Tugas 8 Pemrograman Jaringan (CSH4V3)

Semester Ganjil 2019 - 2020 Dosen: Aulia Arif Wardana, S.Kom., M.T. (UIW)

Berdo'alah sebelum mengerjakan. Dilarang berbuat curang. Tugas ini untuk mengukur kemampuan anda, jadi kerjakan dengan sepenuh hati. Selamat belajar, semoga sukses!

Nama Mahasiswa:	NIM:	Nilai:
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Nama Mahasiswa:	NIM:	Nilai:
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		•••••

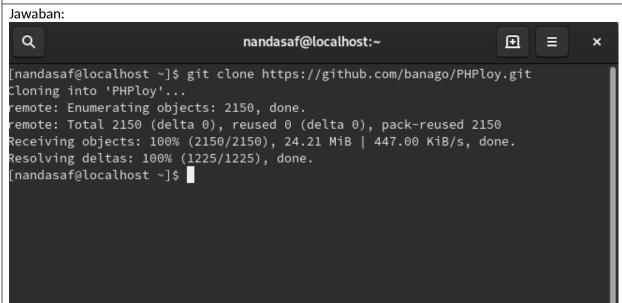
Siapkan tools berikut sebelum mengerjakan:

- 1. Harus menggunakan linux dengan distro fedora (https://getfedora.org/id/workstation/).
- 2. Buatlah git repository pada https://github.com/ kemudian push semua kode dan hasil laporan anda ke dalam repository github yang sudah anda buat.
- 3. Gunakan docker (https://www.docker.com/) dan kubernetes (https://kubernetes.io/id/) untuk membuat container.
- 4. Kumpulkan link repository github tersebut sebagai tanda bahwa anda mengerjakan tugas modul ini.
- 5. Link repository harus berbeda untuk setiap tugasnya. Buatlah markdown yang rapi disetiap repository tugas yang anda kumpulkan.
- 6. Printscreen program harus dari desktop kelompok anda sendiri, dan harus dari linux yang sudah diinstall. Jika tidak, maka harus mengulang pengerjaan tugasnya.
- 7. Jangan lupa untuk menuliskan NAMA dan NIM pada laporan.
- 8. Laporan berbentuk PDF dan dikumpulkan pada link repository github beserta kodenya.
- 9. Walaupun tugas berkelompok tapi pengumpulan link github harus individu, jika tidak mengumpulkan maka dianggap tidak mengerjakan.

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Soal No 1 (Create container from web application)

Buatlah container dari docker dan kubernetes untuk web aplikasi yang telah anda buat pada tugas modul 4 soal nomor 1.



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```
[nandasaf@localhost ~]$ sudo su
[sudo] password for nandasaf:
[root@localhost nandasaf]# cd Documents
[root@localhost Documents]# cd Tugas8
bash: cd: Tugas8: No such file or directory
[root@localhost Documents]# cd TUGAS8
[root@localhost TUGAS8]# go mod init tugas-docker
go mod init: go.mod already exists
[root@localhost TUGAS8]# go get -u github.com/gorilla/mux
go: finding github.com/xdg/scram v0.0.0-20180814205039-7eeb5667e42c
go: finding github.com/golang/snappy v0.0.1
go: finding github.com/xdg/stringprep v1.0.0
go: finding golang.org/x/sync v0.0.0-20190911185100-cd5d95a43a6e
go: finding golang.org/x/text v0.3.2
go: finding golang.org/x/crypto v0.0.0-20191011191535-87dc89f01550
go: finding go.mongodb.org/mongo-driver v1.1.2
go: finding golang.org/x/tools v0.0.0-20180917221912-90fa682c2a6e
go: finding golang.org/x/net v0.0.0-20190404232315-eb5bcb51f2a3
go: finding golang.org/x/sys v0.0.0-20190412213103-97732733099d
go: finding golang.org/x/text v0.3.0
go: finding golang.org/x/crypto v0.0.0-20190308221718-c2843e01d9a2
go: finding golang.org/x/sys v0.0.0-20190215142949-d0b11bdaac8a
[root@localhost TUGAS8]# go get -u go.mongodb.org/mongo-driver/bson
go: finding go.mongodb.org/mongo-driver/bson latest
[root@localhost TUGAS8]# go get -u go.mongodb.org/mongo-driver/bson/primitive
go: finding go.mongodb.org/mongo-driver/bson/primitive latest
go: finding go.mongodb.org/mongo-driver/bson latest
[root@localhost TUGAS8]# go get -u go.mongodb.org/mongo-driver/mongo
go: finding go.mongodb.org/mongo-driver/mongo latest
go: downloading github.com/golang/snappy v0.0.1
go: downloading github.com/xdg/scram v0.0.0-20180814205039-7eeb5667e42c
go: downloading github.com/xdg/stringprep v1.0.0
go: downloading golang.org/x/sync v0.0.0-20190911185100-cd5d95a43a6e
go: extracting github.com/xdg/scram v0.0.0-20180814205039-7eeb5667e42c
go: downloading golang.org/x/crypto v0.0.0-20191011191535-87dc89f01550
go: extracting github.com/golang/snappy v0.0.1
go: extracting github.com/xdg/stringprep v1.0.0
go: downloading golang.org/x/text v0.3.2
go: extracting golang.org/x/sync v0.0.0-20190911185100-cd5d95a43a6e
go: extracting golang.org/x/crypto v0.0.0-20191011191535-87dc89f01550
go: finding github.com/DataDog/zstd v1.4.4
go: finding github.com/pkg/errors v0.8.1
go: extracting golang.org/x/text v0.3.2
go: downloading github.com/pkg/errors v0.8.1
go: extracting github.com/pkg/errors v0.8.1
go: downloading github.com/DataDog/zstd v1.4.4
go: extracting github.com/DataDog/zstd v1.4.4
[root@localhost TUGAS8]# go get -u go.mongodb.org/mongo-driver/mongo/options
```

go: finding go.mongodb.org/mongo-driver/mongo/options latest

go: finding go.mongodb.org/mongo-driver/mongo latest

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```
[root@localhost TUGAS8]# go get -u tugas-docker
go: finding golang.org/x/sync latest
go: finding golang.org/x/crypto latest
go: finding golang.org/x/net latest
go: finding golang.org/x/sys latest
go: finding golang.org/x/tools latest
go: finding golang.org/x/sync v0.0.0-20190423024810-112230192c58
go: finding golang.org/x/sync v0.0.0-20190620200207-3b0461eec859
go: finding golang.org/x/net v0.0.0-20190620200207-3b0461eec859
go: finding golang.org/x/xerrors v0.0.0-20191011141410-1b5146add898
go: finding golang.org/x/mod v0.1.1-0.20191105210325-c90efee705ee
go: finding github.com/xdg/scram latest
go: finding golang.org/x/xerrors latest
go: finding golang.org/x/crypto v0.0.0-20191206172530-e9b2fee46413
go: extracting golang.org/x/crypto v0.0.0-20191206172530-e9b2fee46413
```

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```
[root@localhost TUGAS8]# docker build -t go-docker .
Sending build context to Docker daemon 14.34kB
Step 1/7 : FROM golang:latest
latest: Pulling from library/golang
16ea0e8c8879: Pull complete
50024b0106d5: Pull complete
ff95660c6937: Pull complete
9c7d0e5c0bc2: Pull complete
2a19d2e6789c: Pull complete
d53b5eb247b8: Pull complete
d1e7779aa3cd: Pull complete
Digest: sha256:536bd7f56e7fd590cfaf33a9e8fff7374661fbb992aece6b441b1f39c9c1c7e8
Status: Downloaded newer image for golang:latest
 ---> a1072a078890
Step 2/7 : WORKDIR /app
 ---> Running in b122cc29cdef
Removing intermediate container b122cc29cdef
 ---> 0a5f9d4bbace
Step 3/7 : COPY go.mod go.sum ./
 ---> cl19ee609166
Step 4/7 : RUN go mod download
 ---> Running in 41bd63b797da
go: finding github.com/DataDog/zstd v1.4.4
go: finding github.com/go-stack/stack v1.8.0
go: finding github.com/golang/snappy v0.0.1
go: finding github.com/gorilla/mux v1.7.3
go: finding github.com/pkg/errors v0.8.1
go: finding github.com/xdg/scram v0.0.0-20180814205039-7eeb5667e42c
go: finding github.com/xdg/stringprep v1.0.0
go: finding go.mongodb.org/mongo-driver v1.2.0
go: finding golang.org/x/crypto v0.0.0-20191206172530-e9b2fee46413
go: finding golang.org/x/mod v0.1.1-0.20191105210325-c90efee705ee
go: finding golang.org/x/net v0.0.0-20191209160850-c0dbc17a3553
go: finding golang.org/x/sync v0.0.0-20190911185100-cd5d95a43a6e
go: finding golang.org/x/sys v0.0.0-20190911185100-cd5d95a43a6e
go: finding golang.org/x/sys v0.0.0-20191218084908-4a24b4065292
go: finding golang.org/x/text v0.3.2
 ---> Running in 41bd63b797da
Removing intermediate container 41bd63b797da
 ---> 0a7e58480722
Step 5/7 : COPY . .
 ---> 2da46cc65e1a
Step 6/7 : RUN go build -o main .
 ---> Running in d5ace3d7ce4f
Removing intermediate container d5ace3d7ce4f
 ---> 5fdc1ce14bf6
Step 7/7 : CMD ["./main"]
 ---> Running in 76da9bf86524
Removing intermediate container 76da9bf86524
 ---> c20dd3e88d27
Successfully built c20dd3e88d27
Successfully tagged go-docker:latest
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