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: 11201034 Nim

: Sister Terdistribusi B Matakuliah

Kode FROM Instruction

```
◆ Dockerfile X
◆ Pocker Dockerfile (2).pptx
```

Kode: Docker Build

```
C:\Gerson Wissaluno\docker> docker build -t sister/simple .

Building 3.8s (6/6) FINISHED

| [internal] load .dockerignore
| >> transferring context: 28
| [internal] load build definition from Dockerfile
| >> transferring dockerfile: 508
| [internal] load metadata for docker.io/library/alpine:3
| [auth] library/alpine:pull token for registry-1.docker.io
| (ACHED [1/1] FROM docker.io/library/alpine:3@sha256:eece025e432126ce23f223450a0326fbebde39cdf496a85d8c016293fc851978
| exporting to image | >> exporting to image | >> exporting layers | >> writing image sha256:lcad2846fc76fdde7217fb06db38fbcdccaed7lbaccc30a7e8ec70f095ea3d11 | >> naming to docker.io/sister/simple |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             docker:default
What's Next?
```

Kode Run Instruction

```
Run > • Dockerfile >
       RUN mkdir hello
RUN echo "hello world" > "hello/world.txt"
```

```
PS C:\Gerson Wissaluno\docker> docker build -t sister/run run
[+] Building 0.8s (0/0)
[+] Building 2.3s (9/9) FINISHED
= [internal] load olockerignore
= = "> transferring context: 28
= [internal] load build definition from Dockerfile
= "> transferring dockerfile: 1428
= [internal] load build definition from Dockerfile
= "> transferring dockerfile: 1428
= [internal] load metadata for docker.io/library/alpine:3
= [auth] library/alpine:pull token for registry-1.docken.io
= [1/4] FROM docker.io/library/alpine:3@sha256:eece025e432126ce23f223450a0326fbebde39cdf496a85d8c016293fc851978
= CACHED [2/4] RNN mkdir hello
= CACHED [3/4] RNN etch "hello world" > "hello/world.txt"
= exporting to image
= >> exporting to image
= >> exporting layers
= > writing image sha256:c19ec76d2d67387ba03aff60cc7f29aaa322497993d2564dcaa1d3f6df8fd0fa
= >> naming to docker.io/sister/run
  What's Next?

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```

Kode Command Instruction

```
◆ Dockerfile FROM
◆ Dockerfile Run ×
       RUN mkdir hello
RUN echo "hello world" > "hello/world.txt"
```

Kode: Docker Build

```
PS C:\Gerson Wissaluno\docker> docker build -t sister/run run
[+] Building 0.9s (0/0)
[+] Building 2.3s (9/9) FINISHED
= [internal] load .dockerignore
=> => transferring context: 28
= [internal] load build definition from Dockerfile
=> => transferring dockerfile: 1428
=> => transferring dockerfile: 1428
=> => transferring dockerfile: 1428
=> [internal] load metadata for docker.io/library/alpine:3
=> [auth] library/alpine:pull token for registry-1.docker.io
=> [1/4] FROM docker.io/library/alpine:38sha256:eece025e432126ce23f223450a0326fbebdd39cdf496a85d8c016293fc851978
=> CACHED [2/4] RUN mkdir hello
=> CACHED [3/4] RUN etho "hello world" > "hello/world.txt"
=> CACHED [3/4] RUN at "hello/world.txt"
=> exporting to image
=> >= verporting to image
=> >= verporting layers
=> = writing image sha256:c19ec76d2d67387ba03aff60cc7f29aaa322497993d2564dcaald3f6df8fd0fa
=> >= naming to docker.io/sister/run
What's Next? View a summary of image vulnerabilities and recommendations \rightarrow docker scout quickview
```

Kode Command Instruction

```
◆ Dockerfile FROM
◆ Dockerfile Command_Instruction X
Command_Instruction >  Dockerfile > .

1 FROM alpine:3
        RUN mkdir hello
RUN echo "hello world" > "hello/world.txt"
```

Kode: Docker Build

```
PS C:\Gerson Wissaluno\docker> docker container create --name command sister/command c51222fe@bcf9f4727f5c6e1969c375e9b108ebfc8cf60f505f875ea987fb1cc
PS C:\Gerson Wissaluno\docker> docker container start command
| PS C:\Gerson wissalune\Gocker docker container logs command
| PS C:\Gerson Wissaluno\docker> docker container logs command
| hello world
| PS C:\Gerson Wissaluno\docker> |
```

Kode Label Instruction

```
◆ Dockerfile Label_Instruction X
Label_Instruction > Dockerfile > ..

1 FROM alpine:3
         LABEL author="Gerson Wissaluno"

LABEL company="Programmer Zaman Now" website="https://www.programmerzamannow.com"
         RUN mkdir hello
RUN echo "Hello World" > "hello/world.txt"
```

Kode: Docker Build

```
PS C:\Gerson Wissalumo\docker\Label_Instruction> docker build -t sister/label .

[+] Building 3.6s (8/8) FINISHED

=> [internal] load build definition from Dockerfile
=>> transferring dockerfile: 2618

=> [internal] load .dockerignore
=>> transferring context: 28

=> [internal] load metadata for docker.io/library/alpine:3

=> [internal] load metadata for docker.io/library/alpine:3

=> [auth] library/alpine:pull token for registry-1.docker.io

=> [1/3] FROM docker.io/library/alpine:3@sha256:eece025e432126ce23f223450a0326fbebde39cdf496a85d8c016293fc851978

>> CACHED [2/3] RUM mkdir hello

>> CACHED [3/3] RUM echo "Hello World" > "hello/world.txt"

=> exporting to image
=>> exporting layers

=> => writing image sha256:89588c37e06667a58f0c4fbf5e4f29aa88f91183d0f870c862fed5d56a5e69e0

=> naming to docker.io/sister/label

What's Next?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    docker:default
What's Next?

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PS C:\Gerson Wissaluno\docker\Label_Instruction>
    PS C:\Gerson Wissaluno\docker\Label_Instruction> docker image inspect sister/label
                                                         "Id": "sha256:89588c37e06667a58f0c4fbf5e4f29aa88f91183d0f870c862fed5d56a5e69e0",
                                  "Repolags : |
"sister/label:latest"
]
| RepoDigests": [],
"Parent": "buildkit.dockerfile.v0",
"Corated": "2023-10-10701:35:10.840034802Z",
"Container": "",
"ContainerConfign: {
    "Hostname": "",
    "Domainname": "",
    "Wser": ",
    "AttachStdout": false,
    "AttachStdout": false,
    "AttachStdout": false,
    "StdinOnce": false,
    "StdinOnce": false,
    "Env': null,
    "Cmd': null,
    "Indiags": ",
    "Volumes": rull,
    "WorkingDir": "",
    "Entrypoint": null,
    "OnBuild": null,
    "OnBui
                                                               "RepoTags": [
"sister/label:latest"
```

Kode Add Instruction

```
Dockerfile add_instruction ★ gerson.txt
add instruction > • Dockerfile >
      ADD text/*.txt hello
      CMD cat "hello/world.txt"
```

```
C:\Gerson Wissaluno\docker\add_instruction> docker build -t sister/add .
 PS C:\Gerson Wissaluno\docker\add_instruction> docker build -t sister/add .

[+] Building 3.5s (9/9) FINISHED

>> [internal] load .dockerignore

>> => transferring context: 28

>> [internal] load build definition from Dockerfile

>> => transferring dockerfile: 1208

>> [internal] load metadata for docker.io/library/alpine:3

>> [auth] library/alpine:pull token for registry-1.docker.io

>> [1/3] FROM docker.io/library/alpine:3@sha256:eece025e432126ce23f223450a0326fbebde39cdf496a85d8c016293fc851978

>> [internal] load build context

>> => transferring context: 2078
   => => transferring context: 207B
=> CACHED [2/3] RUN mkdir hello
=> [3/3] ADD text/*.txt hello
   -> exporting to image

=> => exporting layers

=> => expiring image sha256:9152af73d2391edd6b7526aa612b474c78db5d4353454c3f61390cbd1dbcf3e0

=> => naming to docker.io/sister/add
What's Next? View a summary of image vulnerabilities and recommendations \rightarrow docker scout quickview
```

Kode Add Instruction

Kode: Docker Build

Kode DockerIgnore

```
Dockerfile From_Instruction

Dockerfile Pockerfile Dockerignore_File X

Dockerfile Dockerfile Dockerignore_File X

Dockerfile Dockerfile Dockerfile Dockerignore_File X

Dockerfile Docke
```

```
PS C:\Gerson Wissalumo\docker\Dockerignore_File> docker build -t sister/ignore .

[-] Building 4.1s (9/9) FINISHED

> [internal] load .dockerignore

> | 0.1s

> | 0.1s

> | (internal] load build definition from Dockerfile

> | 0.1s

> | (internal] load build definition from Dockerfile

| 0.1s

> | (internal] load build definition from Dockerfile
| 0.1s

> | (internal] load metadata for docker.io/library/alpine:3

> | (auth) library/alpine:pull token for registry-1.docker.io

| 0.1s

> | (auth) library/alpine:3@sha256:eece025e432126ce23f223450e0326fbebde39cdf496a85d8c016293fc851978

| 0.0s

> | (internal] load build context
| 0.1s

| 0.8s

> | (internal] load build context
| 0.8s

> | (internal] load build context
| 0.8s

> | (internal] load build context
| 0.8s

| (internal] load build context
| 0.8s

| (internal] load build context
| 0.8s

| (internal] load build context
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| (internal] load build context
| 0.8s
| (internal] load build context
| 0.8s
| (internal] load build context
| 0.8s
| (internal] load build c
```

Kode Expose Instruction

```
PS C:\Gerson Missaluno\docker\Expose_Instruction> docker build -t sister/expose .

(|-| Building 43.65 (9/9) FINISHED
| Sintennal] load build definition from Dockerfile | 6.1s |
| Sintennal] load build definition from Dockerfile | 6.1s |
| Sintennal] load dockeringer | 6.6s |
| Sintennal] load dockeringer | 6.6s |
| Sintennal] load dockeringer | 6.1s |
| Sintennal] load dockeringer | 6.1s |
| Sintennal] load dockeringer | 6.1s |
| Sintennal] load material | 6.6s |
| Sintennal] load build context | 6.6s |
| Sintennal] load build c
```

```
PS C:\Gerson Wissaluno\docker\Expose_Instruction> docker container create --name expose -p 8080:8080 sister/expose f51684705895cf20dd1fca070018c6198f88beaaa0df25c4742e26b48a6c8826

PS C:\Gerson Wissaluno\docker\Expose_Instruction> docker container start expose expose

PS C:\Gerson Wissaluno\docker\Expose_Instruction> docker container ls

CONTAINER ID IMAGE COMPANDO CREATED STATUS PORTS

NAMES

61684705895 sister/expose 'P\Din/sh -c 'go run _" 25 seconds ago Up 8 seconds 0.0.0.0:8080->8080/tcp expose

PS C:\Gerson Wissaluno\docker\Expose_Instruction>
```

Kode Environment Variabel Instruction

```
◆ Dockerfile Env_Instruction X

         ENV APP_PORT=8080
        EXPOSE ${APP_PORT}
        CMD go run app/main.go
        func main() {
   port := os.Getenv("APP_PORT")
   fmt.Println("Run app in port : " + port)
   http.HandleFunc("", HelloServer)
   http.ListenAndServe(":"+port, nil)
func HelloServer(w http.ResponseWriter, r *http.Request) {
fmt.Fprintf(w, "Hello, World!")
}
```

```
PS C:\Gerson Wissaluno\docker\Env Instruction> docker build -t sister/env .

[+] Building 4.0s (9/9) FINTSHED

> [internal] load build definition from Dockerfile

> > transferring dockerfile: 1648

= [internal] load cockerignore

> > transferring context: 28

= [internal] load estadata for docker.io/library/golang:1.18-alpine

> [auth] library/golang:pull token for registry-1.docker.io

> CACHED [1/3] FROM docker.io/library/golang:1.18-alpine@sha256:77f25981bd57e60a510165f3be89c901aec90453fd0f1c5a45691f6cb1528807

= [internal] load build context

> > transferring context: 3588

= [2/3] RUM mkdir app

= [3/3] COPY main.go app

> exporting to image

> > exporting to image

> > exporting to image

> > naming to docker.io/sister/env

What's Next?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            docker:default
  What's Next?

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Of the News Wiscallung dockon Fau Tochouchion
```

```
PS C:\Gerson Wissaluno\docker\Env_Instruction> docker image inspect sister/env
                                                                   "Id": "sha256:3ba431b19ecea093fd469324522124e1ac7e83ed7a8405c755b82269a6e90281".
                                                "RepoTags": [
    "sister/env:latest"
],
"RepoEgsts": [],
"Parent": "",
"Comment": "buildkit.dockerfile.v0",
"Created": "2023-10-13700:10:04.080867554Z",
"Container": "",
"Container": "",
"Domainname": "",
"Domainname": "",
"AttachStdin": false,
"AttachStdin": false,
"AttachStdurt": false,
"AttachStdern": false,
"Tty": false,
"OpenStdin": false,
"StdinOnce": false,
"Env": null,
"Entrypoint": null,
"MorkingDir": ",
"Entrypoint": null,
"OnBuild": null,
"Labels": null,
"Labels": null,
"Labels": null,
"Inage": ",
"Entrypoint": null,
"Consuild": null,
"Labels": null,
"Labels": null,
"Inage": ",
"Entrypoint": null,
"Consuild": null,
"Labels": null,
"Labels": null,
"Inage": ",
"Inage": ",
"Entrypoint": null,
"Consuild": null,
"Labels": null,
"Inage": ",
"Inage": ",
"Entrypoint": null,
"Labels": null,
"Inage": ",
"Inage": ",
"Entrypoint": null,
"Inage": ",
"Entrypoint": null,
"Inage": ",
"
                                                                       "RepoTags": [
"sister/env:latest"
               PS C:\Gerson Wissaluno\docker> docker container start env
PS C:\Gerson Missaluno\docker> docker container start env
env

PS C:\Gerson Missaluno\docker> docker container create --name env --env APP_PORT=8080 -p 8080:8080 sister/env
d711dad72208b06025fc86c694883216d740b66e587d8b16a04976081e869c5

PS C:\Gerson Missaluno\docker> docker container start env
env

PS C:\Gerson Missaluno\docker> docker container logs env

Run app in port : 8080

PS C:\Gerson Missaluno\docker>
```

Kode Volume Instruction

```
Dockerfile Volume_Instruction X
ne_Instruction > • Dockerfile > 😚 FROM FROM golang:1.18-alpine
  ENV APP DATA=/logs
  RUN mkdir ${APP_DATA}
 RUN mkdir app
COPY main.go app
 EXPOSE ${APP_PORT}
VOLUME ${APP_DATA}
  CMD go run app/main.go
```

```
PS C:\Gerson Wissaluno\docker\Volume_Instruction> docker build -t sister/volume .

[+] Building 4.7s (10/10) FINISHED

> [internal] load build definition from Dockerfile

> > > transferring dockerfile: 2318

> [internal] load .dockerignore

> > transferring doctext: 28

= [internal] load metadata for docker.io/library/golang:1.18-alpine

= [auth] library/golang:pull token for registry-1.docker.io

> CACHED [1/4] FROM docker.io/library/golang:1.18-alpine@sha256:77f25981bd57e60a510165f3be89c901aec90453fd0f1c5a45691f6cb1528807

= [internal] load build context

> > transferring context: 6858

= 2(2/4] RUN mkdir /logs

= 3(3/4) RUN mkdir /logs

> (3/4) RUN mkdir /logs

> > exporting to image

> > exporting to image
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           docker:default
   What's Next?

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```

```
### C. C. Carson Missalumolocker/Wollaw_Instruction docker image image: sister/volume

{
    "Id": "hm256: ##2376#75da64225d557ee88fd77a8804e68988d5254874fftc230c04169",
    "Stater/volume latest"
    "Stater/volume latest": "##23-8-13780.0513.000
    "Stater/volume latest": "##23-8-13780.0513.000
    "Stater "" "##23-8-13780.0513.000
    "Stater "" "##23-8-13780.0513.000
    "Stater "" "##23-8-13780.0513.000
    "Attacktotion": false,
    "Attacktotion": false,
    "Attacktotion": false,
    "Attacktotion": false,
    "Top": false,
```

```
# PS C:\Gerson Wissaluno\docker\Volume_Instruction> docker volume ls
DRIVER VOLUME NAME
local 6c:0d1541062e73b427b4e1e8003090803a418fe7c72328d918dfd0c059d5380
local ccc4b65e116d9eec7c2900d955781f2224b84776_8809619b46709d269ba1f94
```

Kode Working Directory Instrcution

```
working_Directory_Instruction  

Working_Directory_Instruction  

Working_Directory_Instruction  

Working_Directory_Instruction  

Dockerfile Volume_Instruction  

Working_Directory_Instruction  

Dockerfile Volume_Instruction  

Working_Directory_Instruction  

Working_Directory_Instruction
```

```
wo maingo Env_Instruction

wo maingo Expose_Instruction

wo Dockerfile Volume_Instruction

wo Dockerfile Working_Directory_Instruction

wo maingo Working_Directory_Instruction

wo maingo Expose_Instruction

wo Dockerfile Working_Directory_Instruction

wo maingo Working_Directory_Instruction

wo maingo Working_Directory_Instruction

wo maingo Working_Directory_Instruction

wo maingo Expose_Instruction

wo maingo Expose_Instruction

wo Dockerfile Working_Directory_Instruction

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wo Dockerfile Working_Directory_Instruction

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ma
```

Kode: Docker Build

```
## PS C:\Gerson Wissaluno\docker\Working_Directory_Instruction\ docker build -t sister/workdir .

[-] Building 3.7s (9/9) FINISHED

>> [internal] load .dockerignore

>> ptransferring context: 28

>> ptransferring dockerfile: 1328

>> [internal] load build definition from Dockerfile

>> ptransferring dockerfile: 1328

>> [internal] load metadata for docker.io/library/golang:1.18-alpine

>> [auth] library/golang:1.18-alpine@sha256:77f25981bd57e6@a510165f3be89c9@laec90453fd@f1c5a45691f6cb1528807

|> (auth) library/golang:1.18-alpine@sha256:77f25981bd57e6@a510165f3be89c9@laec90453fd@f1c5a45691f6cb1528807

|> (auth) library/golang:1.18-alpine@sha256:77f25981bd57e6@a510165f3be89c9@laec90453fd@f1c5a45691f6cb1528807

|> (auth) library/golang:1.18-alpine@sha256:77f25981bd57e6@a510165f3be89c9@laec90453fd@f1c5a45691f6cb1528807

|| (auth) library/golang:1.18-alpine@sha256:77f25981bd57e6@a510165f3be89c9@laec90453fd0f1c5a45691f6cb1528807

|| (auth) library/golang:1.18-alpine@sha256:77f25981bd57e6@a510165f3be89c9@laec90453fd0f1c5a45691f6cb1528807

|| (au
```

Kode User Instrcution

```
## Dockerfile Volume_Instruction  ## Dockerfile Working_Directory_Instruction  ## Dockerfile User_Instruction  ## Dockerfile U
```

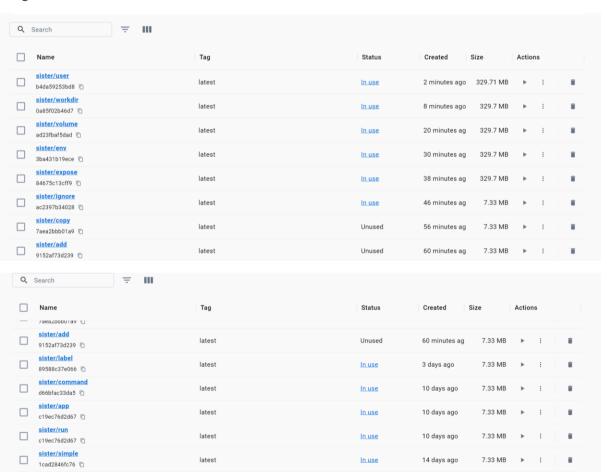
Kode: Docker Build

```
=> ⇒> transferring context: 28

=> [internal] load metadata for docker.io/library/golang:1.18-alpine
=> [auth] library/golang:pull token for registry-1.docker.io
=> [auth] library/golang:pull token for registry-1.docker.io
=> [auth] library/golang:1.18-alpine@sna256:77f25981bd57e60a510165f3be89c901aec90453fd0f1c5a45691f6cb1528807
=> b. transferring context: 2758
=> > transferring context: 2758
=> (2/6) RUN mkdir /app
=> (3/6) RUN addgroup -5 pzngroup
=> (3/6) RUN addgroup -5 pzngroup
=> (5/5) (5/6) COPY main.go /app
=> exporting to image
=> > exporting to image
=> > exporting layers
=> > naming to docker.io/sister/user

| What's Next? |
| View a summary of image vulnerabilities and recommendations → docker scout quickview
| PS C:\Gerson Wissaluno\docker\User_Instruction> docker container create --name user -p 8888:8880 sister/user
| Soc | Gerson Wissaluno\docker\User_Instruction> docker container exec -i -t user /bin/sh /go $ whomin
| pznuser | psnuser: pznuser: pznuse
```

Images



Containers

Q Search		Only show running containers				
	Name	Image	Status	CPU (%) Port(s)	Last started	Actions
	determined_banzai 11ff22e872ca ①	sister/app:latest	Exited	0%	2 hours ago	→ : ■
	suspicious_ellis 5d23849cd82c 🖺	sister/app:latest	Exited	0%	1 hour ago	→ : i
	hungry_fermat 2e3f22fca305 🗈	sister/simple:latest	Exited	0%	1 hour ago	→ : ■
	command c51222fe0bcf	sister/command	Exited	0%	1 hour ago	→ : i
	88924e24907f 🛅	sister/ignore	Exited	0%	28 minutes ago	→ : i
	expose f61684705895 🛅	sister/expose	Exited (2)	0% 8080:8080 ☑	37 minutes ago	→ : i
	env d711dad72208 🕤	sister/env	Exited (2)	0% 8080:8080 ☑	26 minutes ago	· : II
	volume 0d0df68f746e 🗇	sister/volume	Exited (2)	0% 8080:8080 ₺	8 minutes ago	→ : II
	workdir 50d4433ae3b5 🖺	sister/workdir	Exited (2)	0% 8080:8080 ☑	8 minutes ago	· : II
	user 65eac02dcdc1 ①	sister/user	Running	0% <u>8080:8080</u> 🗷	2 minutes ago	
						01 . 47.