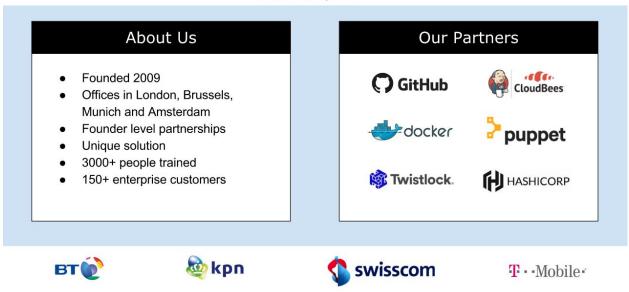
WHAT WE DO?

Products	Services	Training	Amazic Connect
Central purchasing point of contact for multiple vendors - making procurement an easier process. Request pricing on products & services from us, for all software vendors within our portfolio.	POC assistance, evaluation criteria, building a business case. Our consultants objectively analyse your specific requirements & create a strategy for improvement and phased implementation, that meets the agreed goals.	We offer the official vendor approved training courses locally for your team, onsite or public. Our training is designed to maximise the benefits of your investment, with an approach that provides confidence, competence and efficiency.	Are you looking to find the best candidates for your open positions? Our extensive network allows you find highly skilled DevOps technicians for your specific project or company.

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![Amazic Market Development]

About Us	Our Partners
• Founded 2009 • Offices in London, Brussels, Munich and Amsterdam • Founder level partnerships • Unique solution • 3000+ people trained • 150+ enterprise customers	GitHub CloudBees docker puppet Twistlock HASHICORP

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Because of Amazic's work with Puppet and introducing the concept of "Infrastructure as code", collaborating with the GitHub team was a natural step for both parties. Our role with GitHub is to drive awareness and adoption of GitHub Enterprise, an on premise, hardened version of their popular web platform, for use within a global business. We have also been working on some pioneering training and architecture classes, to help spread the message of best practice in application development when it comes to DevOps.