Lecture #03

Agenda

* Introduction to Shell Scripting
* Unit, Integration, Functional & Load Testing
* Version Control with Git
* GitOps
* Continuous Integration with Github Actions
* Discuss Assignment #01

Running Amazon Linux VM Locally

* [Run Amazon Linux 2 as a virtual machine on-premises](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/amazon-linux-2-virtual-machine.html)

Git Forking Workflow

* Git Forking Workflow

Reading

Recommended Books

* [Unix Shell Programming by Stephen G. Kochan](https://learning.oreilly.com/library/view/unix-shell-programming/0672324903/)
* [Git Pocket Guide](https://learning.oreilly.com/library/view/git-pocket-guide/9781449327507)

Git

* [Pro Git](https://git-scm.com/book/en/v2)
* [Learn Git](https://www.visualstudio.com/learn-git/)
* Understanding the GitHub Flow
* Forking Workflow

Shell Scripting

* <http://tldp.org/HOWTO/Bash-Prog-Intro-HOWTO.html>
* <https://bash.cyberciti.biz/guide/Main_Page>

GitHub Actions

* [GitHub Actions Documentation](https://help.github.com/en/actions)

Software Testing

* [REST Assured](http://rest-assured.io/)
* [Mockito](http://site.mockito.org/)
* [TestNG](http://testng.org/doc/index.html)
* JUnit
* Application Testing Survey Reveals Legacy Testing Processes No Longer Cut It
* [Web Service Testing using Rest Assured](https://www.youtube.com/playlist?list=PLlsKgYi2Lw70mmEXIbNhx9B9Or-tvYhG2)

Load Testing

* Apache JMeter
* The Rise of Test Impact Analysis
* How To Use Apache JMeter To Perform Load Testing on a Web Server

JMeter Tutorials

* [How To Use Apache JMeter To Perform Load Testing on a Web Server](https://www.digitalocean.com/community/tutorials/how-to-use-apache-jmeter-to-perform-load-testing-on-a-web-server)

Tools & Libraries for Testing

* [Mockito](http://site.mockito.org/)
* [TestNG](http://testng.org/doc/index.html)
* [JUnit](http://junit.org/)
* [Apache JMeter](http://jmeter.apache.org/)
* [REST Assured](http://rest-assured.io/)
* [JMeter plugin for IntelliJ](https://plugins.jetbrains.com/plugin/7013-jmeter-plugin)