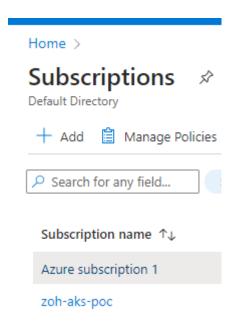
### Use-Case:

Migrating PVC's from One Subscription to Another Subscription(In this POC/Demo, Tenant is same for both subscriptions)

### Demo:

In this demo, I will show/describe how we can migrate PVC's within subscriptions

As shown below, I've two subscriptions:



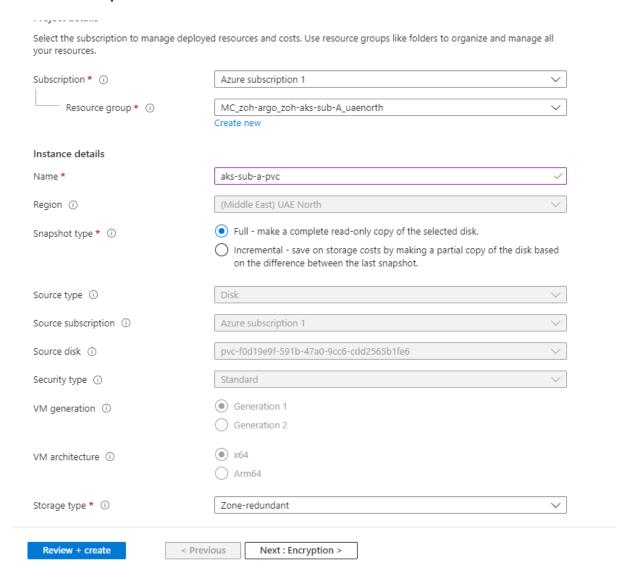
In Azure subscription 1, zoh-aks-sub-A AKS Cluster. We have MongoDB pod running with PVC. I've added few text files, so that we can validate it after migrating it to another subscription AKS Cluster.

```
ik [ ~ ]$ kubectl get pods
                                                             READY
                                                                      STATUS
                                                                                  RESTARTS
                                                                                               ΔGF
zoh-aks-subscription-a-mongodb-6cb8756679-zsqb5
                                                            1/1
                                                                      Running
shaik [ ~ ]$ kubectl get pvc
                                        STATUS
                                                                                                                                       STORAGECLASS
                                                                                                       CAPACITY
                                                                                                                    ACCESS MODES
 oh-aks-subscription-a-mongodb Bound pvc-f0d19e9f-591b-47a0-9cc6-cdd2565b1fe6 :
haik [ ~ ]$ kubectl exec -it zoh-aks-subscription-a-mongodb-6cb8756679-zsqb5 -- bash
zoh-aks-subscription-a-mongodb
I have no name!@zoh-aks-subscription-a-mongodb-6cb8756679-zsqb5:/$ cd bitnami/mongodb
I have no name!@zoh-aks-subscription-a-mongodb-6cb8756679-zsqb5:/bitnami/mongodb$ ls -ltr
total 20
             2 root 1001 16384 May 1 13:18 lost+found
       sr-x 3 1001 1001 4096 May
                                         1 13:18 data
             1 1001 1001
                                0 May
                                         1 13:22 zoh-testfile-1.txt
             1 1001 1001
                                0 May
                                         1 13:22 zoh-testfile-2.txt
                                0 May
                                         1 13:22 zoh-testfile-3.txt
             1 1001 1001
                                0 May
             1 1001 1001
                                        1 13:22 zoh-testfile-4.txt
                                         1 13:22 zoh-testfile-5.txt
             1 1001 1001
        no name!@zoh-aks-subscription-a-mongodb-6cb8756679-zsqb5:/bitnami/mongodb$ []
```

Now let's create a snaphost of that PVC.

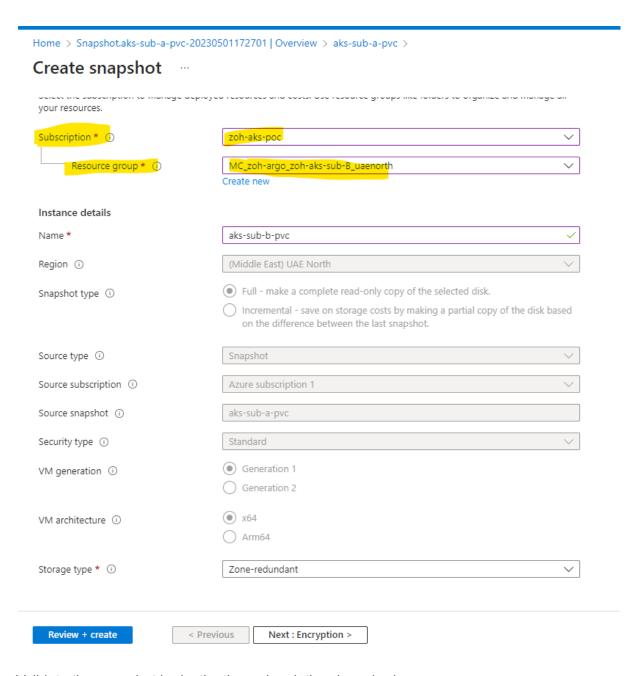
Home > Disks > pvc-f0d19e9f-591b-47a0-9cc6-cdd2565b1fe6 >

# Create snapshot

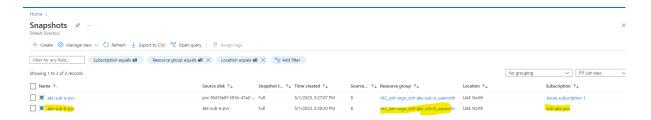


Now let's move the snapshot to another subscription(i.e zoh-aks-poc)

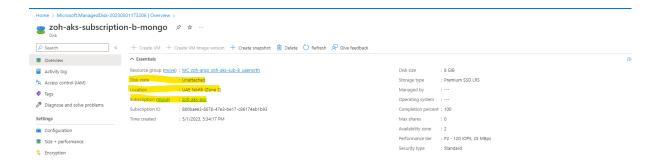
Make sure to select destination subscription and the correct resource group.



Validate the snapshot in destination subscription, i.e zoh-aks-poc



Now it's time to create a Disk from that snapshot.



Connect to destination cluster and create Storage Class, PV and PVC.



#### Note:

- 1. Ensure disk and node hosting the pod are in the same zone (or)
- 2. Use zone-redundant storage (ZRS) disks

Now we have Storage Class, PV and PVC ready in destination AKS Cluster. Let's deploy and validate the data.

```
shaik [ ~ ]$ kubectl get pods
                                                READY
                                                        STATUS
                                                                  RESTARTS
                                                                            AGE
zoh-aks-subscription-b-mongodb-5596ffdc98-g594x
                                                1/1
                                                        Running
                                                                  0
                                                                            73s
shaik [ ~ ]$ kubectl exec -it zoh-aks-subscription-b-mongodb-5596ffdc98-g594x -- bash
I have no name!@zoh-aks-subscription-b-mongodb-5596ffdc98-g594x:/$ df -h
Filesystem
               Size Used Avail Use% Mounted on
overlay
               124G
                      22G 102G 18% /
                                 0% /dev
tmpfs
               64M
                      0
                          64M
/dev/sdc
               7.8G 301M 7.5G
                                 4% /bitnami/mongodb
                      22G 102G 18% /etc/hosts
/dev/root
               124G
shm
               64M
                      0 64M
                                0% /dev/shm
                      12K 4.5G
tmpfs
               4.5G
                                 1% /run/secrets/kubernetes.io/serviceaccount
                     0 3.4G
tmpfs
               3.4G
                                 0% /proc/acpi
               3.4G
                       0 3.4G
                                 0% /proc/scsi
tmpfs
                       0 3.4G
                                 0% /sys/firmware
               3.4G
tmpfs
I have no name!@zoh-aks-subscription-b-mongodb-5596ffdc98-g594x:/$ cd /bitnami/mongodb/
I have no name!@zoh-aks-subscription-b-mongodb-5596ffdc98-g594x:/bitnami/mongodb$ ls -ltr
total 20
drwxrws--- 2 root 1001 16384 May 1 13:18 lost+found
drwxrwsr-x 3 1001 1001 4096 May 1 13:18 data
-rw-rw-r-- 1 1001 1001
                         0 May 1 13:22 zoh-testfile-1.txt
-rw-rw-r-- 1 1001 1001
                         0 May 1 13:22 zoh-testfile-2.txt
-rw-rw-r-- 1 1001 1001
                         0 May 1 13:22 zoh-testfile-3.txt
-rw-rw-r-- 1 1001 1001
                          0 May 1 13:22 zoh-testfile-4.txt
-rw-rw-r-- 1 1001 1001
                          0 May 1 13:22 zoh-testfile-5.txt
```

As you can see, whatever the files I've created in In Azure subscription 1, zoh-aks-sub-A AKS Cluster. The same data is available in another subscription, zoh-aks-sub-B AKS Cluster.

## Recap:

- 1. Install MongoDB in Azure subscription 1 ---> AKS
- 2. Create a Snapshot from the Azure Disk in Azure subscription 1
- 3. Move Snapshot from Azure subscription 1 to zoh-aks-poc
- 4. Create a Disk from the Snapshot of zoh-aks-poc
- 5. While creating Disk, make sure to select zone. Otherwise it won't work. As the VM/PVC, should be on same Zone.
- 5. Create a PV and PVC in zoh-aks-poc---> AKS (Use ZRS Storage Class)
- 6. Install MongoDB in zoh-aks-poc---> AKS
- 7. Exec into the pod and validate the data is availble or not.

**Important Note**: Kindly test this use-case in your sandbox/lower environment(Before deploying in Production). If it's working as expected, then promote it accordingly.