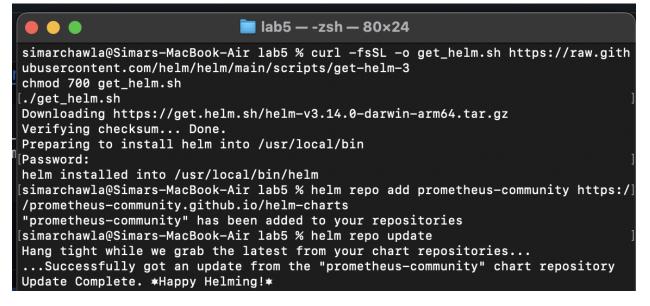
```
simarchawla@Simars-MacBook-Air lab5 % curl -fsSL -o get_helm.sh https://raw.gith ubusercontent.com/helm/helm/main/scripts/get-helm-3 chmod 700 get_helm.sh [./get_helm.sh]
Downloading https://get.helm.sh/helm-v3.14.0-darwin-arm64.tar.gz
Verifying checksum... Done.
Preparing to install helm into /usr/local/bin
Password:
helm installed into /usr/local/bin/helm simarchawla@Simars-MacBook-Air lab5 %
```



```
lab5 — -zsh — 80×24
simarchawla@Simars-MacBook-Air lab5 % helm install prometheus prometheus-communi
ty/prometheus
NAME: prometheus
LAST DEPLOYED: Wed Feb 7 18:44:56 2024
NAMESPACE: default
STATUS: deployed
REVISION: 1
TEST SUITE: None
NOTES:
The Prometheus server can be accessed via port 80 on the following DNS name from
within your cluster:
prometheus-server.default.svc.cluster.local
Get the Prometheus server URL by running these commands in the same shell:
  export POD_NAME=$(kubectl get pods --namespace default -l "app.kubernetes.io/n
ame=prometheus,app.kubernetes.io/instance=prometheus" -o jsonpath="{.items[0].me
tadata.name}")
  kubectl --namespace default port-forward $POD NAME 9090
The Prometheus alertmanager can be accessed via port 9093 on the following DNS n
ame from within your cluster:
```

ime allotted, but may still be processing the request (get pods) [simarchawla@Simars-MacBook-Air lab5 % kubectl get pods NAME RESTARTS AGE dapp-57fb7cd8c7-xxqnd 1/1 Running 5 (9d ago) 12d ganache-76dfbb5d45-fqvpl 1/1 Running 45 (9d ago) 12d mongo-express-deployment-b88f6d45f-dqd22 0/1 Error 15 (9d ago) 18d mongodb-stateful-set-0 1/1 Running 15 (9d ago) 18d mongodb-stateful-set-1 1/1 Running 15 (9d ago) 18d note-deployment-74cc946cd8-88c6n 1/1 Running							
NAME RESTARTS AGE dapp-57fb7cd8c7-xxqnd 5 (9d ago) 12d ganache-76dfbb5d45-fqvpl 45 (9d ago) 12d mongo-express-deployment-b88f6d45f-dqd22 75 (9d ago) 18d mongodb-stateful-set-0 15 (9d ago) 18d mongodb-stateful-set-1 171 Running 15 (9d ago) 18d note-deployment-74cc946cd8-88c6n 1/1 Running							
dapp-57fb7cd8c7-xxqnd       1/1       Running         5 (9d ago)       12d       1/1       Running         ganache-76dfbb5d45-fqvpl       1/1       Running         45 (9d ago)       12d       0/1       Error         15 (9d ago)       18d       1/1       Running         mongodb-stateful-set-0       1/1       Running         15 (9d ago)       18d       1/1       Running         note-deployment-74cc946cd8-88c6n       1/1       Running							
ganache-76dfbb5d45-fqvpl							
mongo-express-deployment-b88f6d45f-dqd22       0/1       Error         15 (9d ago)       18d         mongodb-stateful-set-0       1/1       Running         15 (9d ago)       18d         mongodb-stateful-set-1       1/1       Running         15 (9d ago)       18d         note-deployment-74cc946cd8-88c6n       1/1       Running							
mongodb-stateful-set-0 1/1 Running 15 (9d ago) 18d mongodb-stateful-set-1 1/1 Running 15 (9d ago) 18d note-deployment-74cc946cd8-88c6n 1/1 Running							
mongodb-stateful-set-1 1/1 Running 15 (9d ago) 18d note-deployment-74cc946cd8-88c6n 1/1 Running							
note-deployment-74cc946cd8-88c6n 1/1 Running							
00 (04) 404							
28 (9d ago) 18d note-deployment-74cc946cd8-rwwpj 0/1 CrashLoopBackOff							
28 (3m19s ago) 18d note-server-deployment-6fb5fcb67f-6hm7j 0/1 Error							
30 (9d ago) 18d note-server-deployment-6fb5fcb67f-vtwql 1/1 Running							
34 (3m53s ago) 18d prometheus-alertmanager-0 0/1 ContainerCreating							
0 3m6s prometheus-kube-state-metrics-745b475957-9h4xn 0/1 ContainerCreating							
0 3m6s prometheus-prometheus-node-exporter-m9k8q 1/1 Running							
0 3m6s prometheus-prometheus-pushgateway-6ccd698d79-r9ssg 0/1 Running							
0 3m6s prometheus-server-5c99dfc547-qv22c 0/2 ContainerCreating							
0 3m6s react-5d44c95bdd-ft5kx 1/1 Running							
13 (9d ago) 12d simarchawla@Simars-MacBook-Air lab5 %							

	•••	<b>i</b> lab5 –	zsh — 80×35			
	0 3m					
Ė	react-5d44c95bdd-ft5			1/1	Running	
ı	13 (9d ago) 12				,	
	[simarchawla@Simars-M				EVERNAL T	
	NAME D. DODT(S)	AGE	TYPE	CLUSTER	-1P	EXTERNAL-I
n	P PORT(S)	AGE	ClusterIP	10.99.1	70 122	(none)
ı	dapp 4000/TCP	12d	Clustelle	10.77.1	77.132	<none></none>
ı	ganache	124	ClusterIP	10.101.	113.179	<none></none>
	8545/TCP	12d	Old Stoll	10.101.		11101107
	kubernetes		ClusterIP	10.96.0	.1	<none></none>
ı	443/TCP	18d				
	mongo-express-servic	е	LoadBalancer	10.100.	43.119	<pending></pending>
	8081:32101/TCP	18d				
ı	mongodb-service		ClusterIP	10.99.4	9.139	<none></none>
U	27017/TCP	18d				
1	note-server-service		ClusterIP	10.102.	206.156	<none></none>
ı	5000/TCP	18d	Land Dallaman	10 100	000 100	4
Į	note-service 3000:31397/TCP	18d	LoadBalancer	10.103.	220.129	<pending></pending>
P	prometheus-alertmana			10.102.109.0	<none></none>	
Н	9093/TCP	4m21s	ClusterIP	10.102.107.0		(IIIIIE)
ı		rometheus-alertmanager-headless		None		<none></none>
ı	9093/TCP 4m21s		ClusterIP			
		rometheus-kube-state-metrics		10.100.	10.236	<none></none>
	8080/TCP	4m21s				
	prometheus-prometheu		ClusterIP	10.111.	191.107	<none></none>
	9100/TCP	4m21s	ClusterIP			
		ometheus-prometheus-pushgateway		10.106.	105.236	<none></none>
	9091/TCP	4m21s	01+	10 111	150 100	4
S	prometheus-server	/m21 o	ClusterIP	10.111.	153.132	<none></none>
	80/TCP react	4m21s	LoadBalancer	10.96.1	11 61	<pending></pending>
	3001:30799/TCP	12d	Loaubalancel	10.70.1	11.01	The liu ing >
	imarchawla@Simars-MacBook-Air lab5 %					
	SIMITOTAWINGSIMATS THEBOOK AIT INDO 70 [					

## ■ lab5 — -zsh — 80×35

	idbo	23.1. 33.133							
[simarchawla@Simars-MacBook-Air lab5 % kubectl expose service prometheus-server -] -type=NodePorttarget-port=9090name=prometheus-server-ext service/prometheus-server-ext exposed									
	imarchawla@Simars-MacBook-Air lab5 % kubectl get svc								
NAME	Madback Mil Labo	TYPE	CLUSTER-IP	EXTERNAL-I					
P PORT(S)	AGE		OLOGILK II	LATERIAL I					
dapp	AUL	ClusterIP	10.99.179.132	<none></none>					
4000/TCP	12d	Olustelle	10.77.177.132	(IIIIIe)					
ganache	120	ClusterIP	10.101.113.179	<none></none>					
8545/TCP	12d	014310111	10.101.110.17	VIIOIIC?					
kubernetes	110	ClusterIP	10.96.0.1	<none></none>					
443/TCP	18d	014010111	101,01011	11101107					
mongo-express-servi		LoadBalancer	10.100.43.119	<pending></pending>					
8081:32101/TCP	18d			·poilaziigi					
mongodb-service		ClusterIP	10.99.49.139	<none></none>					
27017/TCP	18d								
note-server-service	е	ClusterIP	10.102.206.156	<none></none>					
5000/TCP	18d								
note-service		LoadBalancer	10.103.220.129	<pending></pending>					
3000:31397/TCP	18d								
prometheus-alertmanager		ClusterIP	10.102.109.0	<none></none>					
9093/TCP	7m10s								
prometheus-alertman	nager-headless	ClusterIP	None	<none></none>					
9093/TCP	7m10s								
prometheus-kube-sta	ate-metrics	ClusterIP	10.100.10.236	<none></none>					
8080/TCP	7m10s								
prometheus-promethe	eus-node-exporter	ClusterIP	10.111.191.107	<none></none>					
9100/TCP	7m10s								
prometheus-promethe		ClusterIP	10.106.105.236	<none></none>					
9091/TCP	7m10s								
prometheus-server		ClusterIP	10.111.153.132	<none></none>					
80/TCP	7m10s								
prometheus-server-e		NodePort	10.102.48.55	<none></none>					
80:30397/TCP	15s								
react		LoadBalancer	10.96.111.61	<pending></pending>					

```
[simarchawla@Simars-MacBook-Air lab5 % minikube ip
192.168.49.2
simarchawla@Simars-MacBook-Air lab5 % helm repo add grafana https://grafana.gith
ub.io/helm-charts

"grafana" has been added to your repositories
[simarchawla@Simars-MacBook-Air lab5 % helm repo update
Hang tight while we grab the latest from your chart repositories...
...Successfully got an update from the "grafana" chart repository
...Successfully got an update from the "prometheus-community" chart repository
Update Complete. *Happy Helming!*
simarchawla@Simars-MacBook-Air lab5 %
```

```
lab5 — -zsh — 80×35
space by default
simarchawla@Simars-MacBook-Air lab5 % helm install grafana grafana/grafana
NAME: grafana
LAST DEPLOYED: Wed Feb 7 19:18:14 2024
NAMESPACE: default
STATUS: deployed
REVISION: 1
NOTES:
1. Get your 'admin' user password by running:
  kubectl get secret --namespace default grafana -o jsonpath="{.data.admin-pass
word}" | base64 --decode; echo
2. The Grafana server can be accessed via port 80 on the following DNS name from
within your cluster:
  grafana.default.svc.cluster.local
  Get the Grafana URL to visit by running these commands in the same shell:
    export POD NAME=$(kubectl get pods --namespace default -l "app.kubernetes.i
o/name=grafana,app.kubernetes.io/instance=grafana" -o jsonpath="{.items[0].metad
ata.name}")
    kubectl --namespace default port-forward $POD_NAME 3000
3. Login with the password from step 1 and the username: admin
######
       WARNING: Persistence is disabled!!! You will lose your data when
                                                                 ####
######
               the Grafana pod is terminated.
                                                                 ####
simarchawla@Simars-MacBook-Air lab5 %
```

```
[simarchawla@Simars-MacBook-Air lab5 % kubectl expose service grafana --type=Node]
Port --target-port=3000 --name=grafana-ext
service/grafana-ext exposed
simarchawla@Simars-MacBook-Air lab5 % ■
```

[simarchawla@Simars-MacBook-Air lab5 % kubectl get secret --namespace default gra] fana -o jsonpath="{.data.admin-password}" | base64 --decode ; echo 0POT048IoaxOvxlP0VzJ5qWzoTTYmXmDMEVQXE3y simarchawla@Simars-MacBook-Air lab5 % ■