IBM Bluemix
Garage Academy

Accelerate your organization’s transformation with education on the IBM® Bluemix® Garage Method and its related tools.

IBM Bluemix Garage Developer Bootcamp,
1-2 weeks

Audience: Software developers who are proficient in Java™ or other languages, and who have experience with modern development tools and basic experience building and deploying cloud applications. Experience with Bluemix is not required.

Our experts will facilitate the same boot camp that we use to introduce our developers to the IBM Bluemix Garage Method:

- Learn the basics of IBM Design Thinking
- Explore the core practices of the IBM Bluemix Garage Method
- Learn the basics of Bluemix
- Set up a local development environment
- Learn the project inception process
- Learn to write, refine, and size user stories
- Be introduced to and practice test-driven development (TDD)
- Learn the basics of continuous integration and set up a delivery pipeline
- Develop a slice of a minimal viable product (MVP) by practicing pair programming, TDD, and refactoring
- Conduct a playback and participate in retrospectives
- Learn about transitioning apps to production and setting up monitoring, scaling, and more

Highlights & Scope

- Learn the IBM Bluemix Garage Method
- Learn how to use Bluemix and other IBM tools to build and deploy cloud applications
- The IBM Bluemix Garage Academy, in partnership with IBM Global Training Providers, offers public and private training on Bluemix and the IBM tools that we use at the Bluemix Garage.
IBM Bluemix Garage

Galvanize Bluemix Academy, 8+ weeks

**Audience:** Software developers who are proficient in Java or other classic programming languages and who have experience building enterprise applications. Experience with Bluemix is not required.

Transform your team by immersing it in Bluemix and in DevOps practices. In partnership with Galvanize, we offer a customizable developer immersion program. Your developers will apply what they learn to their own development projects during the program.

- **Week 1:** Get an introduction to cloud-native app development, IBM Design Thinking, extreme programming and DevOps software development practices. Practice with user stories, pair programming, and TDD by using JavaScript, Git, and the Track and Plan feature in IBM Bluemix DevOps Services. Get an overview of Bluemix and its architecture.

- **Week 2:** Focus on front-end development. Get hands-on experience with the Linux Terminal, HTML, CSS, JavaScript, jQuery, Angular, Grunt, Model View Controller, HTTP, and consuming APIs.

- **Week 3:** Focus on back-end development. Get hands-on experience with Node.js, Express.js, application logging, caching, debugging, authentication, data access, and StrongLoop to compose, test, build, and deploy APIs. Set up a delivery pipeline.

- **Week 4:** Build microservices, Docker containers, and practice container orchestration. Begin work on your development projects.

- **Week 5:** Learn Java fundamentals and work with IBM WebSphere® Application Server. Practice data conversion, importing data, and integrating applications with IBM API Management, IBM Secure Gateway, and IBM Connect & Compose. Continue working on your projects.

- **Week 6:** Practice mobile app development for the iOS platform by using Swift. Continue working on your projects.

- **Week 7:** Deploy mobile apps to the Apple Store. Continue working on your projects.

- **Week 8:** Use IBM Push Notifications, IBM Mobile Application Content Manager, IBM Mobile Client Access, IBM Mobile Quality Assurance, and IBM Presence Insights. Continue working on your projects.
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*NEW* IBM Bluemix Enterprise Developer, 2-5 days

**Audience**: Software developers who are proficient in Java or other languages but are new to cloud application development.

If your team is new to Bluemix, consider taking the optional 1 day Introduction to Bluemix. This course covers Bluemix and Cloud Foundry concepts, Bluemix architecture, deployment options, and the Bluemix development environments. The course includes a lab exercise where you use Cloud Foundry runtimes, deploy a simple Bluemix application, and explore the Bluemix Catalog.

The customizable Bluemix Enterprise Developer course teaches enterprise developers how to approach cloud application development: application migration, application integration, and cloud-native development. This course teaches the skills that are required to migrate Java applications to Bluemix. You learn how to integrate applications with the Secure Gateway service, use IBM API Management, and integrate data with the Connect & Compose and DataWorks services. You also learn how to design and develop cloud-native applications by using microservices and APIs.

*NEW* Essentials of IBM UrbanCode, 1 day

**Audience**: Developers and release engineers who are new to IBM UrbanCode Build.

This course covers the fundamentals of IBM UrbanCode Build so that you can use it to control the configuration and management of your build infrastructure. In this 1-day course, you learn how to configure the core continuous integration loop: detect a change, run a build, test, and deliver feedback. You also learn how to add new projects, manage security and other dependencies.

*NEW* Essentials of IBM UrbanCode Release, 1 day

**Audience**: Developers and release engineers who are new to IBM UrbanCode Release.

This course covers the fundamentals of IBM UrbanCode Release so that you can use it to plan, execute, and track a release through the delivery lifecycle. In this 1-day class, you learn how to identify release dependencies, plan and track...
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releases, build an executable deployment plan, and use
templates and automatic rules to take advantage of
continuous delivery techniques.

*NEW* Essentials of IBM UrbanCode Deploy, 1 day

**Audience:** Developers and release engineers who are new to IBM UrbanCode Deploy

This course covers the fundamentals of IBM UrbanCode Deploy so that you can use it to automate application deployments to your environments. In this 1-day class, you learn how to configure IBM UrbanCode Deploy for a deployment of a PetStore application to two different environments. You create resources and versioned components, configure the environments, and deploy the application. You also create teams and roles and learn the fundamentals of security. Lab work is completed by using IBM UrbanCode Deploy in a cloud environment.

*NEW* Cloud Administration and Orchestration Workshop, 2 days

**Audience:** Developers and release engineers who are new to IBM Cloud Manager

This 2-day course teaches developers and release engineers how to configure workload provisioning and virtual image management and monitoring by using IBM Cloud Manager with OpenStack. You learn how to provision workloads to cloud and hybrid environments, manage workloads and virtual images and how to copy images. You will also learn the fundamentals of high availability, backup and restore and disaster recovery.

**For more information**

To learn more about our capabilities and offerings, please speak to your local IBM Garage Services representative or contact: garage@us.ibm.com