

DEV-CDM Docker

June-29-17 2:22 PM

Installing Docker

yum

<pre>[administrator@dev-cdm-spark0* ~]\$sudo yum install docker Installed: docker.x86_64 2:1.12.6-28.git1398f24.el7.centos Dependency Installed: audit-libs-python.x86_64 0:2.6.5-3.el7_3.1 checkpolicy.x86_64 0:2.5-4.el7 container-selinux.noarch 2:2.12-2.git7096ce.el7 docker-client.x86_64 2:1.12.6-28.git1398f24.el7.centos docker-common.x86_64 2:1.12.6-28.git1398f24.el7.centos libcgroupp.x86_64 0:0.41-11.el7 libseccomp.x86_64 0:2.3.1-2.el7 libsemanage-python.x86_64 0:2.5-5.1.el7_3 oci-register-machine.x86_64 1:0-3.11.gitdd0daef.el7 oci-systemd-hook.x86_64 1:0.1.7-2.git2788078.el7 policycoreutils-python.x86_64 0:2.5-11.el7_3 python-IPy.noarch 0:0.75-6.el7 setools-libs.x86_64 0:3.3.8-1.1.el7 skopeo-containers.x86_64 1:0.1.19-1.el7 Complete!</pre>	Install it
<pre>[administrator@dev-cdm-spark0* ~]\$ sudo systemctl start docker [administrator@dev-cdm-spark0* ~]\$ sudo systemctl status docker ● docker.service - Docker Application Container Engine Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled) Active: active (running) since Thu 2017-06-29 10:27:00 EDT; 11s ago Docs: http://docs.docker.com Main PID: 11894 (dockerd-current) CGroup: /system.slice/docker.service └─11894 /usr/bin/dockerd-current --add-runtime docker-runc=/usr/libexec/docker/docker... └─11902 /usr/bin/docker-containerd-current -l unix:///var/run/docker/libcontainerd/do... Jun 29 10:26:59 dev-cdm-spark01.nexjqa.local dockerd-current[11894]: time="2017-06-29T10:26:59.8... Jun 29 10:26:59 dev-cdm-spark01.nexjqa.local dockerd-current[11894]: time="2017-06-29T10:26:59.8... Jun 29 10:26:59 dev-cdm-spark01.nexjqa.local dockerd-current[11894]: time="2017-06-29T10:26:59.8... Jun 29 10:26:59 dev-cdm-spark01.nexjqa.local dockerd-current[11894]: time="2017-06-29T10:26:59.8... Jun 29 10:26:59 dev-cdm-spark01.nexjqa.local dockerd-current[11894]: time="2017-06-29T10:26:59.9... Jun 29 10:27:00 dev-cdm-spark01.nexjqa.local dockerd-current[11894]: time="2017-06-29T10:27:00.0... Jun 29 10:27:00 dev-cdm-spark01.nexjqa.local dockerd-current[11894]: time="2017-06-29T10:27:00.0... Jun 29 10:27:00 dev-cdm-spark01.nexjqa.local dockerd-current[11894]: time="2017-06-29T10:27:00.0... Jun 29 10:27:00 dev-cdm-spark01.nexjqa.local dockerd-current[11894]: time="2017-06-29T10:27:00.0... Jun 29 10:27:00 dev-cdm-spark01.nexjqa.local dockerd-current[11894]: time="2017-06-29T10:27:00.0... Jun 29 10:27:00 dev-cdm-spark01.nexjqa.local systemd[1]: Started Docker Application Container ...e. Hint: Some lines were ellipsized, use -l to show in full. [administrator@dev-cdm-spark0* ~]\$ sudo systemctl enable docker Created symlink from /etc/systemd/system/multi-user.target.wants/docker.service to /usr/lib/systemd/system/docker.service.</pre>	Activate it
<pre>[administrator@dev-cdm-spark0* ~]\$ sudo docker run hello-world Unable to find image 'hello-world:latest' locally Trying to pull repository docker.io/library/hello-world ... latest: Pulling from docker.io/library/hello-world b04784fba78d: Pull complete Digest: sha256:f3b3b28a45160805bb16542c9531888519430e9e6d6ffc09d72261b0d26ff74f Hello from Docker! This message shows that your installation appears to be working correctly. To generate this message, Docker took the following steps: 1. The Docker client contacted the Docker daemon.</pre>	Verify it

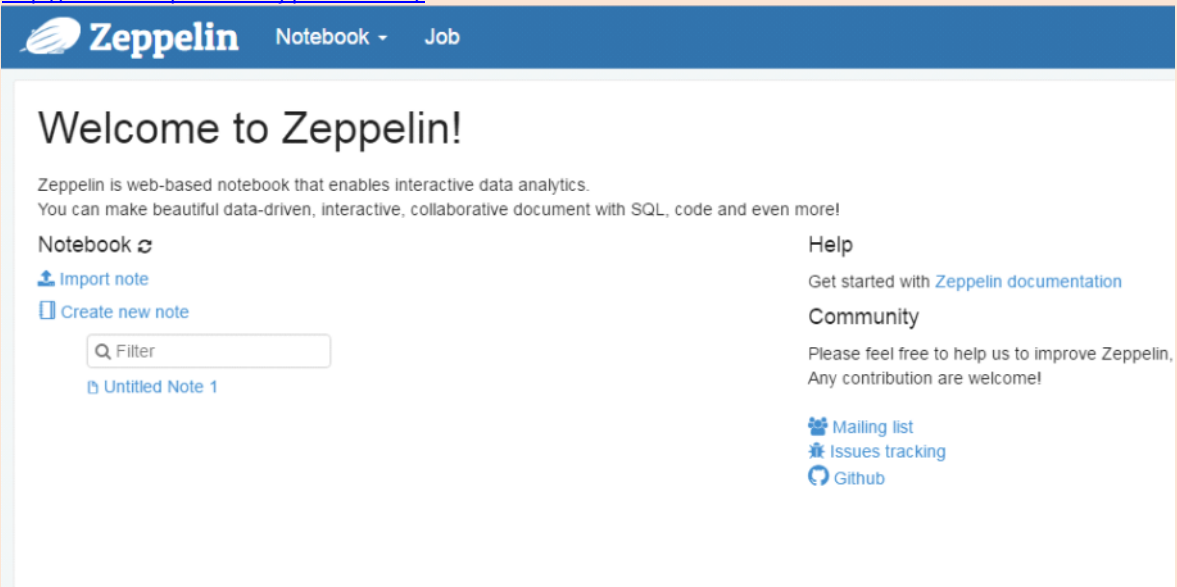
<p>2. The Docker daemon pulled the "hello-world" image from the Docker Hub.</p> <p>3. The Docker daemon created a new container from that image which runs the executable that produces the output you are currently reading.</p> <p>4. The Docker daemon streamed that output to the Docker client, which sent it to your terminal.</p> <p>To try something more ambitious, you can run an Ubuntu container with:</p> <pre>\$ docker run -it ubuntu bash</pre> <p>Share images, automate workflows, and more with a free Docker ID: https://cloud.docker.com/</p> <p>For more examples and ideas, visit: https://docs.docker.com/engine/userguide/</p>	
<pre>[administrator@dev-cdm-spark0* ~]\$ sudo docker version</pre> <p>Client:</p> <pre>Version: 1.12.6 API version: 1.24 Package version: docker-1.12.6-28.git1398f24.el7.centos.x86_64 Go version: go1.7.4 Git commit: 1398f24/1.12.6 Built: Fri May 26 17:28:18 2017 OS/Arch: linux/amd64</pre> <p>Server:</p> <pre>Version: 1.12.6 API version: 1.24 Package version: docker-1.12.6-28.git1398f24.el7.centos.x86_64 Go version: go1.7.4 Git commit: 1398f24/1.12.6 Built: Fri May 26 17:28:18 2017 OS/Arch: linux/amd64</pre>	Version

Zeppelin@DOCKER on Master spark01 - NOT USED

Visit docker hub for latest tag - note "latest" is not supplied!

<https://hub.docker.com/r/apache/zeppelin/>

<pre>[administrator@dev-cdm-spark01 ~]\$ sudo docker search apache/zeppelin</pre> <table><thead><tr><th>INDEX</th><th>NAME</th><th>DESCRIPTION</th><th>STARS</th><th>OFFICIAL</th><th>AUTOMATED</th></tr></thead><tbody><tr><td>docker.io</td><td>docker.io/apache/zeppelin</td><td>Apache Zeppelin</td><td>13</td><td></td><td>[OK]</td></tr></tbody></table>	INDEX	NAME	DESCRIPTION	STARS	OFFICIAL	AUTOMATED	docker.io	docker.io/apache/zeppelin	Apache Zeppelin	13		[OK]	Search
INDEX	NAME	DESCRIPTION	STARS	OFFICIAL	AUTOMATED								
docker.io	docker.io/apache/zeppelin	Apache Zeppelin	13		[OK]								
<pre>[administrator@dev-cdm-spark01 ~]\$ sudo docker pull apache/zeppelin:0.7.2</pre> <p>Trying to pull repository docker.io/apache/zeppelin ...</p> <p>0.7.2: Pulling from docker.io/apache/zeppelin</p> <p>bd97b43c27e3: Pull complete</p> <p>6960dc1aba18: Pull complete</p> <p>2b61829b0db5: Pull complete</p> <p>1f88dc826b14: Pull complete</p> <p>73b3859b1e43: Pull complete</p> <p>1c2425a2d1b4: Pull complete</p> <p>f520ef83d944: Pull complete</p> <p>4489852d75cc: Pull complete</p> <p>b75576677c31: Pull complete</p> <p>733c92a54a01: Pull complete</p> <p>ebec2ea7c4a5: Pull complete</p> <p>a7d2e021fd9b: Pull complete</p> <p>d31475ff3175: Pull complete</p> <p>Digest: sha256:559f67404d6c2d929922fc426dff6357e411e03138dd315d5bc47b2a4f60850c</p>	Pull it												
<pre>[administrator@dev-cdm-spark01 ~]\$ cd \$HOME && pwd</pre> <p>/home/administrator</p> <pre>[administrator@dev-cdm-spark01 ~]\$ mkdir zeppelin && mkdir zeppelin/logs && mkdir zeppelin/notebooks</pre> <pre>[administrator@dev-cdm-spark01 ~]\$ ls -al \$HOME/zeppelin/</pre> <p>total 16</p> <p>drwxrwxr-x 4 administrator administrator 4096 Jun 29 11:11 .</p> <p>drwx----- 6 administrator administrator 4096 Jun 29 11:08 ..</p> <p>drwxrwxr-x 2 administrator administrator 4096 Jun 29 11:11 logs</p> <p>drwxrwxr-x 2 administrator administrator 4096 Jun 29 11:11 notebooks</p>	Setup folder structure												

<pre>[administrator@dev-cdm-spark01 ~]\$ sudo docker run -d -p 9080:8080 --rm -v \$HOME/zeppelin/logs:/logs -v \$HOME/zeppelin/notebooks:/notebook -e ZEPPELIN_LOG_DIR='/logs' -e ZEPPELIN_NOTEBOOK_DIR='/notebook' --name zeppelin apache/zeppelin:0.7.2</pre>	Run it
<pre>[administrator@dev-cdm-spark01 ~]\$ sudo docker ps</pre>	Check PS
<p>http://dev-cdm-spark01.nexjqa.local:9080/</p> 	Validate Install

NiFi@DOCKER on Master spark01,02

Visit docker hub for latest tag - note "latest" is not supplied!

<https://hub.docker.com/r/apache/nifi/~dockerfile/>

[administrator@dev-cdm-spark0* ~]\$ sudo docker search apache/nifi	Search												
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INDEX	NAME	DESCRIPTION	STARS	OFFICIAL	AUTOMATED								
docker.io	docker.io/aldrin/apache-nifi	Provides a running instance of Apache NiFi...	10										
[administrator@dev-cdm-spark0* ~]\$ sudo docker pull apache/nifi:1.3.0 Trying to pull repository docker.io/apache/nifi ... 1.3.0: Pulling from docker.io/apache/nifi 10a267c67f42: Pull complete fb5937da9414: Pull complete 9021b2326a1e: Pull complete 8c6c40e9ec4f: Pull complete 7a63e1725461: Pull complete 79e8ed83f43a: Pull complete 161cbb85a481: Pull complete a479609da9c8: Pull complete e32f81724ea4: Pull complete 2eabe60aeb37: Pull complete 8b0ce471720c: Pull complete 74c03bcdbbdbd: Pull complete f5f88f68e088: Pull complete 5ed4b763cde4: Pull complete Digest: sha256:272459913776aa6c13da50487fdda3ac32323ab85f7955688724ef6d787f8db9	Pull it												
[administrator@dev-cdm-spark0* ~]\$ cd \$HOME && pwd /home/administrator [administrator@dev-cdm-spark01 ~]\$ vi dockerRun-NIFI.sh && chmod a+x dockerRun-NIFI.sh # script to run NIFI docker image /usr/bin/sudo /usr/bin/docker run -d -p 18080:8080 apache/nifi:1.3.0 [administrator@dev-cdm-spark0* ~]\$ ls -al \$HOME/dockerRun* -rwxrwxr-x 1 administrator administrator 104 Jun 30 13:44 dockerRun-NIFI.sh	Setup folder struccture												
[administrator@dev-cdm-spark0* ~]\$ \$HOME/dockerRun-NIFI.sh	Run it												
[administrator@dev-cdm-spark0* ~]\$ sudo docker ps	Check PS												
http://dev-cdm-spark01.nexjqa.local:18080/nifi	Validate Install												

<http://dev-cdm-spark02.nexjqa.local:18080/nifi/>

