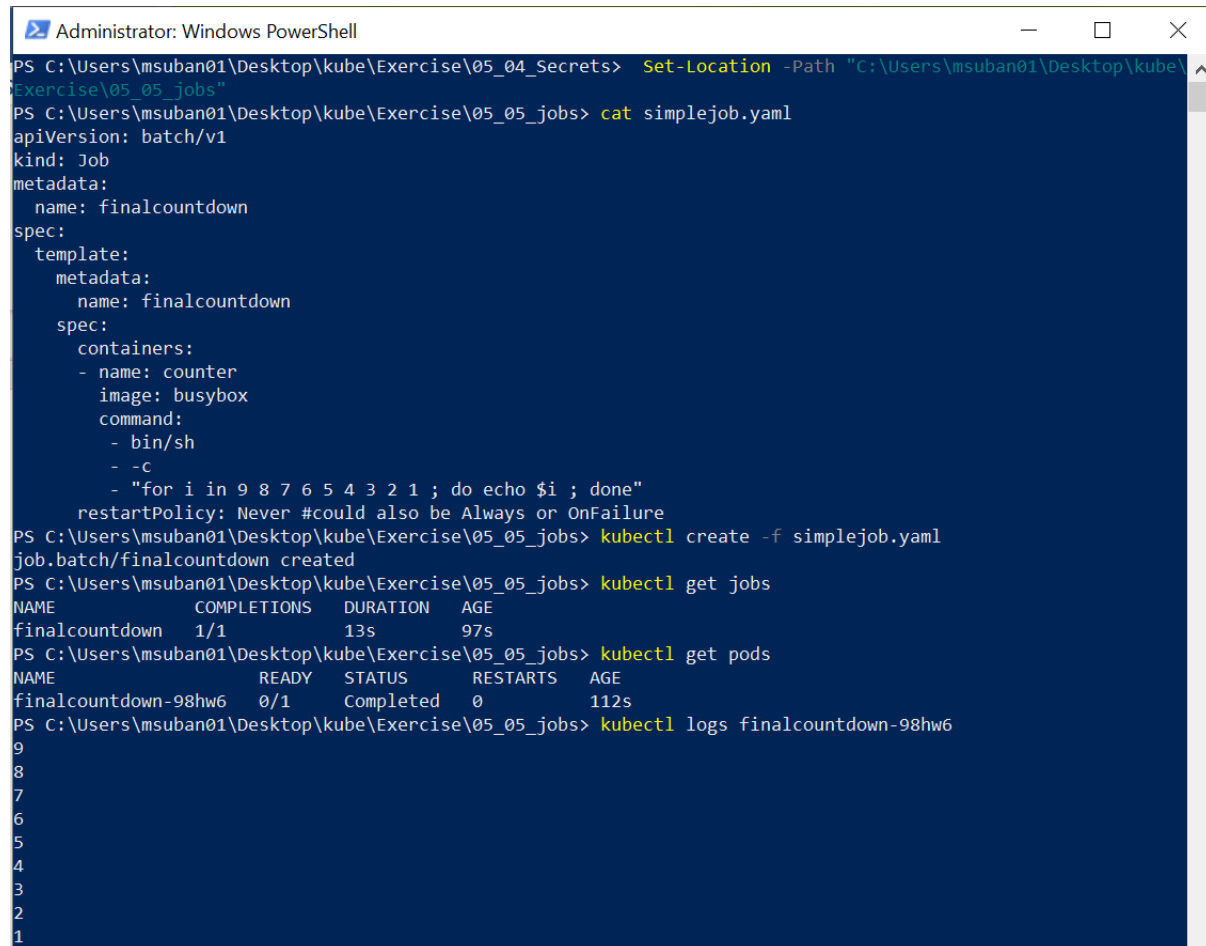


Running jobs

Jobs

Jobs are a construct that run a pod once and then stop. However, unlike pods and deployments, the output of the job is kept around until you decide to remove it.



```
Administrator: Windows PowerShell
PS C:\Users\msuban01\Desktop\kube\Exercise\05_04_Secrets> Set-Location -Path "C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs"
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> cat simplejob.yaml
apiVersion: batch/v1
kind: Job
metadata:
  name: finalcountdown
spec:
  template:
    metadata:
      name: finalcountdown
    spec:
      containers:
      - name: counter
        image: busybox
        command:
        - bin/sh
        - -c
        - "for i in 9 8 7 6 5 4 3 2 1 ; do echo $i ; done"
      restartPolicy: Never #could also be Always or OnFailure
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl create -f simplejob.yaml
job.batch/finalcountdown created
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl get jobs
NAME                COMPLETIONS  DURATION  AGE
finalcountdown      1/1          13s       97s
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl get pods
NAME                READY  STATUS   RESTARTS  AGE
finalcountdown-98hw6 0/1    Completed 0          112s
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl logs finalcountdown-98hw6
9
8
7
6
5
4
3
2
1
```

Crons

crons are like jobs, however, they can run periodically. So, I have a cron here, it's called cronjob.yaml. It's still similar to what we had before, all it's doing here is putting out the date and then echoing "Hello from your kubernetes cluster". Restart policy: OnFailure and-- So this also has a schedule, in this case it runs every minute.

>In the cronjob, we're can see hellocron, on the schedule, Suspend as false. This just means that it doesn't ever suspend and just always keep running it.

>To stop a cronjob change suspend to true using: Kubectl edit cronjobs/[cron name].

Administrator: Windows PowerShell

```

PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> cat cronjob.yaml
apiVersion: batch/v1beta1
kind: CronJob
  metadata:
    name: hellocron
  spec:
    schedule: "*/1 * * * *" #Runs every minute (cron syntax) or @hourly.

jobTemplate:
  spec:
    template:
      spec:
        containers:
          - name: hellocron
            image: busybox
            args:
              - /bin/sh
              - -c
              - date; echo Hello from your Kubernetes cluster
            restartPolicy: OnFailure #could also be Always or Never
        suspend: false #Set to true if you want to suspend in the future
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl create -f cronjob.yaml
Warning: batch/v1beta1 CronJob is deprecated in v1.21+, unavailable in v1.25+; use batch/v1 CronJob
cronjob.batch/hellocron created
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> get cronjob
get : The term 'get' is not recognized as the name of a cmdlet, function, script file, or operable program.
Check the spelling of the name, or if a path was included, verify that the path is correct and try again.

At line:1 char:1
+ get cronjob
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (get:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl get cronjob
NAME          SCHEDULE      SUSPEND   ACTIVE   LAST SCHEDULE   AGE
hellocron     */1 * * * *   False    0        45s              58s
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl get cronjob
NAME          SCHEDULE      SUSPEND   ACTIVE   LAST SCHEDULE   AGE
hellocron     */1 * * * *   False    1        5s              78s
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl get jobs
NAME                COMPLETIONS   DURATION   AGE
finalcountdown      1/1           13s        8m58s
hellocron-27426318  1/1           6s         84s
hellocron-27426319  1/1           6s         24s
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl get jobs
NAME                COMPLETIONS   DURATION   AGE
finalcountdown      1/1           13s        9m13s
hellocron-27426318  1/1           6s         99s
hellocron-27426319  1/1           6s         39s
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl get cronjob
NAME          SCHEDULE      SUSPEND   ACTIVE   LAST SCHEDULE   AGE
hellocron     */1 * * * *   False    0        53s              2m6s
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl edit cronjobs/hellocro
Error from server (NotFound): cronjobs.batch "hellocro" not found
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl edit cronjobs/hellocron
cronjob.batch/hellocron edited
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl get cronjob
NAME          SCHEDULE      SUSPEND   ACTIVE   LAST SCHEDULE   AGE
hellocron     */1 * * * *   True      0        62s              4m15s
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs> kubectl get jobs
NAME                COMPLETIONS   DURATION   AGE
finalcountdown      1/1           13s        12m
hellocron-27426319  1/1           6s         4m13s
hellocron-27426320  1/1           6s         3m13s
hellocron-27426321  1/1           7s         2m13s
PS C:\Users\msuban01\Desktop\kube\Exercise\05_05_jobs>

```