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| **DOCUMENT RULES:** | |
| **Task Number / Name:** | **CloudNative & Crossplane** |
| **Task name & column name should be written:** | **Bold (CTRL+B)** |
| **Commands should be written in the after # sign:** | *Italic (CTRL+I) #hostname* |
| **Output photo should be cropped or compressed:**  **Photo could be more than one:**  **If you need extra lines, add the line next after it:** | ***Description photo should be with title bar (CTRL + I + B)*** |
| **All other text should be written:** | Standard |
| **Font name and text size:** | Calibri and 9 |
| **Group name:** | Dev\_ops\_ |
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| 1.K8S-Configuration |  |
| Kubernetes natively supports 2 resources geared towards storing configuration consumed by pods. Both configuration types required data to be represented in a *key:value* pair format.   * *Config Maps*: use to store non-confidential data * *Secrets*: use to store confidential data (tokens, SSH keys, passwords, certificates, etc)   Config Maps  k apply -f <https://raw.githubusercontent.com/Piotr1215/dca-exercises/master/k8s/configuration/1-create-configmap.yaml> |  |
| kubectl describe po $POD | grep Volumes: -A 9 |  |
| kubectl exec -it $POD – sh  cd /etc/foo ; ls ; cat api.properties ; cat deployment\_env ; echo"" |  |
| apply -f <https://raw.githubusercontent.com/Piotr1215/dca-exercises/master/k8s/configuration/3-create-secret-encoded.yaml> |  |
| k apply -f <https://raw.githubusercontent.com/Piotr1215/dca-exercises/master/k8s/configuration/5-create-deployment-secret.yaml> |  |
| k get secret  k describe secrets mysecret-encoded |  |
| export POD=$(kubectl get pods -n default | grep "nginx-test" | awk '{print $1}')  kubectl describe po $POD | grep Volumes: -A 9 |  |
| k exec -it $POD – sh  cd /etc/foo/  cat password  echo "" |  |
| kubectl get secrets mysecret-encoded -n default -o jsonpath='{@.data.password}'| base64 --decode && echo |  |
| k apply -f <https://raw.githubusercontent.com/Piotr1215/dca-exercises/master/k8s/configuration/1-create-configmap.yaml> |  |
| k apply -f <https://raw.githubusercontent.com/Piotr1215/dca-exercises/master/k8s/configuration/4-Create-deployment.yaml> |  |
| export POD=$(kubectl get pods -n default | grep "nginx-test" | awk '{print $1}')  k exec -it $POD – sh  cd /etc/foo/  cat api.properties  cat deployment\_env  echo "" |  |
| K8S Deployments |  |
| scp -pr .kube [root@node01:/root/.kube](mailto:root@node01:/root/.kube) |  |
| kubectl wait node --all --for=condition=Ready --timeout=3m |  |
| kubectl get pods -n kube-system |  |
| alias k=kubectl  kubectl cluster-info  kubectl version –short |  |