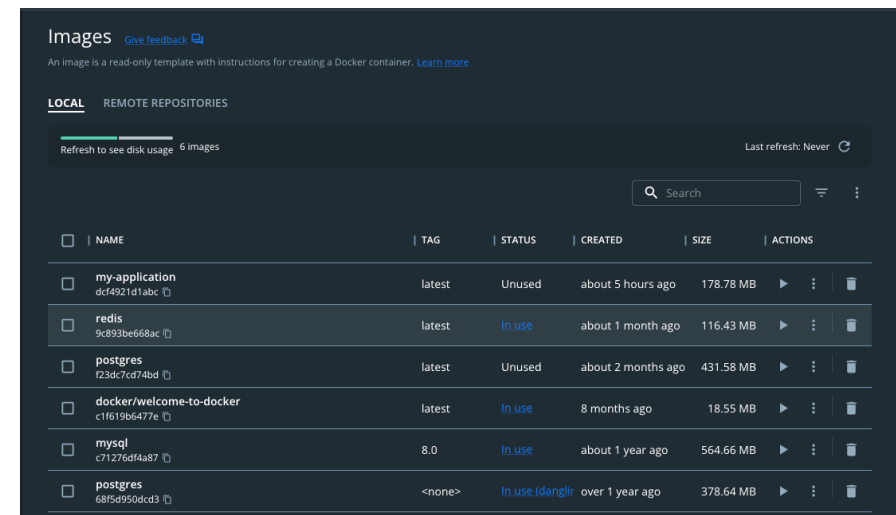


# docker

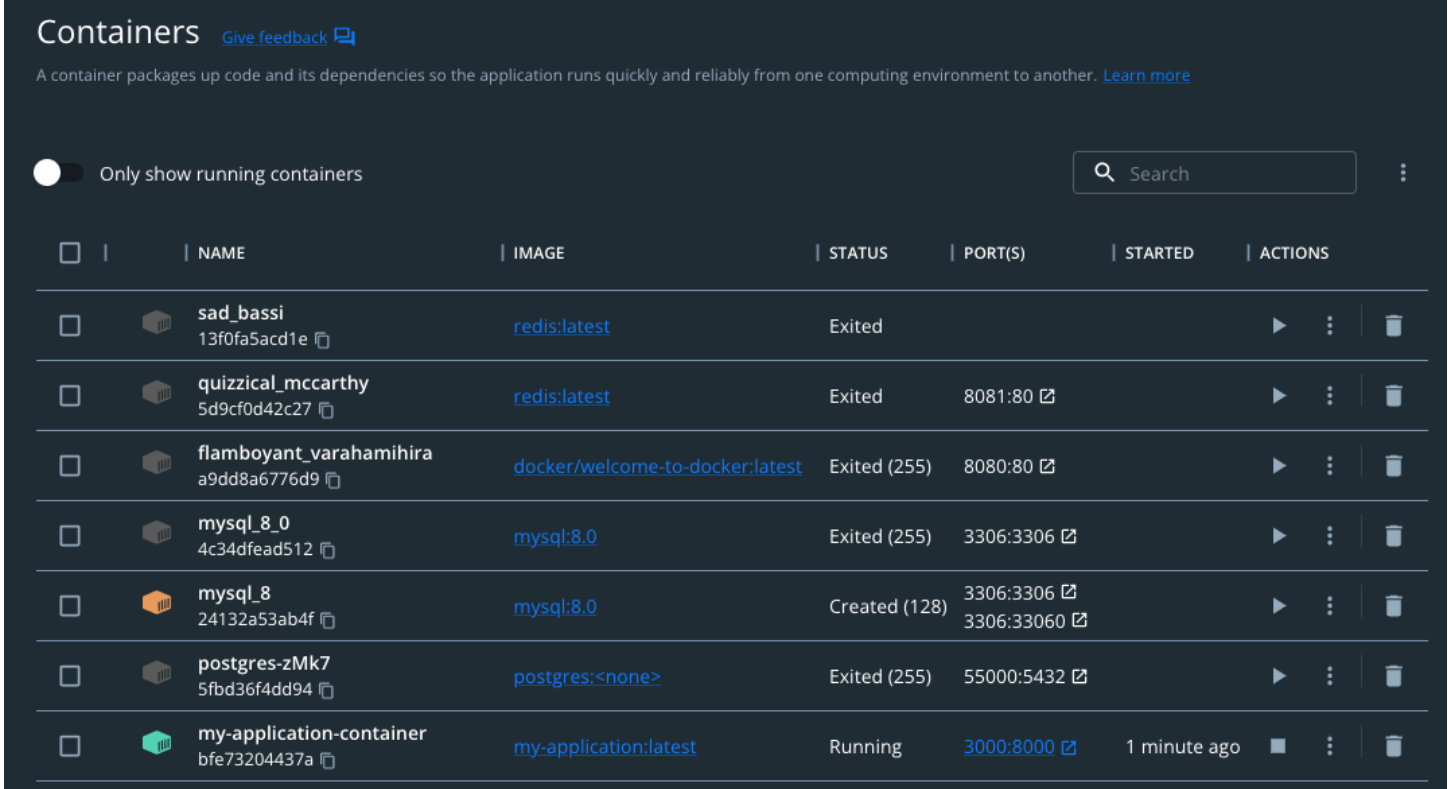
## PART 2 - Docker File

# Build Docker File

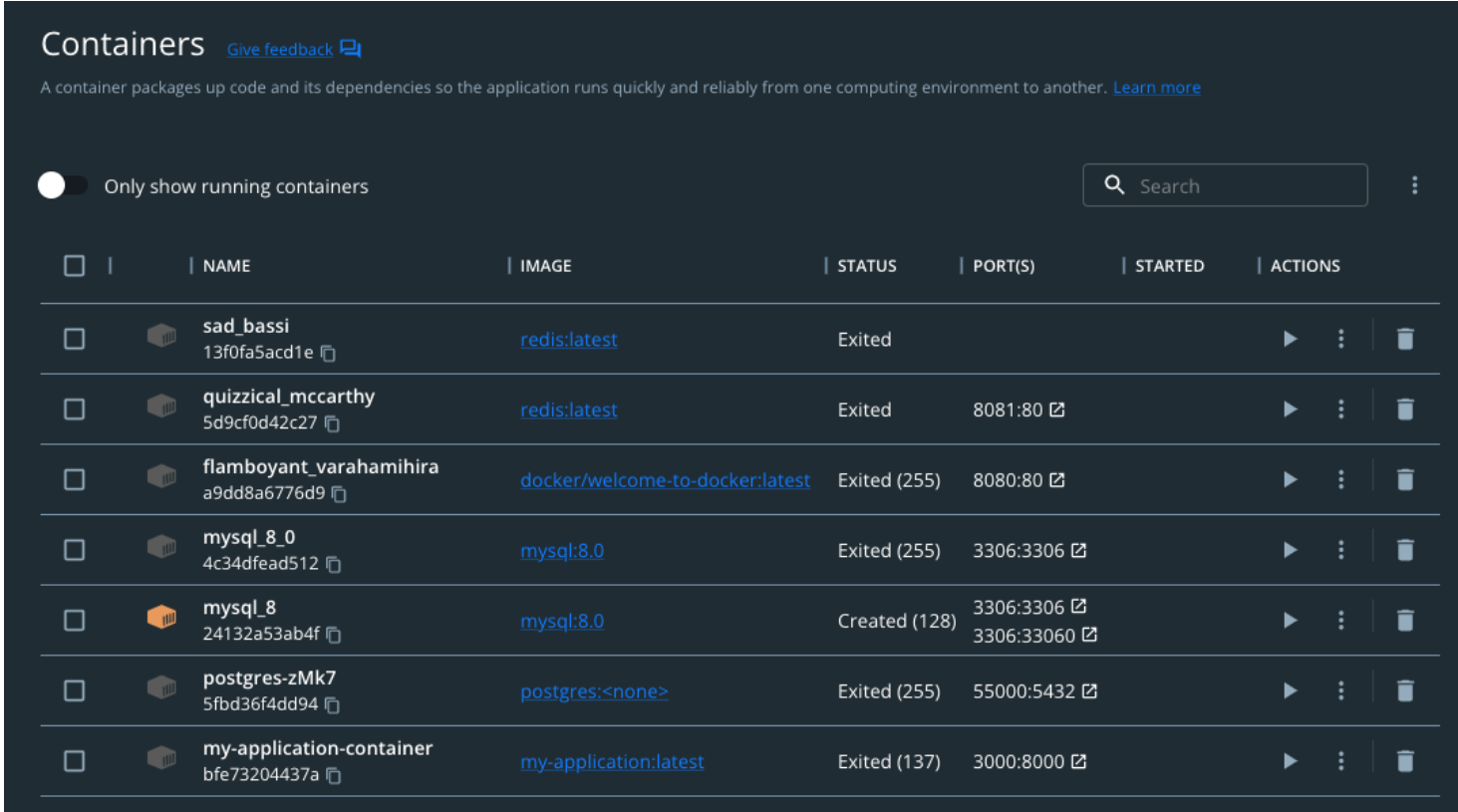
No	Perintah	Output
1	<p><b>docker build -t my-application:latest .</b></p> <p>Instruksi untuk membangun sebuah image Docker dari Dockerfile yang ada di direktori saat ini (diwakili oleh .). Berikut adalah penjelasan dari setiap bagian perintah tersebut:</p> <p>docker build: Perintah ini digunakan untuk membangun image Docker dari Dockerfile.</p> <p>-t my-application:latest: Flag -t (atau --tag) digunakan untuk memberi nama dan tag pada image yang dibangun. Dalam contoh ini, image diberi nama my-application dan ditag dengan latest. Tag latest sering digunakan untuk menandakan versi terbaru dari image tersebut.</p> <p>∴ Titik (.) di akhir perintah menunjukkan bahwa Docker harus mencari Dockerfile di direktori saat ini.</p>	<pre>wartadi@Wartadis-MacBook-Pro belajar-dockerfile % docker build -t my-application:latest . [+] Building 4.6s (9/9) FINISHED =&gt; [internal] load build definition from Dockerfile                                0.1s =&gt; =&gt; transferring dockerfile: 37B  0.1s =&gt; [internal] load .dockerignore  0.0s =&gt; =&gt; transferring context: 34B  0.0s =&gt; [internal] load metadata for docker.io/library/python:3.11.4-slim-bookworm  4.1s =&gt; [1/4] FROM docker.io/library/python:3.11.4-slim-bookworm@sha256:17d62d681d9ecef 0.0s =&gt; [internal] load build context  0.1s =&gt; =&gt; transferring context: 5.03kB   0.0s =&gt; CACHED [2/4] COPY requirements.txt requirements.txt                        0.0s =&gt; CACHED [3/4] RUN pip install -r requirements.txt                          0.0s =&gt; CACHED [4/4] COPY . .  0.0s =&gt; exporting to image  0.0s =&gt; =&gt; exporting layers   0.0s =&gt; =&gt; writing image sha256:dcf4921d1abc823687d83c6a7145749374a9ca3250b205bb4ac8d9 0.0s =&gt; =&gt; naming to docker.io/library/my-application:latest                      0.0s  Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them</pre> 

# CREATE & RUN CONTAINER

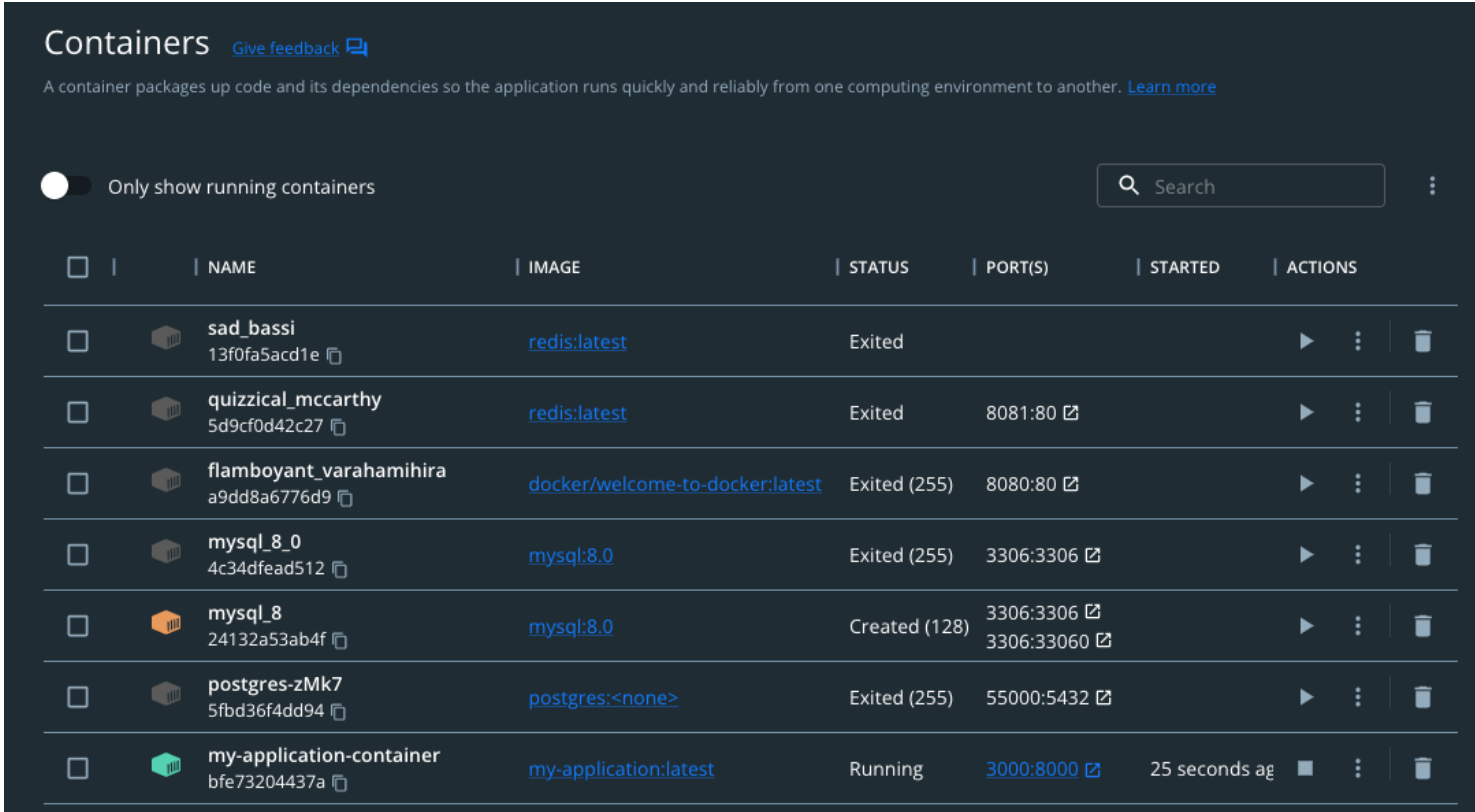


No	Perintah	Output
2	<pre>docker run --name my-application-container -p 3000:8000 -e USER_NAME=wartadi -d my-application:latest</pre> <p>Perintah diatas adalah untuk membuat dan menjalankan Docker Container dimana -p 3000:8000: -p digunakan untuk memetakan port pada host dengan port di dalam container.</p> <p>e USER_NAME=budi: Flag -e digunakan untuk menetapkan variabel lingkungan (environment variable) di dalam container. Dalam contoh ini, variabel lingkungan USER_NAME diatur ke nilai adalah wartadi</p> <p>d: Flag -d (atau --detach) digunakan untuk menjalankan container dalam mode detached, yang berarti container akan berjalan di latar belakang dan Anda akan mendapatkan kontrol terminal kembali setelah container dimulai.</p>	<pre>wartadi@Wartadis-MacBook-Pro belajar-dockerfile % docker run --name my-application-container -p 3000:8000 -e USER_NAME=wartadi -d my-application:latest bfe73204437a69b9e38f8b5b4be627cec695e6c6cee81987dd2c1ad36035cedd</pre> 

# STOP CONTAINER

No	Perintah	Output
3	<p><b>docker stop my-application-container</b></p> <p>Perintah ini digunakan untuk memberhentikan Docker Container dengan nama my-application-container</p> <p>Biasanya didalam aplikasi Docker Desktop dimana container yang tidak berjalan/diberhentikan ditunjukkan bentuk container/balok berwarna dark grey dan status : Exited</p>	<pre>wartadi@Wartadis-MacBook-Pro belajar-dockerfile % docker stop my-application-container</pre> 

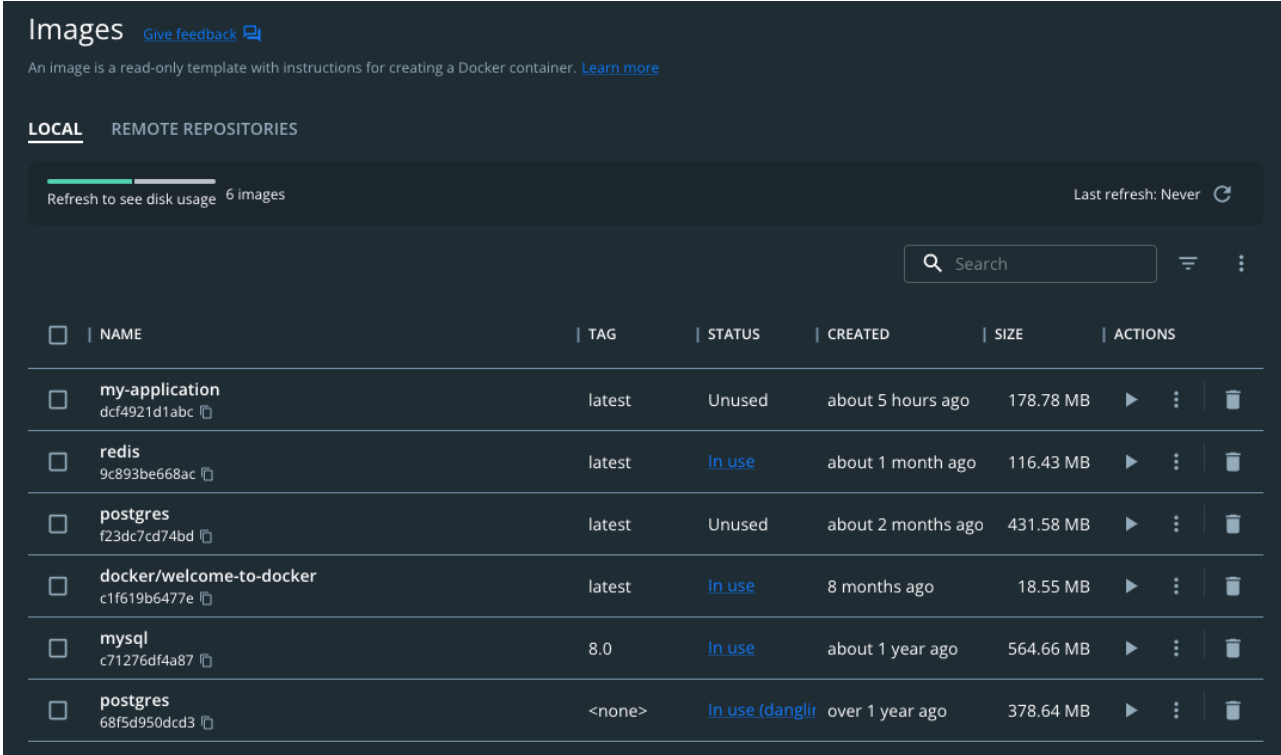
# START CONTAINER

No	Perintah	Output
4	<p><b>docker start my-application-container</b></p> <p>Perintah diatas digunakan untuk menjalankan menjalankan suatu Docker Container. Dalam hal ini digunakan untuk menjalankan Docker Container dengan nama ny-application-container.</p> <p>Biasanya didalam aplikasi Docker Desktop dimana container yang sedang berjalan ditunjukkan bentuk container/balok berwarna hijau dan status:Running</p>	<pre>wartadi@Wartadis-MacBook-Pro belajar-dockerfile % docker start my-application-container</pre> 



















# REMOVE CONTAINER

No	Perintah	Output																																																	
5	<p><b>docker rm my-application-container</b></p> <p>Perintah tersebut digunakan untuk menghapus Container yang dengan nama <b>my-application-container</b>.</p> <p>Bisa dilihat di dalam output pada list container sudah tidak ada container dengan nama <b>my-application-container</b></p>	<div><div><div>wartadi@Wartadis-MacBook-Pro belajar-dockerfile % docker rm my-application-container my-application-container</div></div><div><div>Containers <a href="#">Give feedback</a></div><div>A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. <a href="#">Learn more</a></div><div><div><div></div><div>Only show running containers</div></div><div><div>Search</div></div><div></div></div><table><thead><tr><th></th><th>NAME</th><th>IMAGE</th><th>STATUS</th><th>PORT(S)</th><th>STARTED</th><th>ACTIONS</th></tr></thead><tbody><tr><td><div><div></div><div></div></div></td><td><div>sad_bassi</div><div>13f0fa5acd1e</div></td><td><a href="#">redis:latest</a></td><td>Exited</td><td></td><td></td><td><div><div></div><div></div><div></div></div></td></tr><tr><td><div><div></div><div></div></div></td><td><div>quizzical_mccarthy</div><div>5d9cf0d42c27</div></td><td><a href="#">redis:latest</a></td><td>Exited</td><td>8081:80</td><td></td><td><div><div></div><div></div><div></div></div></td></tr><tr><td><div><div></div><div></div></div></td><td><div>flamboyant_varahamihira</div><div>a9dd8a6776d9</div></td><td><a href="#">docker/welcome-to-docker:latest</a></td><td>Exited (255)</td><td>8080:80</td><td></td><td><div><div></div><div></div><div></div></div></td></tr><tr><td><div><div></div><div></div></div></td><td><div>mysql_8_0</div><div>4c34dfead512</div></td><td><a href="#">mysql:8.0</a></td><td>Exited (255)</td><td>3306:3306</td><td></td><td><div><div></div><div></div><div></div></div></td></tr><tr><td><div><div></div><div></div></div></td><td><div>mysql_8</div><div>24132a53ab4f</div></td><td><a href="#">mysql:8.0</a></td><td>Created (128)</td><td>3306:3306 3306:33060</td><td></td><td><div><div></div><div></div><div></div></div></td></tr><tr><td><div><div></div><div></div></div></td><td><div>postgres-zMk7</div><div>5fbd36f4dd94</div></td><td><a href="#">postgres:&lt;none&gt;</a></td><td>Exited (255)</td><td>55000:5432</td><td></td><td><div><div></div><div></div><div></div></div></td></tr></tbody></table></div></div>		NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS	<div><div></div><div></div></div>	<div>sad_bassi</div> <div>13f0fa5acd1e</div>	<a href="#">redis:latest</a>	Exited			<div><div></div><div></div><div></div></div>	<div><div></div><div></div></div>	<div>quizzical_mccarthy</div> <div>5d9cf0d42c27</div>	<a href="#">redis:latest</a>	Exited	8081:80		<div><div></div><div></div><div></div></div>	<div><div></div><div></div></div>	<div>flamboyant_varahamihira</div> <div>a9dd8a6776d9</div>	<a href="#">docker/welcome-to-docker:latest</a>	Exited (255)	8080:80		<div><div></div><div></div><div></div></div>	<div><div></div><div></div></div>	<div>mysql_8_0</div> <div>4c34dfead512</div>	<a href="#">mysql:8.0</a>	Exited (255)	3306:3306		<div><div></div><div></div><div></div></div>	<div><div></div><div></div></div>	<div>mysql_8</div> <div>24132a53ab4f</div>	<a href="#">mysql:8.0</a>	Created (128)	3306:3306 3306:33060		<div><div></div><div></div><div></div></div>	<div><div></div><div></div></div>	<div>postgres-zMk7</div> <div>5fbd36f4dd94</div>	<a href="#">postgres:&lt;none&gt;</a>	Exited (255)	55000:5432		<div><div></div><div></div><div></div></div>
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# LIST IMAGE

No	Perintah	Output
6	<b>docker images</b>  Digunakan untuk menampilkan daftar semua Docker image yang tersedia di sistem local / komputer. Perintah ini memberikan informasi mengenai setiap image yang telah diunduh atau dibangun di mesin lokal.	<pre>• wartadi@Wartadis-MacBook-Pro belajar-dockerfile % docker images REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE my-application       latest             dcf4921d1abc       5 hours ago        179MB redis               latest             9c893be668ac       6 weeks ago        116MB postgres            latest             f23dc7cd74bd       7 weeks ago        432MB docker/welcome-to-docker latest             c1f619b6477e       8 months ago       18.6MB mysql               8.0                c71276df4a87       13 months ago      565MB postgres            &lt;none&gt;             68f5d950dcd3       19 months ago      379MB</pre> 

# LIST CONTAINER

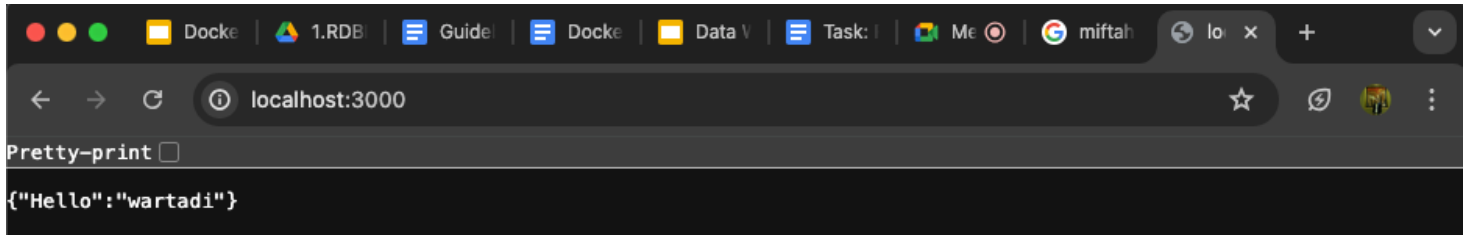
No	Perintah	Output																																																																																																									
7.1	<div><b>docker ps</b></div> <div><p>digunakan untuk menampilkan daftar Docker container yang sedang berjalan di sistem local/komputer. Perintah ini memberikan informasi rinci tentang setiap container yang aktif.</p><p>Bisa dilihat pada Docker container tidak ada yang sedang running/berjalan begitu juga dengan output yang dihasilkan pada terminal tidak ada container yang sedang berjalan</p></div>	<div><pre>wartadi@Wartadis-MacBook-Pro belajar-dockerfile % docker ps</pre><table><tr><th>CONTAINER ID</th><th>IMAGE</th><th>COMMAND</th><th>CREATED</th><th>STATUS</th><th>PORTS</th><th>NAMES</th></tr><tr><td>13f0fa5acd1e</td><td>redis:latest</td><td></td><td>10 minutes ago</td><td>Exited</td><td></td><td>sad_bassi</td></tr><tr><td>5d9cf0d42c27</td><td>redis:latest</td><td></td><td>10 minutes ago</td><td>Exited</td><td>8081:80</td><td>quizzical_mccarthy</td></tr><tr><td>a9dd8a6776d9</td><td>docker/welcome-to-docker:latest</td><td></td><td>10 minutes ago</td><td>Exited (255)</td><td>8080:80</td><td>flamboyant_varahamihira</td></tr><tr><td>4c34dfead512</td><td>mysql:8.0</td><td></td><td>10 minutes ago</td><td>Exited 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# LIST CONTAINER

No	Perintah	Output																																																																																									
7.2	<div><b>docker ps -a</b></div> <div>Perintah digunakan untuk menampilkan semua container Docker di sistem lokal Anda, baik yang sedang berjalan maupun yang sudah berhenti</div>	<div><pre>wartadi@Wartadis-MacBook-Pro belajar-dockerfile % docker ps -a</pre><table><thead><tr><th>CONTAINER ID</th><th>IMAGE</th><th>COMMAND</th><th>CREATED</th><th>STATUS</th></tr></thead><tbody><tr><td>13f0fa5acd1e</td><td>redis</td><td>"docker-entrypoint.s..."</td><td>21 hours ago</td><td>Exited (0) 20 h</td></tr><tr><td>5d9cf0d42c27</td><td>redis</td><td>sad_bassi</td><td>29 hours ago</td><td>Exited (0) 21 h</td></tr><tr><td>a9dd8a6776d9</td><td>docker/welcome-to-docker</td><td>quizzical_mccarthy</td><td>29 hours ago</td><td>Exited (255) 22</td></tr><tr><td>4c34dfead512</td><td>mysql:8.0</td><td>flamboyant_varahamihira</td><td>12 months ago</td><td>Exited (255) 10</td></tr><tr><td>24132a53ab4f</td><td>mysql:8.0</td><td>"docker-entrypoint.s..."</td><td>12 months ago</td><td>Created</td></tr><tr><td>5fbd36f4dd94</td><td>68f5d950dcd3</td><td>mysql_8</td><td>19 months ago</td><td>Exited (255) 10</td></tr><tr><td></td><td>0.0.0.0:55000-&gt;5432/tcp</td><td>postgres-zMk7</td><td></td><td></td></tr></tbody></table></div> <div><div>Containers <a href="#">Give feedback</a></div><div>A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. <a href="#">Learn more</a></div><div><input type="checkbox"/> Only show running containers <input type="text" value="Search"/></div><table><thead><tr><th></th><th>NAME</th><th>IMAGE</th><th>STATUS</th><th>PORT(S)</th><th>STARTED</th><th>ACTIONS</th></tr></thead><tbody><tr><td><input type="checkbox"/></td><td><div>sad_bassi</div><div>13f0fa5acd1e</div></td><td><a href="#">redis:latest</a></td><td>Exited</td><td></td><td></td><td> </td></tr><tr><td><input type="checkbox"/></td><td><div>quizzical_mccarthy</div><div>5d9cf0d42c27</div></td><td><a href="#">redis:latest</a></td><td>Exited</td><td>8081:80</td><td></td><td> </td></tr><tr><td><input type="checkbox"/></td><td><div>flamboyant_varahamihira</div><div>a9dd8a6776d9</div></td><td><a href="#">docker/welcome-to-docker:latest</a></td><td>Exited (255)</td><td>8080:80</td><td></td><td> </td></tr><tr><td><input type="checkbox"/></td><td><div>mysql_8_0</div><div>4c34dfead512</div></td><td><a href="#">mysql:8.0</a></td><td>Exited (255)</td><td>3306:3306</td><td></td><td> </td></tr><tr><td><input type="checkbox"/></td><td><div>mysql_8</div><div>24132a53ab4f</div></td><td><a href="#">mysql:8.0</a></td><td>Created (128)</td><td>3306:3306 3306:33060</td><td></td><td> </td></tr><tr><td><input type="checkbox"/></td><td><div>postgres-zMk7</div><div>5fbd36f4dd94</div></td><td><a href="#">postgres:&lt;none&gt;</a></td><td>Exited (255)</td><td>55000:5432</td><td></td><td> </td></tr></tbody></table></div>	CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	13f0fa5acd1e	redis	"docker-entrypoint.s..."	21 hours ago	Exited (0) 20 h	5d9cf0d42c27	redis	sad_bassi	29 hours ago	Exited (0) 21 h	a9dd8a6776d9	docker/welcome-to-docker	quizzical_mccarthy	29 hours ago	Exited (255) 22	4c34dfead512	mysql:8.0	flamboyant_varahamihira	12 months ago	Exited (255) 10	24132a53ab4f	mysql:8.0	"docker-entrypoint.s..."	12 months ago	Created	5fbd36f4dd94	68f5d950dcd3	mysql_8	19 months ago	Exited (255) 10		0.0.0.0:55000->5432/tcp	postgres-zMk7				NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS	<input type="checkbox"/>	<div>sad_bassi</div> <div>13f0fa5acd1e</div>	<a href="#">redis:latest</a>	Exited				<input type="checkbox"/>	<div>quizzical_mccarthy</div> <div>5d9cf0d42c27</div>	<a href="#">redis:latest</a>	Exited	8081:80			<input type="checkbox"/>	<div>flamboyant_varahamihira</div> <div>a9dd8a6776d9</div>	<a href="#">docker/welcome-to-docker:latest</a>	Exited (255)	8080:80			<input type="checkbox"/>	<div>mysql_8_0</div> <div>4c34dfead512</div>	<a href="#">mysql:8.0</a>	Exited (255)	3306:3306			<input type="checkbox"/>	<div>mysql_8</div> <div>24132a53ab4f</div>	<a href="#">mysql:8.0</a>	Created (128)	3306:3306 3306:33060			<input type="checkbox"/>	<div>postgres-zMk7</div> <div>5fbd36f4dd94</div>	<a href="#">postgres:&lt;none&gt;</a>	Exited (255)	55000:5432		
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# REMOTE, LOGS, RESULT

No	Perintah	Output
8	<b>docker exec -it my-application-container bash</b> digunakan untuk menjalankan perintah atau membuka sesi shell di dalam container Docker yang sedang berjalan. Dalam hal ini saya mengimplementasikan commands : echo, ls dan cat	<pre>○ wartadi@Wartadis-MacBook-Pro belajar-dockerfile % docker exec -it my-application-container bash root@ae82a1c98ae7:/# echo Saya sedang mengerjakan tugas docker Saya sedang mengerjakan tugas docker root@ae82a1c98ae7:/# ls Dockerfile  bin      etc      lib      libx32  mnt      requirements.txt  sbin  tmp README.md   boot    home     lib32    main.py  opt      root            srv   usr __pycache__ dev     img-1.png  lib64    media    proc     run             sys   var root@ae82a1c98ae7:/# cat main.py from fastapi import FastAPI import os  USER_NAME = os.getenv('USER_NAME', 'World')  app = FastAPI()  @app.get("/") def read_root():     return {"Hello": USER_NAME}  # buat running: uvicorn main:app root@ae82a1c98ae7:/#</pre>
9	<b>docker logs my-application-container</b> digunakan untuk menampilkan log dari sebuah Docker container	<pre>● wartadi@Wartadis-MacBook-Pro belajar-dockerfile % docker logs my-application-container INFO: Started server process [7] INFO: Waiting for application startup. INFO: Application startup complete. INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)</pre>
10	<b>![Alt Text](./img-1.png)</b> Dalam hal ini bisa dilihat hasil program pada website dengan memasukkan url <b>localhost:3000</b>	

THANK YOU 😊

