

Training Program

AZ-2006: Automate Azure load testing using GitHub

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DESCRIPTION OF THE TRAINING:

Participants in this training will learn how to implement GitHub Actions and configure Azure Load Testing to automate deployment testing of their applications.

EDUCATIONAL OBJECTIVES:

At the end of this training, participants will be able to:

- Implement GitHub Actions
- Implement GitHub Actions for Azure
- Implement Azure Load Testing

TEACHING METHODS:

- This training will mainly consist of theory and technical workshops that will allow you to be quickly operational.
- Support: Official Microsoft course materials will be provided to participants in electronic format.
- Evaluation: The achievements are evaluated throughout the training by the trainer (prerequisites evaluated before the training, regular questions, practical work, MCQs or other methods).
- Trainer: all led by an experienced consultant-trainer, with field experience, and Microsoft Certified Trainer accredited.
- Satisfaction: at the end of the training, each participant answers an evaluation questionnaire which is then analysed with a view to maintaining and improving the quality of our training.
- Follow-up: one attendance sheet for each half-day of attendance is signed by each participant.
- This training can be provided in an inter-company or intra-company format on request and in face-to-face or distance mode.

TRAINING PROGRAM:

Implement GitHub Actions

- Describe the components of GitHub Actions.
- Implement variables and scripts in a workflow.
- Use contexts and expressions to manage workflow execution.
- Manage secrets in GitHub.

- Create and run a GitHub Actions workflow.

Implement GitHub Actions for Azure

- Explain the benefits of GitHub Actions for Azure.
- Describe the different types of service principals.
- Implement service principals and use them in your GitHub Actions for Azure workflows.
- Use GitHub Actions for Azure to publish a web app to Azure App Service.

Implement Azure Load Testing

- Understand the components of Azure Load Testing.
- Create an Azure Load Test resource.
- Configure service authentication to allow GitHub Actions to connect to your Azure load testing resource.
- Add load test input files to your repository.
- Update the GitHub action definition to call Azure Load Test.

PREREQUISITE:

To participate in this course, you must be proficient in GitHub (pull requests, code merges, and repository management) and know how to create resources in Azure.

A B1 level of English is recommended, find the levels on this link: [Classification of language levels](#).

DURATION: 1 day (7 hours).

AUDIENCE: Developers.

LEVEL: Intermediate.