- the minimum number of nodes (e.g., 1-2).
- 2. Connect to the AKS cluster using Azure Cloud Shell with kubectl.
- 3. Deploy a lightweight Nginx application for verification.
- 4. Delete the AKS cluster immediately after testing to avoid additional VM and cluster costs.

Practical Task 6: Deploy a Containerized Application on AKS

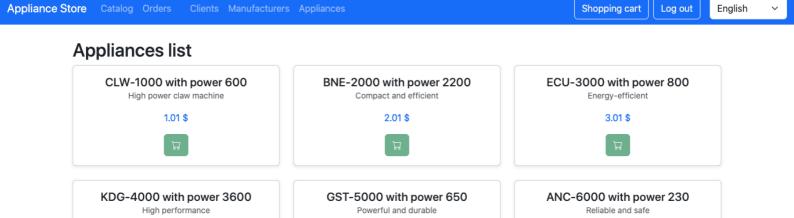
Requirements:

- 1. Build a lightweight Docker image for a simple web application (e.g., a Node.js app with minimal dependencies) and push it to Azure Container Registry (ACR).
- Reuse the AKS cluster from Task 5 to deploy the application using a Kubernetes deployment and service manifest file.
- 3. Test the application for a limited time and remove the deployment afterward.

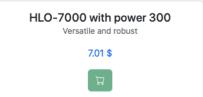
Practical Task 7: Configure and Use ConfigMaps and Secrets in AKS

Requirements:

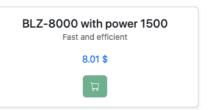
- 1. Create a ConfigMap to store non-sensitive configuration data with only the required key-value pairs for the application.
- 2. Create a Kubernetes Secret to store sensitive data (e.g., API keys) with the least amount of information needed.
- 3. Update the application deployment to use the ConfigMap and Secret.



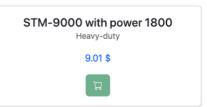
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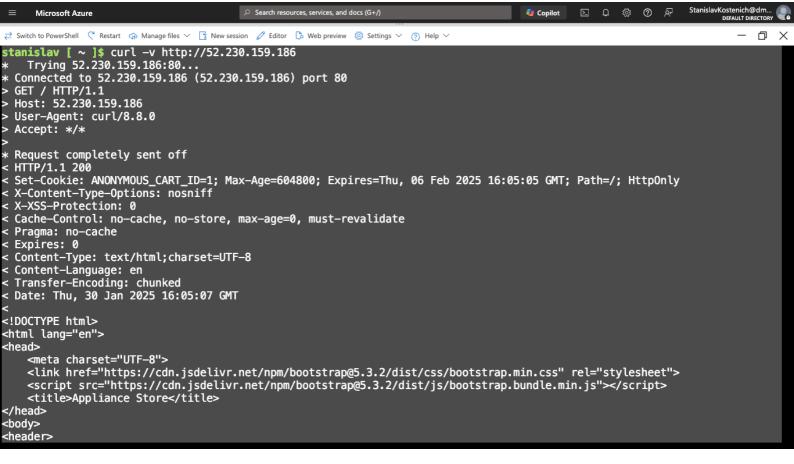
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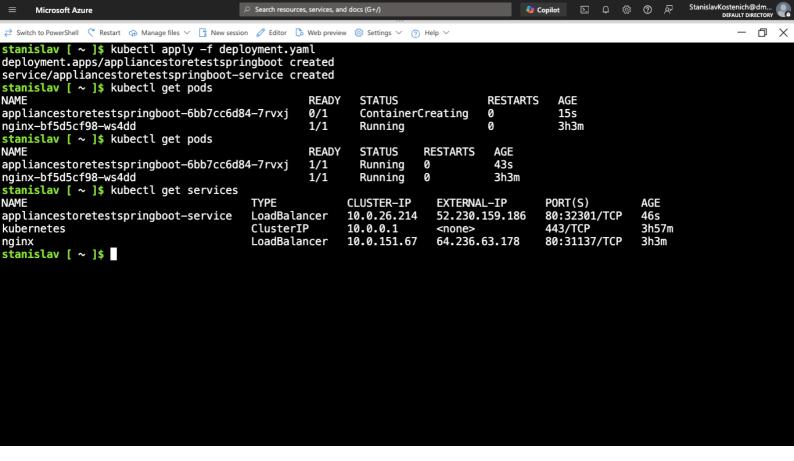


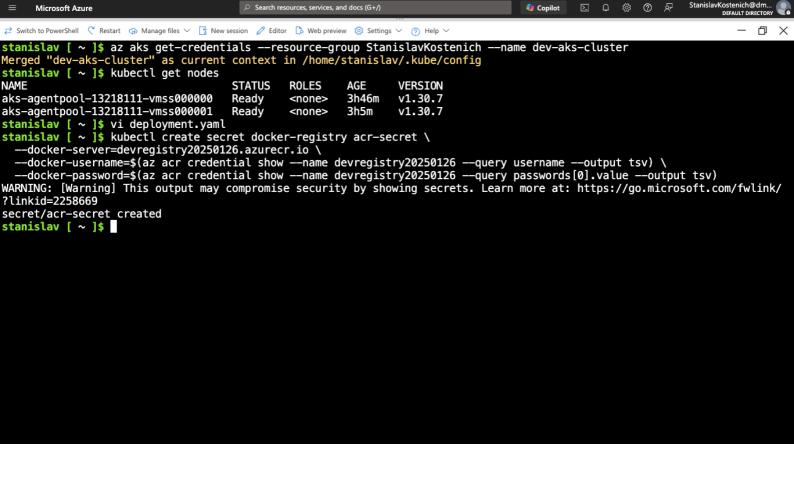
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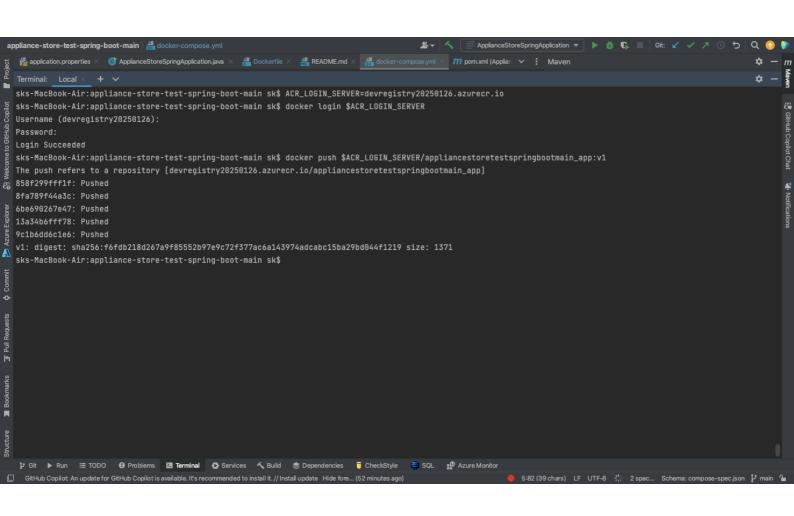
6.01 \$

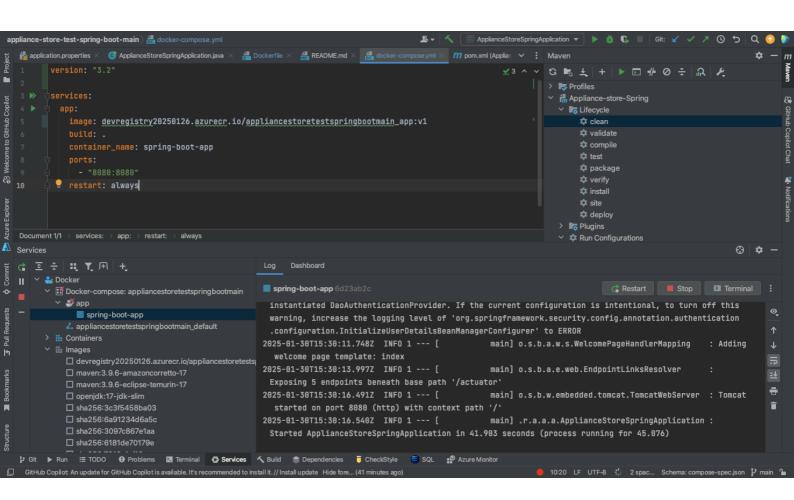


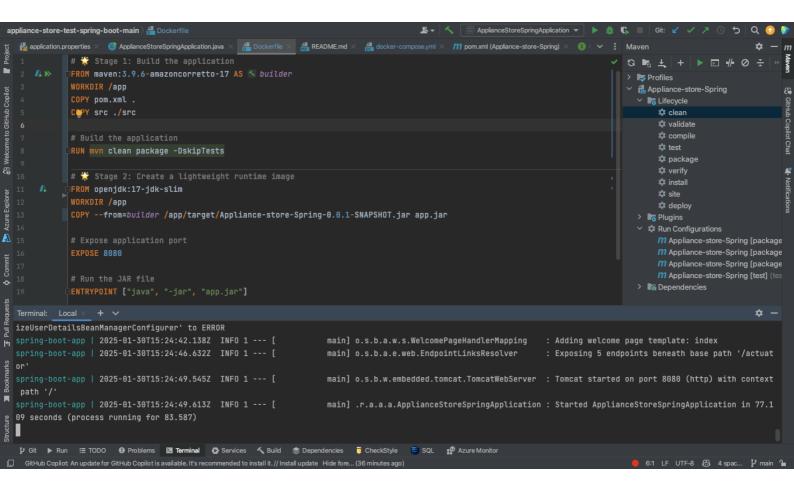




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4.	Delete the AKS cluster immediately after testing to avoid additional VM and cluster costs.
Practical Task 6: Deploy a Containerized Application on AKS	
Requirements:	
	Build a lightweight Docker image for a simple web application (e.g., a Node.js app with minimal dependencies) and push it to Azure Container Registry (ACR). Reuse the AKS cluster from Task 5 to deploy the application using a Kubernetes deployment
3.	and service manifest file. Test the application for a limited time and remove the deployment afterward.
Practical Task 7: Configure and Use ConfigMaps and Secrets in AKS	
Requirements:	
1.	Create a ConfigMap to store non-sensitive configuration data with only the required key-value pairs for the application. Create a Kubernetes Secret to store sensitive data (e.g. API keys) with the least amount of