



kubernetes

Kubernetes: Demo ConfigMap

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➤ Creating ConfigMaps from Files:

➤ Create configmap File first.

➤ Execute Command:

```
kubectl create configmap <Config-map-Name> --from-  
file=<FilePath>
```

➤ Describe Config Map:

```
kubectl describe configmap <Config-map-Name>
```

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- Create Config Map from Literal.

```
kubectl create configmap <config-map-Name> --from-literal=font.size=14px --from-literal=color.default=green
```

- Get the Detailed Description of Config-map.

```
kubectl get configmap <config-map-Name> -o yaml/json
```

- Get the Detailed Description of Config-map.

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- Creating ConfigMaps from Manifest File Files:
- Create configmap Manifest File first.
- Execute Command:
`kubectl create configmap -f file_name`

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- Use Config Map in Containers.
- Expose configuration data in the container's environmental variables:
Create Manifest First.
- Execute the Manifest file.
- Print and verify the Env Variable configured using the manifest and config map.

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- User can use the POSIX environmental variables and expose them to the pod using **envFrom** field of the spec.
- Create YAML file and execute the config-map.
- Create pod to use the new configmap.
- Execute the Pod and verify the changes.

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- In case if you are using **envFrom** instead of **env** to create environmental variables in the container, the environmental names will be created from the ConfigMap's keys. If a **ConfigMap** key has invalid environment variable name, it will be skipped but the pod will be allowed to start.
- POSIX variables consist solely of uppercase letters, digits, and the '_' (underscore) from the characters defined in Portable Character Set and do not begin with a digit.

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- Use ConfigMap in Containers Volumes.
- This option is useful when you want to populate configuration files inside the container with configuration key-value pairs defined in your **ConfigMap** .
- Create POD manifest File.
- Execute the Pod Manifest and verify the configuration in volumes.

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, writing the words 'Thank you!' in a cursive script on a white surface. The hand is positioned on the right side of the frame, with the fingers gripping the marker. The text is written in a dark, fluid cursive style. The background is plain white.

See you in next lecture ...