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## Docker deep dive pdf

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Discussing topics and helping others understand concepts increases retention and builds communities. Keep track of and certifications across your organization to staff projects correctly, track progress, and inform learning goals. Create and assign students to teams for easier management, tracking, and reporting. Designate team coordinators to keep teams on track and know who conquers the cloud or needs a push with the team's leaderboard. Use your company ID and password to make managing and scalability a breeze. Integrate results and reporting into existing learning management systems for a 360-degree view of employee skills development. LMS integration is currently available for EdCast and Degreed. Automatically transfer raw usage and competency data to the data store or another repository. Dedicated customer success manager \* Get the most out of ACG for Business with a dedicated cloud learning consultant to support you with introduction, best practices and more. 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This image will be searched locally, and if it is not found, Docker will try to search the Docker repository A container will be created with some random name, which high\_almeida in my example. Is hard to work with random names, but we can change it as follows: \$ docker run --name my-jenkins -p 8080:8080 -p 5000:5000 jenkins Now our container was created with the name my-jenkins Note that, when we run our container, we are led to the inside of the container, but we are able to run in a daemon mode, using the -d parameter as follows: \$ docker run -name my-jenkins -d -p 8080:8080 -p 5000:5000 Jenkins Docker exec After creating our Jenkins container, we have to enter it. We muse use docker exec command as follows: \$ docker exec -i -t my-jenkins /bin/bash Assembly of a volume docker run --name myjenkins -p 8080:8080 -p 8080 5000:5000 -v/var/jenkins\_home:/var/jenkins\_home jenkins Useful Docker commands Used to display all docker containers of its created column \$docker ps -a | weeks ago | awk {print \$1} Displays all containers that match Status \$ docker ps -a | Grip Ended | awk {print \$4} Note that bash {print \$1} is matched with Status Column Removing all out of closed containers \$docker rm \$(docker ps -a | grep Ended | awk {print \$1}) Print all containers ider Remove all containers \$docker rm \$(docker ps -qa) Note that if the container is running, we cannot do so. We received the following message: Conflict, You cannot remove a running container. Removing all containers ignoring its status and ignoring the error mentioned above \$docker rm -force \$(docker ps -qa) Give Docker Control to non-root users Docker must create namespaces Docker needs to create cgroups Docker must bind to /var/run/run/run docker.sock There is a warning about adding users to Docker Group Control which user accounts are members of this group Regular Audit membership in Docker Group We can view all groups by typing Will show us something that \_launchservicesd:\*:239: \_launchservicesd \_iconservices:\*:240: \_distnote:\*:241: \_nsurlsessiond:\*:242: \_nsurlstoraged:\*:243: \_displaypolicyd:\*:244: \_astris \_nsurlstoraged &lt;8>:\*:245: com.apple.access\_disabled:\*:396: com.apple.access\_sessionkey:\*:397: com.apple.access\_screensharing:\*:398: com.apple.access\_ssh:\*:399: . . docker:x:112 To add a user to docker group, we have to write: \$ sudo gpasswd -a gama docker In the previous command, we are sorry that we add a new user gama --a- to Docker Group called docker. Now we can see the user added to Docker Group \$cat/etc/groups... docker: x: 112: gama Major Docker Components To pull any Docker Image we can write: The above command will pull the latest version, but we can configure another, as: We can also pull the image and run the tea container in the same command, as follows: \$ docker run -it fedora / bin / bash Note that docker will pull only the latest version. We are able to pull all image versions using the command: Images are stored locally under the directory / var / lib / docker / . If you are on Linux, it will be on /var/lib/docker/aufs Docker Exceptions Exceptions 1 - Unable to connect to the Internet to retrieve images Exception message: The network was timed while trying to connect to . You may want to check your Internet connection, or if you're behind a proxy. This exception may occur when you try to pull images with docker. For example, we try to extract the busybox image as follows: \$ docker run -it busybox / bin / bash Can not find the image 'busybox:latest' local Pull repository docker.io/library/busybox Note that we do not have busybox image and docker trying to pull it, and you may receive the following error message: The network timed off while trying to connect to . You may want to check your Internet connection or if you are behind a proxy If you are using Docker Machine on Mac, you can try this: \$ \$ restart default And then: \$ eval \$(docker-machine env standard) Starting from scratch, you will learn what containers are, how to start them, stop them, and delete them. You learn how to run applications in them and manage everything on a large scale. You'll also learn the theory of how it all works and plug together behind the scenes, so you not only know the right commands, but you also know what's going on behind the scenes. 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How it is implemented on Linux What is the point of daemon Securing client and daemon communication Chapter summary 6: Photos Docker images - TLDR Docker images - Deep dive Images and containers Images are usually small Pull pictures Image naming Picture registers Image naming and marking Images with multiple tags Filtering the printing of docker image Is Seeking Docker Hub from CLI Photos and Layers Share Image Layers Pulling pictures By digesting a little more about image hashes (digests) Multi-architecture images Delete images Photos - Commands Chapter Summary 7: Containers Docker Containers - TLDR Docker Containers - Deep Dive Containers vs. VMs VM Tax Running Containers Checking that Docker running Start a simple container Container Processes Container Lifecycle Stop Containers Graceful Self-Healing Containers with Restart Policies Web server Example Inspect Containers Clean Up Containers - Commands Chapter Summary 8 : an app That retains an app – the TLDR container with an app – Deep-dive Containers a single container app Move to production with multi-stage builds some best practices Containers an app – Commands Chapter Summary 9: Deploy apps with Docker Compose distribute apps with Com Deposition – TLDR Deploy apps with Compose - Deep Compose background Install composing files with Compose Manage an app with Compose Deploy apps with Compose - Commands Chapter Summary 10: Docker Swarm Docker Swarm - TLDR Docker Swarm - The Deep Dive Swarm primer Build a secure Swarm Cluster Swarm manager high availability (HA) Swarm services Display and inspect services Replicated vs global services Scale a service Rolling updates Troubleshooting Backing up Swarm Docker Swarm - The Commands Chapter Summary 11 : Docker Networking Docker Networking - TLDR Docker Networking - The Deep Dive Theory Single-Hosted Bridge Network Multivert Overlay Network Connect to Existing Network Service Discovery Docker Networking - The Commands Chapter Summary 12 : Docker Overlay Network Docker Overlay Network - TLDR Docker Overlay Network - Deep Dive Build and Test a Docker Overlay Network in Swarm Mode Test Overlay Network The Theory of How It All Works Docker Overlay Networks - Commands Chapter Summary 13: Volumes and Persistent Data Volumes and Persistent Data - TLDR Volumes and Persistent Data - The Deep Dive Containers and Non-Persistent Data Containers and Persistent Data Displays Volumes with Containers and Services Sharing Storage Across Clynge nodes Volumes and Persistent Data - Command Chapter Summary 14 : Deploying apps with Docker Stacks Deploying apps with Docker Stacks – TLDR Deploy apps with Docker Stacks – Deep dive overview of the sample app Looking into the stack file Distribute App Managing App Deploying Apps with Docker Stacks – Command Chapter Summary 15: Security in Docker Security in Docker – The TLDR Security in Docker - Deep Dive Linux Security Technologies Docker Platform Security Technologies Docker Secrets Chapter Summary 16 : What next practice makes perfect Video training Get involved with community Kubernetes Feedback and connect within 45 days of purchase you can get a 100% refund on any Leanpub purchase, in two clicks. 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