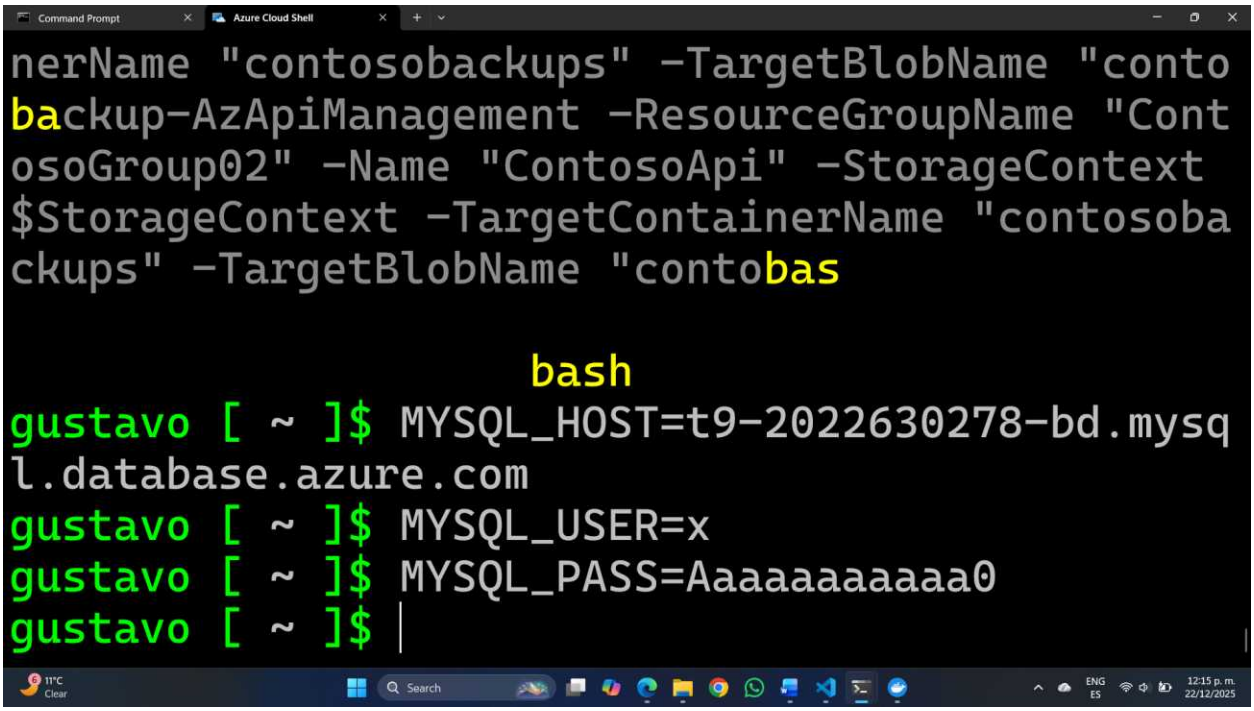
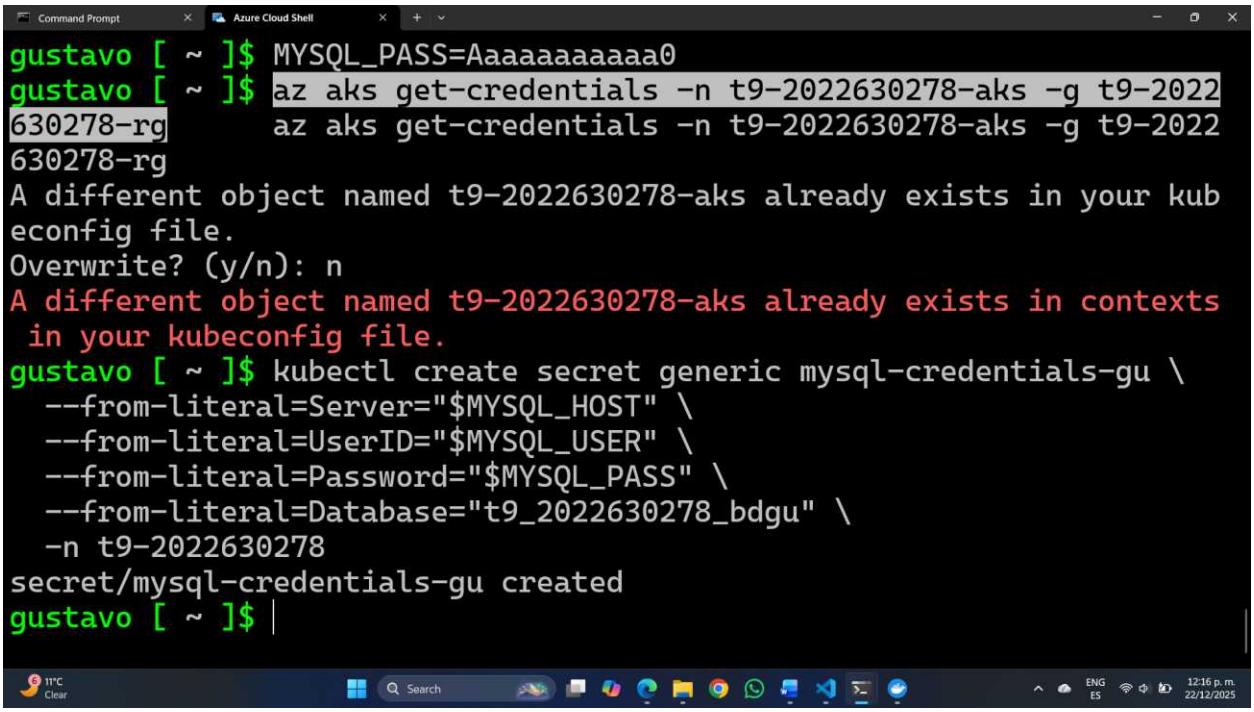


Figura 10.6 Creación de variables de entorno para ingresar a MySQL

Para GU:



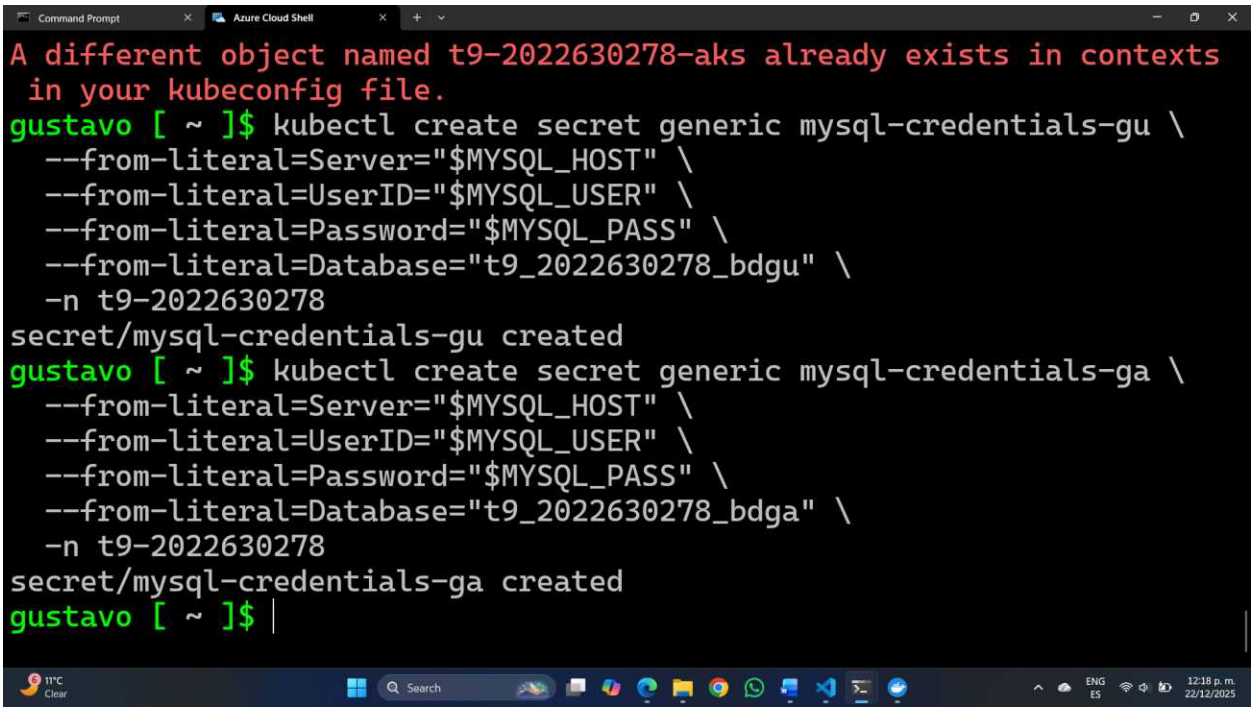


Figura 10.8 Creación de secretos para gu

Para GC:

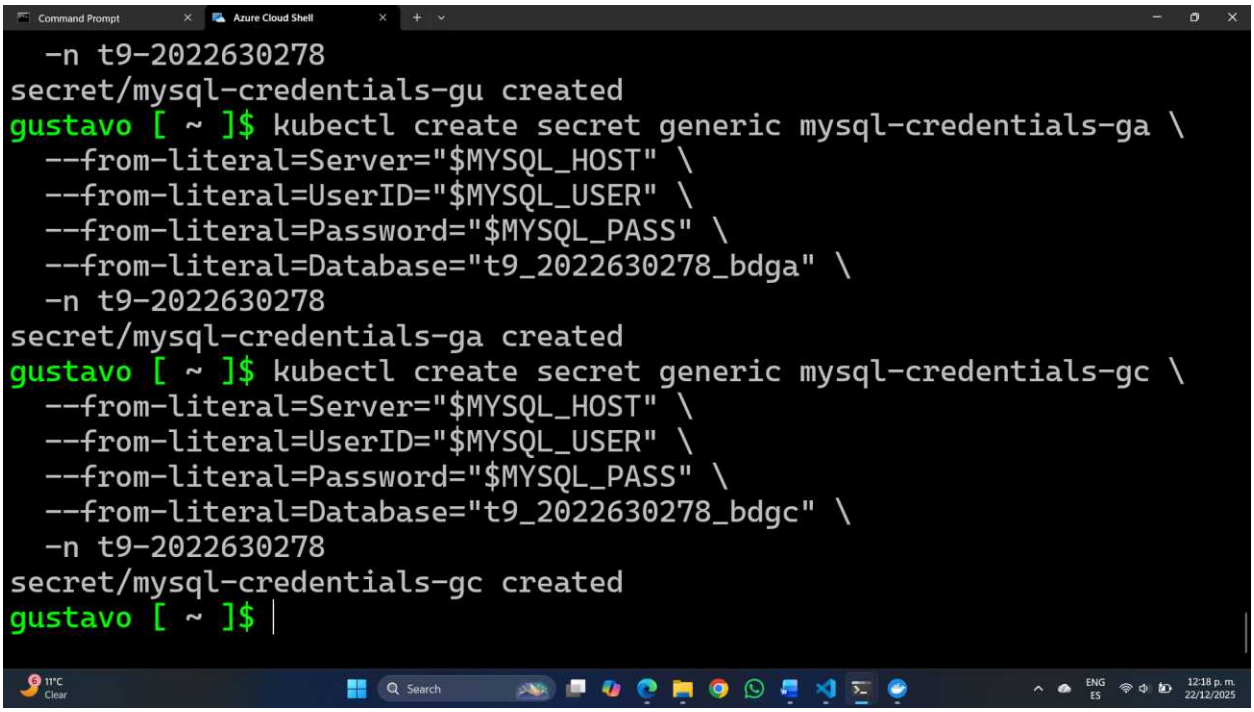
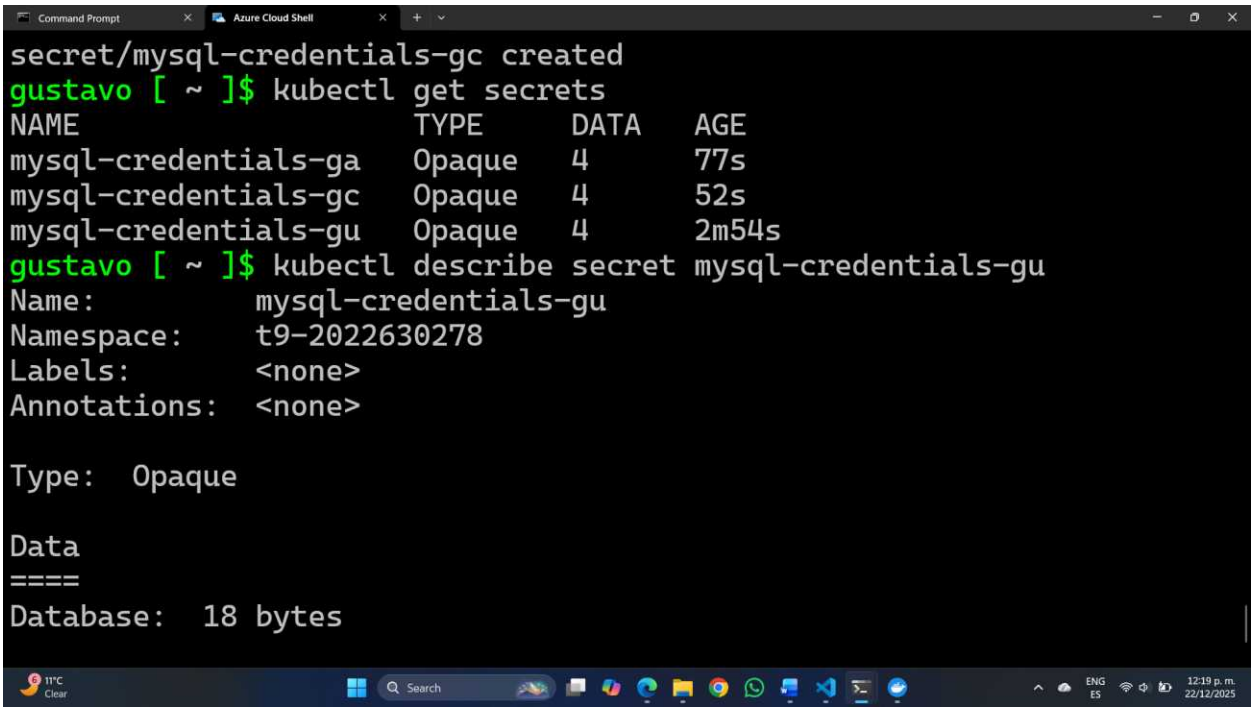
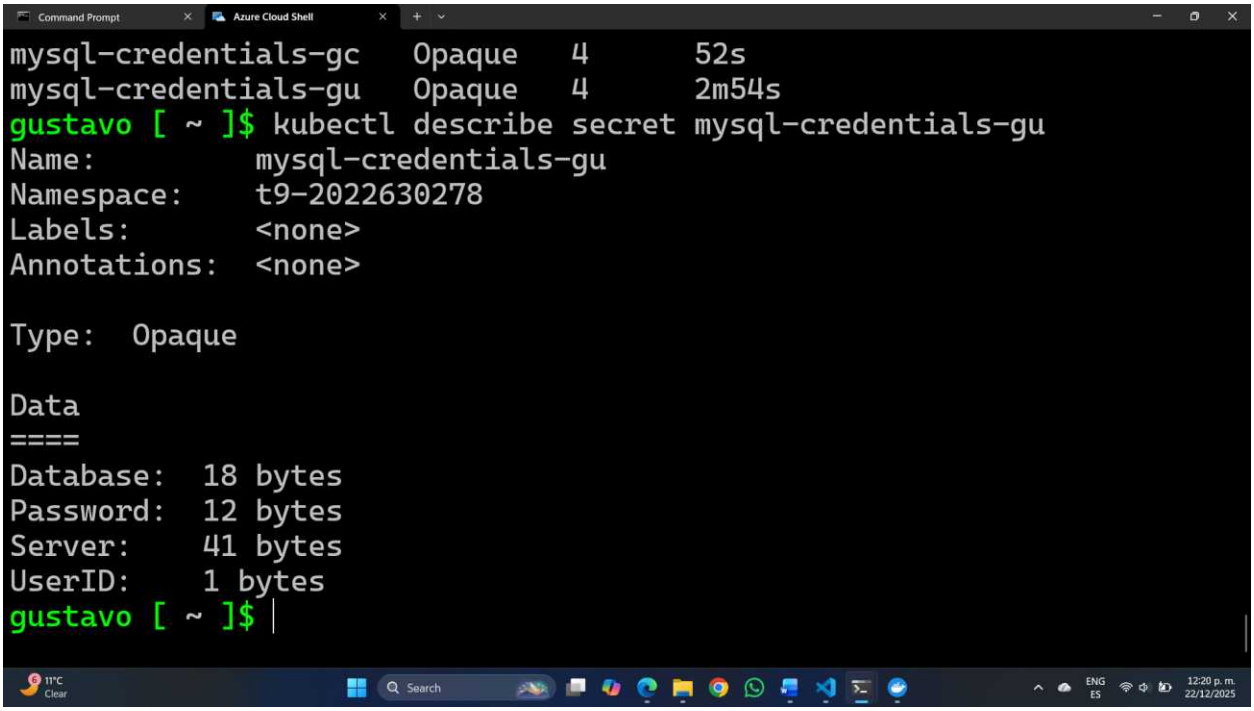


Figura 10.9 Creación de secretos para gc

Verifica que existen:

- kubectl get secrets
- kubectl describe secret mysql-credentials-gu
- kubectl describe secret mysql-credentials-ga
- kubectl describe secret mysql-credentials-gc


Command Prompt
Azure Cloud Shell
secret/mysql-credentials-gc created
gustavo [~]$ kubectl get secrets
NAME   TYPE   DATA   AGE
mysql-credentials-ga   Opaque   4   77s
mysql-credentials-gc   Opaque   4   52s
mysql-credentials-gu   Opaque   4   2m54s
gustavo [~]$ kubectl describe secret mysql-credentials-gu
Name: mysql-credentials-gu
Namespace: t9-2022630278
Labels: <none>
Annotations: <none>
Type: Opaque
Data
====
Database: 18 bytes


Command Prompt
Azure Cloud Shell
mysql-credentials-gc   Opaque   4   52s
mysql-credentials-gu   Opaque   4   2m54s
gustavo [~]$ kubectl describe secret mysql-credentials-gu
Name: mysql-credentials-gu
Namespace: t9-2022630278
Labels: <none>
Annotations: <none>
Type: Opaque
Data
====
Database: 18 bytes
Password: 12 bytes
Server: 41 bytes
UserID: 1 bytes
gustavo [~]$

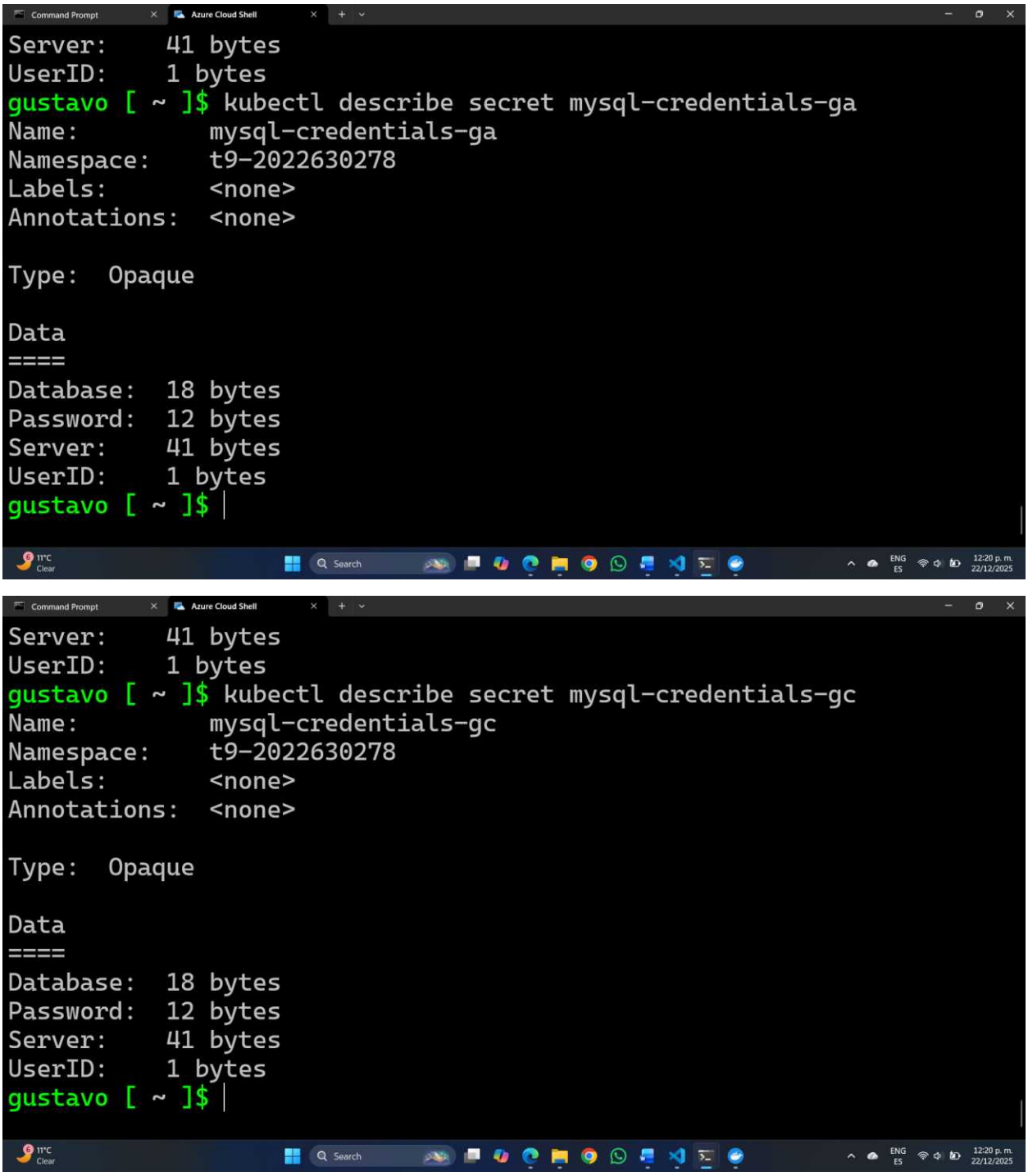


Figura 10.9 Verificar secretos

- Se instaló el ConfigMap ms-config con USERS_URL, COMPRAS_URL y ROOT.

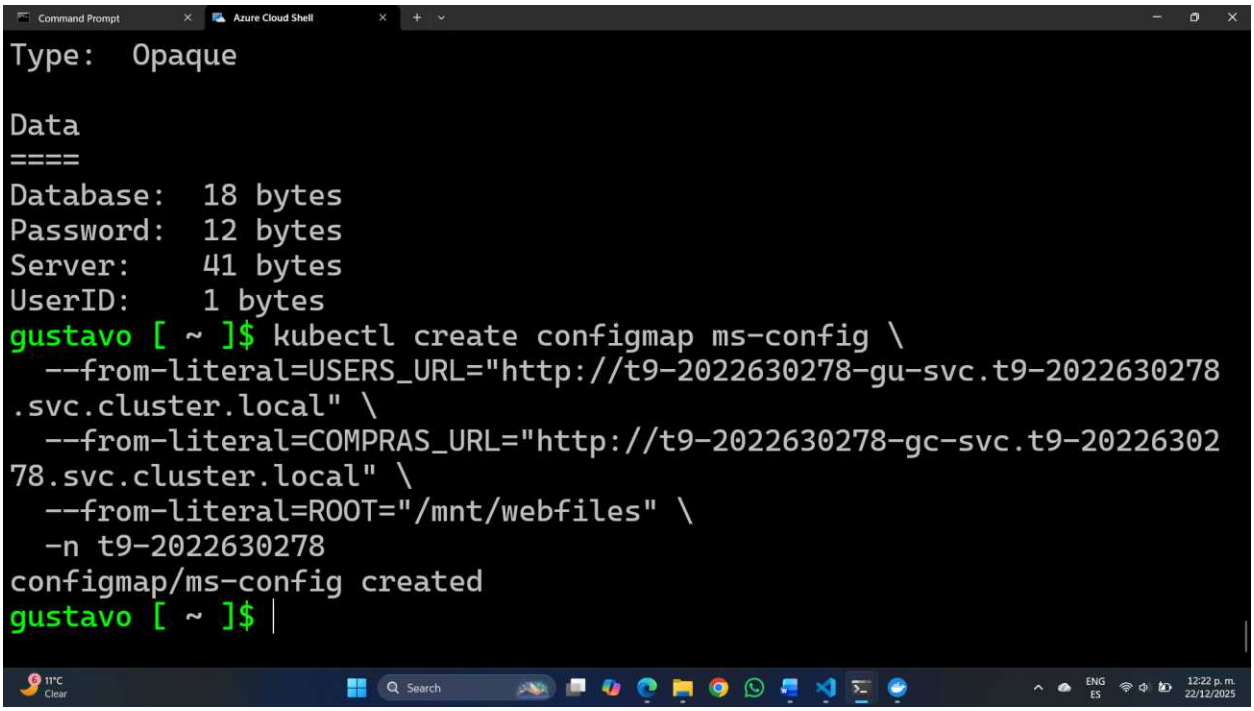


Figura 10.10 Creación de secretos para urls

- Se accedió a la sección de configuración de cada Deployment para validar envFrom y env apuntando a Secrets y ConfigMaps.

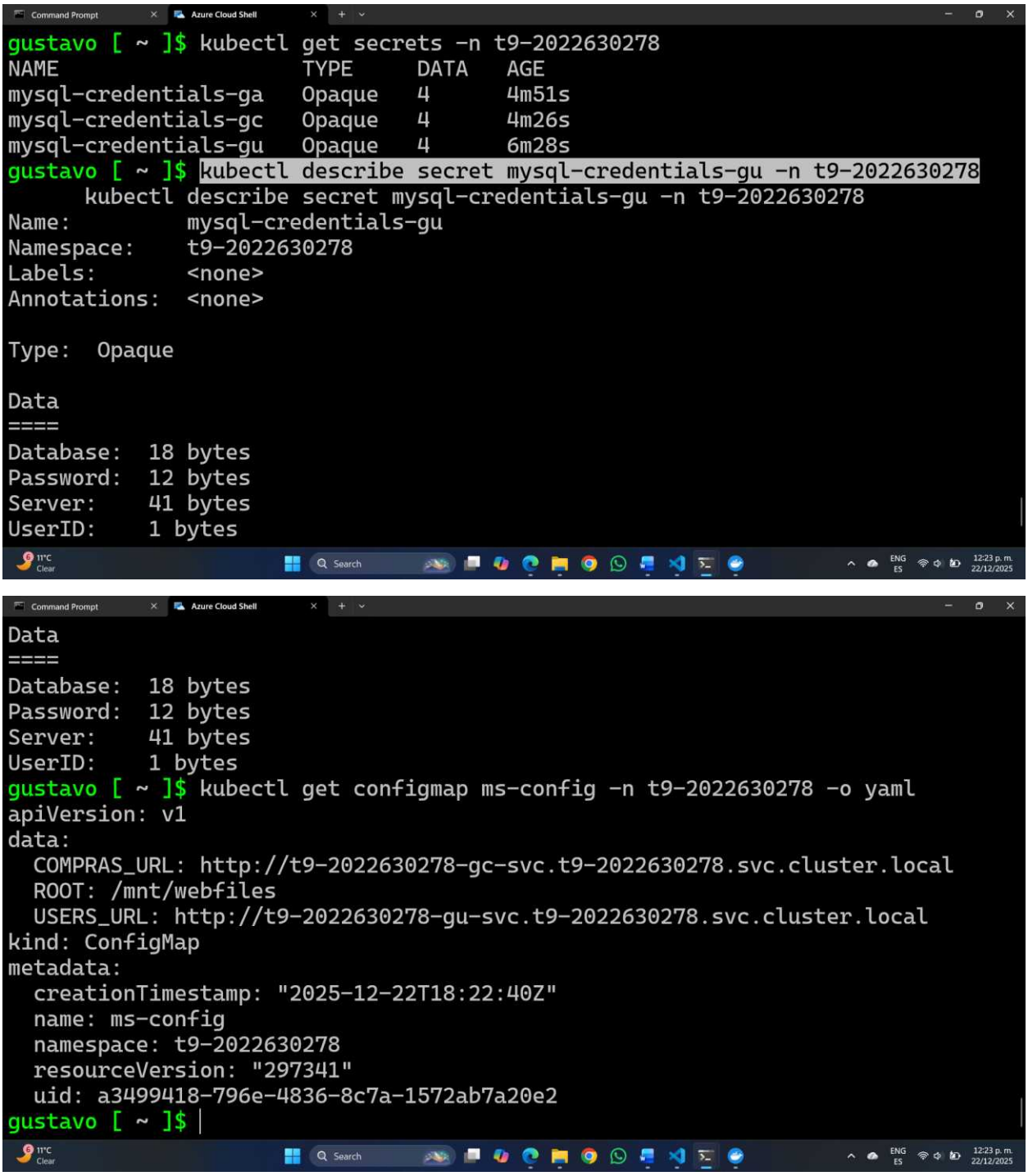


Figura 10.10 ConfigMaps y Secrets del namespace del proyecto con variables de entorno aplicadas

8.1 Crear PV y PVC para Azure Files (front-end)

- Se realizaron los Portal > Storage account > t92022630278sa > Access keys > copia la key1
- Cloud Shell:
    - kubectl create secret generic azure-file-secret -n t9-2022630278 --from-literal=azurestorageaccountname=t92022630278sa --from-literal=azurestorageaccountkey=<KEY1>

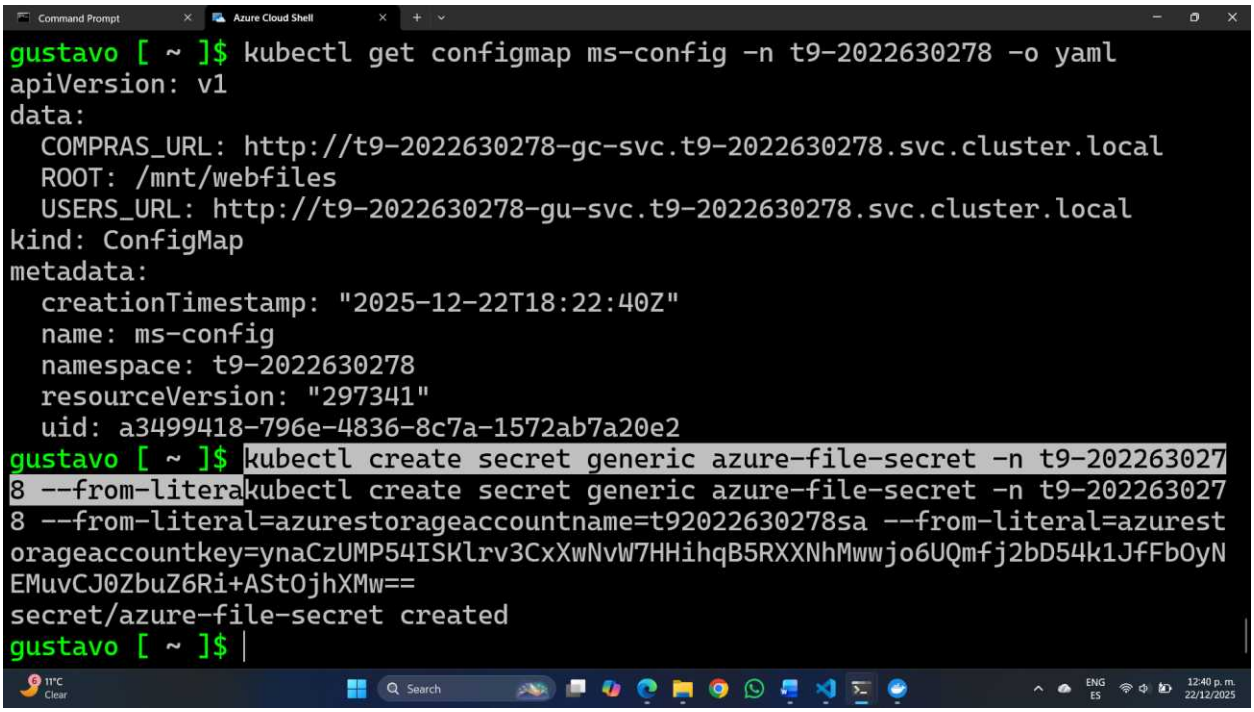
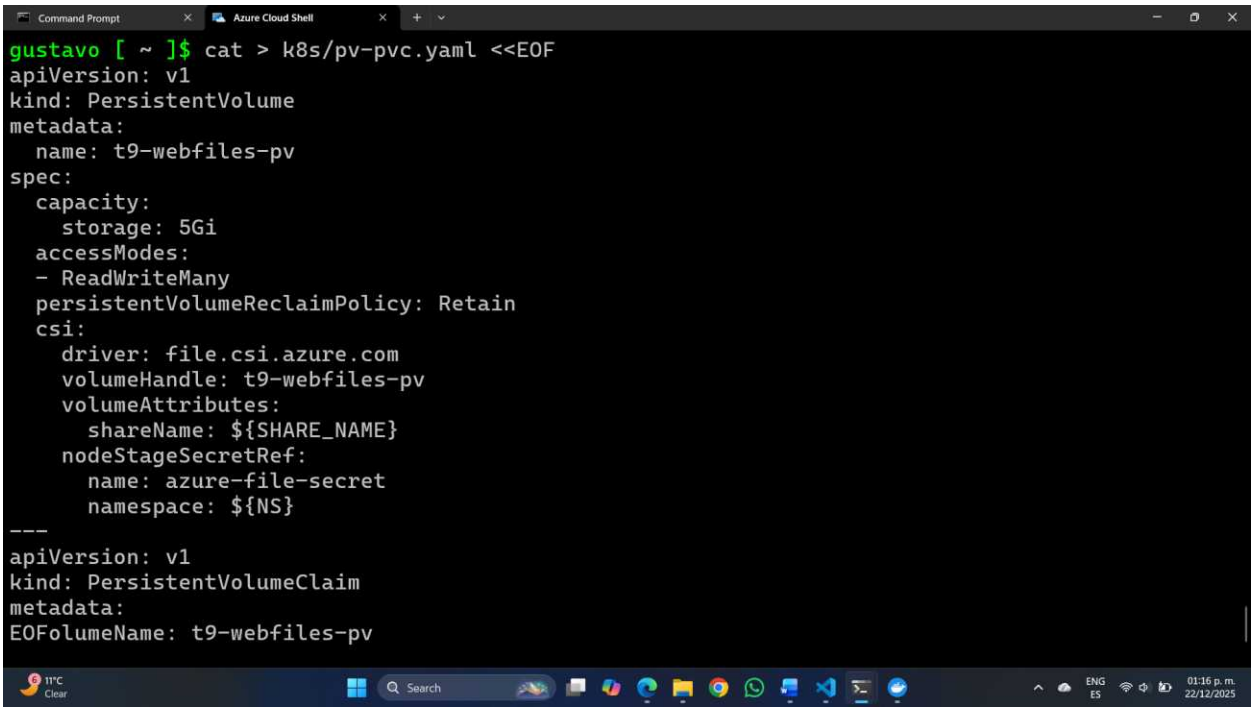
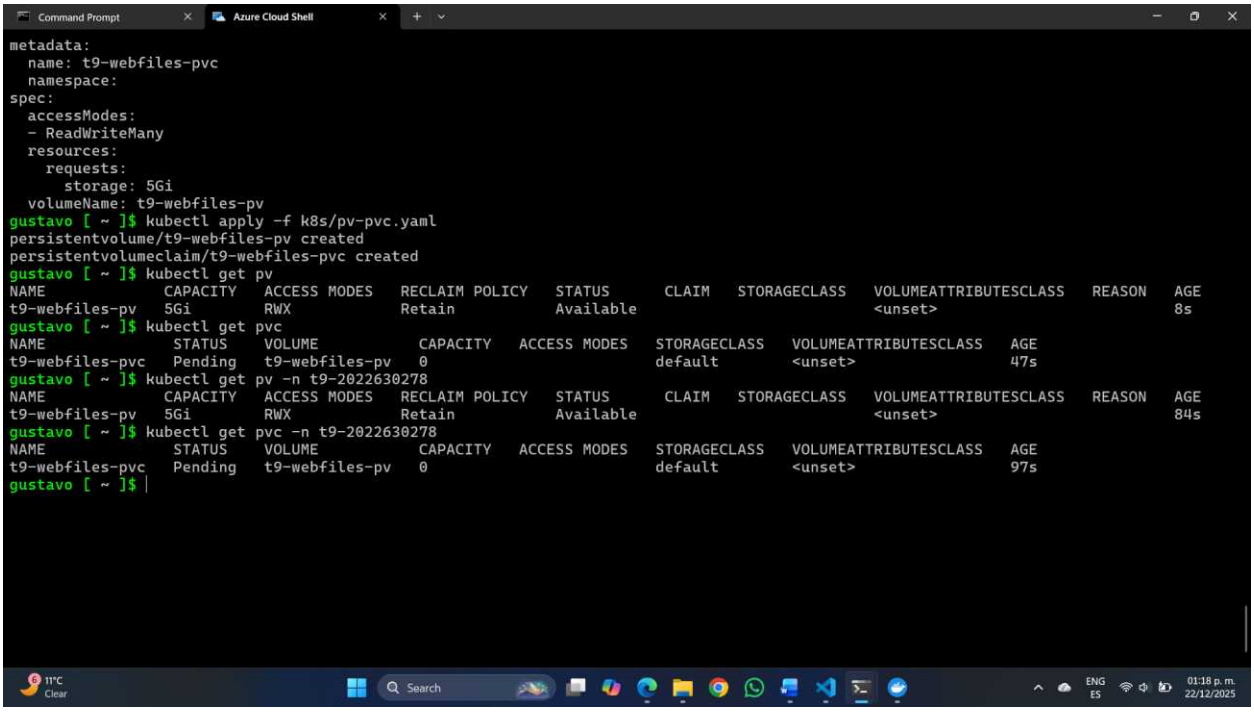


Figura 10.11 Creación del secreto para la llave

2. Aplica PV/PVC:


Command Prompt
Azure Cloud Shell
gustavo [~]$ cat > k8s/pv-pvc.yaml <<EOF
apiVersion: v1
kind: PersistentVolume
metadata:
name: t9-webfiles-pv
spec:
capacity:
storage: 5Gi
accessModes:
- ReadWriteMany
persistentVolumeReclaimPolicy: Retain
csi:
driver: file.csi.azure.com
volumeHandle: t9-webfiles-pv
volumeAttributes:
shareName: ${SHARE_NAME}
nodeStageSecretRef:
name: azure-file-secret
namespace: ${NS}
---
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
EOFolumeName: t9-webfiles-pv
11°C
Clear
Search
ENG
ES
01:16 p. m.
22/12/2025


Command Prompt
Azure Cloud Shell
metadata:
name: t9-webfiles-pvc
namespace:
spec:
accessModes:
- ReadWriteMany
resources:
requests:
storage: 5Gi
volumeName: t9-webfiles-pv
gustavo [~]$ kubectl apply -f k8s/pv-pvc.yaml
persistentvolume/t9-webfiles-pv created
persistentvolumeclaim/t9-webfiles-pvc created
gustavo [~]$ kubectl get pv
NAME CAPACITY ACCESS MODES RECLAIM POLICY STATUS CLAIM STORAGECLASS VOLUMEATTRIBUTESCLASS REASON AGE
t9-webfiles-pv 5Gi RWX Retain Available <unset> 8s
gustavo [~]$ kubectl get pvc
NAME STATUS VOLUME CAPACITY ACCESS MODES STORAGECLASS VOLUMEATTRIBUTESCLASS AGE
t9-webfiles-pvc Pending t9-webfiles-pv 0 default <unset> 47s
gustavo [~]$ kubectl get pv -n t9-2022630278
NAME CAPACITY ACCESS MODES RECLAIM POLICY STATUS CLAIM STORAGECLASS VOLUMEATTRIBUTESCLASS REASON AGE
t9-webfiles-pv 5Gi RWX Retain Available <unset> 84s
gustavo [~]$ kubectl get pvc -n t9-2022630278
NAME STATUS VOLUME CAPACITY ACCESS MODES STORAGECLASS VOLUMEATTRIBUTESCLASS AGE
t9-webfiles-pvc Pending t9-webfiles-pv 0 default <unset> 97s
gustavo [~]$
11°C
Clear
Search
ENG
ES
01:18 p. m.
22/12/2025

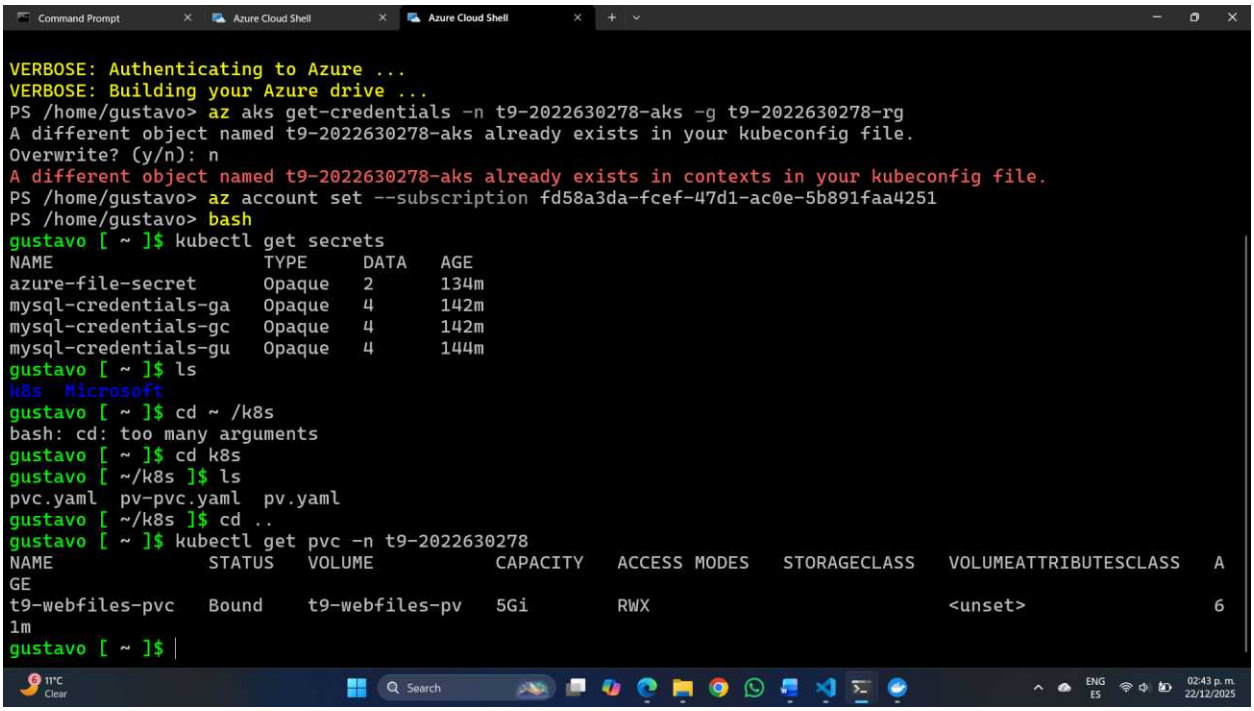


Figura 10.12 virificacion de estatus de los yaml

4. Montar el PVC en el microservicio “Servidor web”

- En el Deployment del servicio web (t9-2022630278-sw), monta el PVC y usa ROOT=/mnt/webfiles. Si ya tienes tu manifiesto, revisa que tenga esto: