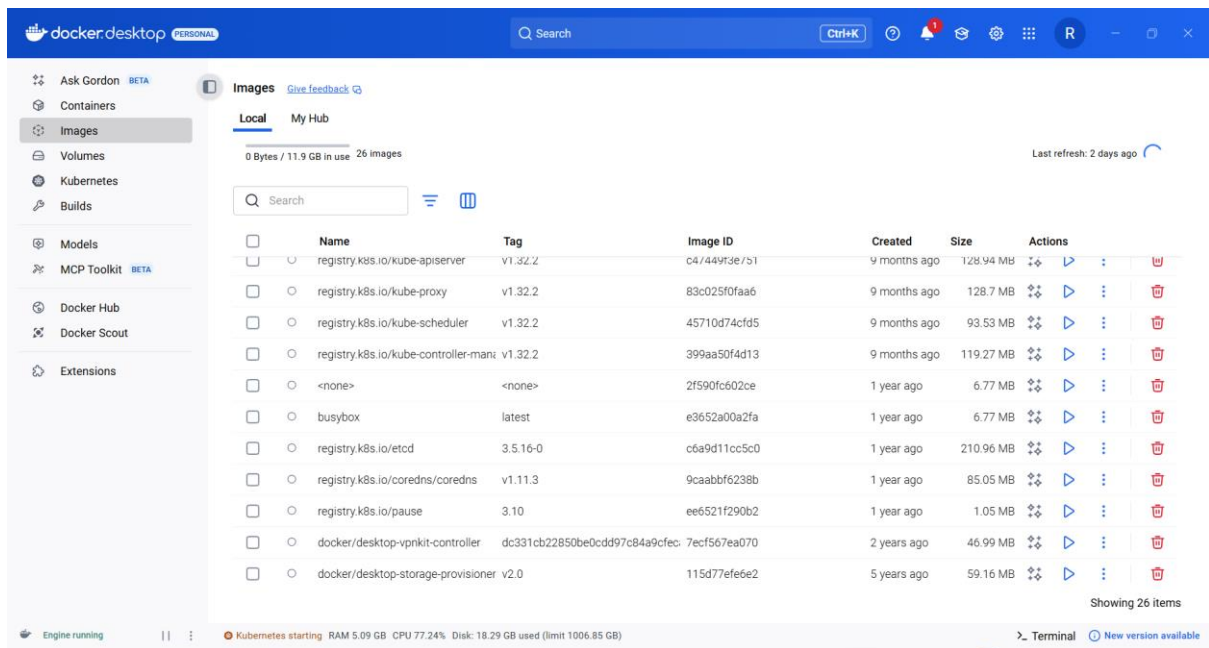
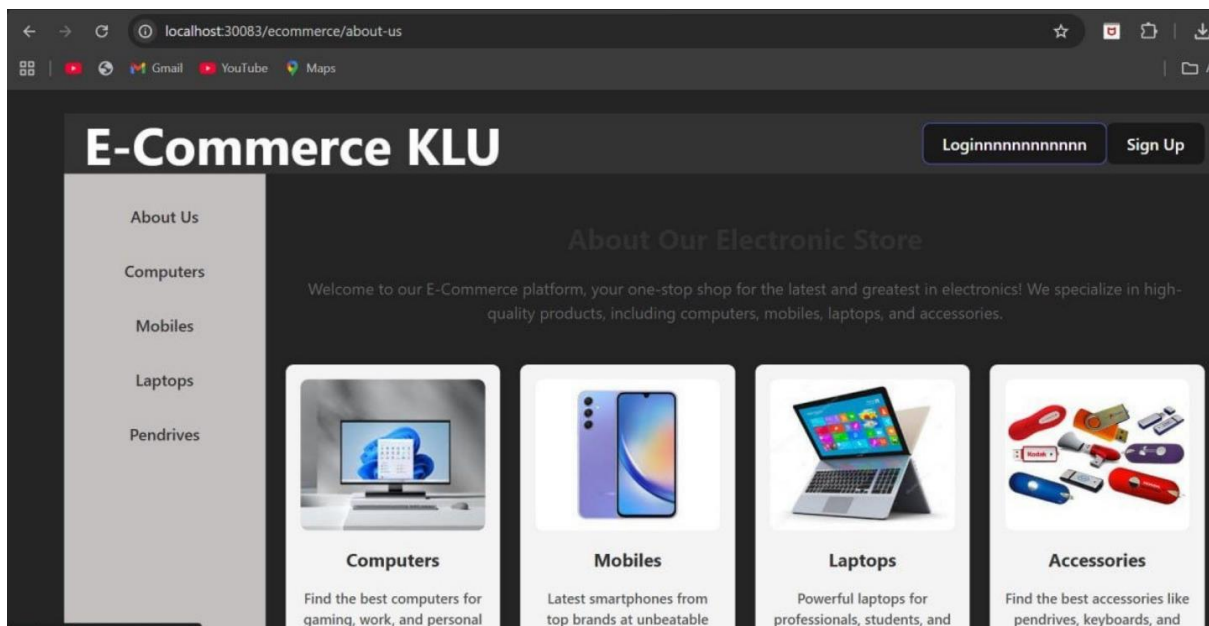


Practical 8&9: Deploy a Fullstack Application Using Helm and Ingress with Autoscaling

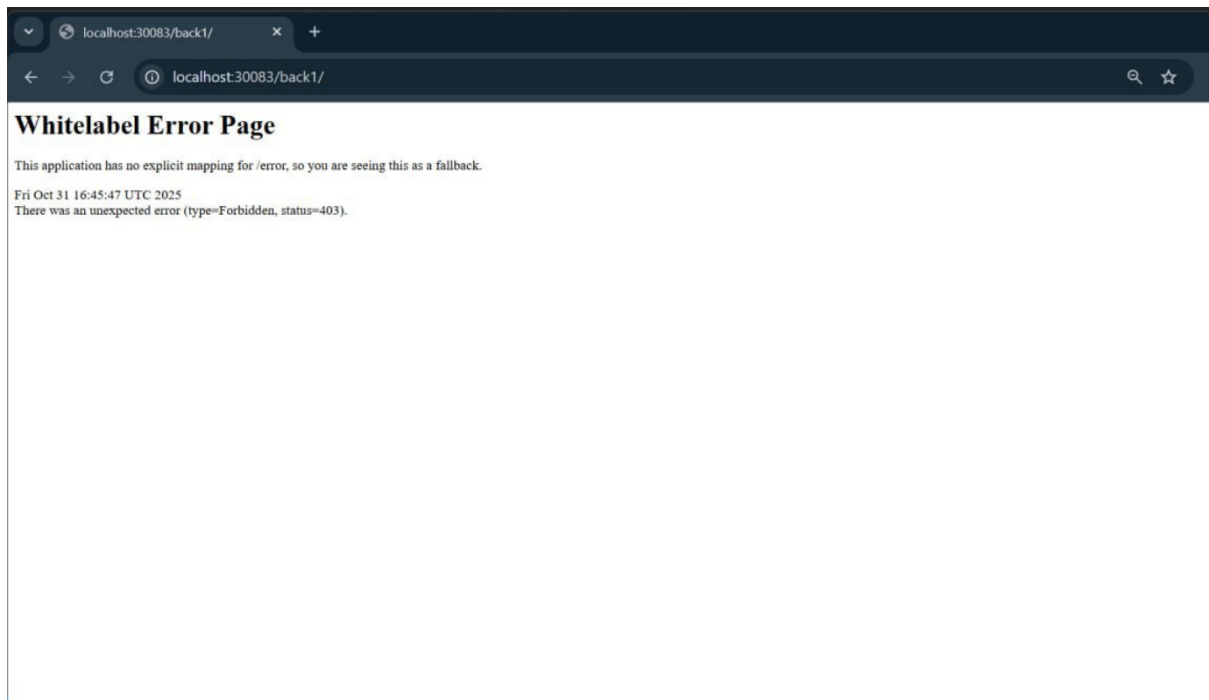


The screenshot shows the Docker Desktop interface. The left sidebar contains navigation options: Ask Gordon (BETA), Containers, Images (selected), Volumes, Kubernetes, Builds, Models, MCP Toolkit (BETA), Docker Hub, Docker Scout, and Extensions. The main panel displays the 'Images' tab with a search bar and a table of local images. The table has columns for Name, Tag, Image ID, Created, Size, and Actions. The status bar at the bottom indicates 'Engine running' and 'Kubernetes starting' with resource usage: RAM 5.09 GB, CPU 77.24%, and Disk 18.29 GB used (limit 1006.85 GB).

Name	Tag	Image ID	Created	Size	Actions
registry.k8s.io/kube-apiserver	v1.32.2	c4/449f3e/51	9 months ago	128.94 MB	[Icons]
registry.k8s.io/kube-proxy	v1.32.2	83c025f0faa6	9 months ago	128.7 MB	[Icons]
registry.k8s.io/kube-scheduler	v1.32.2	45710d74cfd5	9 months ago	93.53 MB	[Icons]
registry.k8s.io/kube-controller-man	v1.32.2	399aa50f4d13	9 months ago	119.27 MB	[Icons]
<none>	<none>	2f590fc602ce	1 year ago	6.77 MB	[Icons]
busybox	latest	e3652a00a2fa	1 year ago	6.77 MB	[Icons]
registry.k8s.io/etcd	3.5.16-0	c6a9d11cc5c0	1 year ago	210.96 MB	[Icons]
registry.k8s.io/coredns/coredns	v1.11.3	9caabbf6238b	1 year ago	85.05 MB	[Icons]
registry.k8s.io/pause	3.10	ee6521f290b2	1 year ago	1.05 MB	[Icons]
docker/desktop-vpnkit-controller	dc331cb22850be0cdd97c84a9cfec	7ecf567ea070	2 years ago	46.99 MB	[Icons]
docker/desktop-storage-provisioner	v2.0	115d77efe6e2	5 years ago	59.16 MB	[Icons]



The screenshot shows a web browser at the URL localhost:30083/eCommerce/about-us. The page features a dark theme with a sidebar on the left containing links: About Us, Computers, Mobiles, Laptops, and Pendrives. The main content area is titled 'About Our Electronic Store' and includes a welcome message. Below the text are four product categories, each with an image and a description: Computers (Find the best computers for gaming, work, and personal), Mobiles (Latest smartphones from top brands at unbeatable), Laptops (Powerful laptops for professionals, students, and), and Accessories (Find the best accessories like pendrives, keyboards, and).



```
D:\CICD\Practical 8\ecommerce-chart\ecommerce-chart>kubectl get services
NAME          TYPE          CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
frontend      NodePort      10.97.253.223    <none>           8085:30083/TCP   25d
kubernetes    ClusterIP     10.96.0.1        <none>           443/TCP          32d
nginx         LoadBalancer 10.101.187.143   localhost        80:30364/TCP     32d

D:\CICD\Practical 8\ecommerce-chart\ecommerce-chart>kubectl delete frontend -n default
error: the server doesn't have a resource type "frontend"

D:\CICD\Practical 8\ecommerce-chart\ecommerce-chart>kubectl delete service frontend -n default
service "frontend" deleted

D:\CICD\Practical 8\ecommerce-chart\ecommerce-chart>helm install ecommerce-chart-deploy .
I1022 11:19:54.710197 26576 warnings.go:110] "Warning: annotation \"kubernetes.io/ingress.class\" is deprecated, use \"kubernetes.io/ingress.classname\" instead"
NAME: ecommerce-chart-deploy
LAST DEPLOYED: Wed Oct 22 11:19:53 2025
NAMESPACE: default
STATUS: deployed
REVISION: 1
DESCRIPTION: Install complete
TEST SUITE: None

D:\CICD\Practical 8\ecommerce-chart\ecommerce-chart>kubectl get deployments
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
backend       2/2     2             2           12m
frontend      2/2     2             2           12m
mysql         1/1     1             1           12m
nginx         1/1     1             1           32d

D:\CICD\Practical 8\ecommerce-chart\ecommerce-chart>
```