	Ebooks	docker	https://www.webcodegeeks.com/wp-content/uploads/2016/12/Docker-Containerization-Cookbook.pdf https://www.tutorialspoint.com/docker/docker_tutorial.pdf
	Docker	install	https://docs.docker.com/engine/installation/linux/docker-ce/ubuntu/#install-using-the-repository
	Compose	install	https://docs.docker.com/compose/install/
	Docker	hello	https://docs.docker.com/compose/gettingstarted/#prerequisites
		image	https://www.katacoda.com/courses/docker/create-nginx-static-web-server https://prakhar.me/docker-curriculum/
		Private registry	https://www.tutorialspoint.com/docker/docker_private_registries.htm
		Public registry	https://hub.docker.com/ https://www.tutorialspoint.com/docker/docker_public_repositories.htm
		Compose	https://blog.hypriot.com/post/docker-compose-nodejs-haproxy/
		networking	https://docs.docker.com/engine/userguide/networking/#default-networks
		swarm	https://docs.docker.com/engine/swarm/stack-deploy/#create-the-example-application https://opsnotice.xyz/build-swarm-cluster/ compose https://blog.couchbase.com/deploy-docker-compose-services-swarm/ issue https://github.com/moby/moby/issues/31561 https://github.com/moby/moby/pull/30781
		swarm-load balance	https://docs.docker.com/docker-cloud/getting-started/deploy-app/9_load-balance_the_service/ https://www.katacoda.com/courses/docker-orchestration/load-balance-service-discovery-swarm-mode

		kubernetes	https://docs.microsoft.com/en-us/azure/container-service/kubernetes/container-service-kubernetes-walkthrough https://docs.microsoft.com/en-us/azure/container-service/container-service-kubernetes-load-balancing https://www.iancollington.com/getting-started-kubernetes-on-aws/
		Security	
		Config	https://dantehranian.wordpress.com/2015/03/25/how-should-i-get-application-configuration-into-my-docker-containers/ docker run -p 8080:8080 -e "servername=localhost" getmub/todo:v1 https://docs.docker.com/compose/environment-variables/#configuring-compose-using-environment-variables Docker Config https://docs.docker.com/engine/swarm/configs/#advanced-example-use-configs-with-a-nginx-service
	Docker Machine	Azure	https://www.digitalocean.com/community/tutorials/how-to-create-a-cluster-of-docker-containers-with-docker-swarm-and-digitalocean-on-ubuntu-16-04 http://www.thegeekstuff.com/2016/02/docker-machine-create-generic/ https://docs.microsoft.com/en-us/azure/virtual-machines/linux/docker-machine
	Springbot	Gradle	https://github.com/Transmode/gradle-docker https://geowarin.github.io/spring-boot-app-in-docker-image.html https://spring.io/guides/gs/spring-boot-docker/ http://blog.monkey.codes/dockerize-a-spring-boot-application/
	Errors	permission	Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock Add your user to the docker group.$ sudo usermod -aG docker $USER Log out and log back in so that your group membership is re-evaluated.
	Tools	putty	https://blogs.msdn.microsoft.com/uk_faculty_connection/2016/09/23/getting-started-with-docker-and-container-services/

	e2e		https://programmaticponderings.com/2015/09/07/building-and-deploying-a-multi-container-java-spring-mongodb-application-using-docker/ http://dev-pages.info/how-to-run-spring-boot-and-mongodb-in-docker-container/ http://blog.monkey.codes/dockerize-a-spring-boot-application/ https://github.com/garystafford/spring-music-docker
	videos		https://www.youtube.com/playlist?list=PLkA60AVN3hh_6cAz8TUGtkYbJSL2bdZ4h

SpringBoot with MongoDb	http://www.dineshonjava.com/2016/08/spring-boot-and-mongodb-in-rest-application.html
ZUUL	https://spring.io/guides/gs/routing-and-filtering/ http://www.baeldung.com/spring-rest-with-zuul-proxy
Eureka	https://spring.io/guides/gs/service-registration-and-discovery/ http://www.baeldung.com/spring-cloud-netflix-eureka https://spring.io/blog/2015/07/14/microservices-with-spring
Config	http://www.baeldung.com/spring-cloud-configuration https://dzone.com/articles/microservices-and-spring-cloud-config-server https://www.iancollington.com/centralised-configuration-using-spring-boot/ If you don't want to use git as a repository, then you need to configure the spring cloud server to have spring.profiles.active=native https://nofluffjuststuff.com/magazine/2016/06/cloud_native_spring_configuring_microservices https://spring.io/guides/gs/centralized-configuration/

Actuator	http://www.baeldung.com/spring-boot-actuators http://www.dineshonjava.com/2016/08/spring-boot-actuator-complete-guide.html
Hysterix	https://spring.io/guides/gs/circuit-breaker/ https://blog.de-swaef.eu/the-netflix-stack-using-spring-boot-part-2-hystrix/ https://exampledriven.wordpress.com/2016/07/05/spring-cloud-hystrix-example/
grpc	https://github.com/grpc/grpc-java/blob/master/README.md https://github.com/caio/grpc-java-gradle-hello-world https://developers.google.com/protocol-buffers/docs/javatutorial

`docker --version`	
`docker-compose --version`	
`docker-machine --version`	
`docker ps`	
`docker run -d -p 80:80 --name webserver nginx`	-d option makes the container run in the background.
`docker stop webserver`	
`docker start webserver`	
`docker rm -f webserver`	
`docker rmi nginx`	
`docker image ls`	
`docker login`	
-d	detached mode. makes the container run in the background.

`docker run -d -p 80:80 getmub/gs-spring-boot-docker`	
docker ps -a	history
`docker inspect --format='{{.Name}} - {{range .NetworkSettings.Networks}}{{.IPAddress}}{{end}}' $(docker ps -aq)`	Show all containers IP addresses:
	If you do not use `-P` (which publishes all exposed ports of the container) or `-p` `host_port:container_port` (which publishes a specific port), the IP packets will not be routable to the container outside of the host.
docker restart a842945e2414	
docker kill a842945e2414	
`docker-machine create -d generic --generic-ip-address 34.201.150.188 --generic-ssh-key ~/.ssh/MyKeyPair.pem --generic-ssh-user ubuntu --generic-ssh-port 22  qa-db`	
docker run --network=<NETWORK>	
` ssh -i ~/.ssh/MyKeyPair.pem ubuntu@34.229.90.232`	
mongo	

• **docker commit:** Creates a image from a container; • **docker kill:** force kill a running container; • **docker restart:** restart a container;	

grpc
```
buildscript {
        ext {
                springBootVersion = '1.5.6.RELEASE'
        }
        repositories {
                mavenCentral()
        }
        dependencies {
                classpath("org.springframework.boot:spring-boot-gradle-plugin:${springBootVersion}")
                classpath 'com.google.protobuf:protobuf-gradle-plugin:0.8.1'
        }
}

apply plugin: 'java'
apply plugin: 'eclipse'
apply plugin: 'org.springframework.boot'
apply plugin: 'com.google.protobuf'

version = '0.0.1-SNAPSHOT'
sourceCompatibility = 1.8

repositories {
        mavenCentral()
}


dependencies {
        compile('org.springframework.boot:spring-boot-starter')
                compile 'io.grpc:grpc-netty:1.4.0'
        compile 'io.grpc:grpc-protobuf:1.4.0'
        compile 'io.grpc:grpc-stub:1.4.0'
        testCompile('org.springframework.boot:spring-boot-starter-test')
}
```