## S3 for VMware Snapshot Storage and SRM Backups

This is just an S3 private bucket deployed to store/backup any VMware snapshots fronted by an [S3 Access Point](https://aws.amazon.com/s3/features/access-points/). Along with the bucket and access point its necessary to define either the bucket policy and/or access point policy. Furthermore, these policies must be as restrictive or less than the policies set for the organization and accounts otherwise the automation to deploy them will fail.

The deployment and configuration is handled by terraform and should be easily extended if the need arises for more buckets. Current state has this bucket in the SharedSvc account.

The files that create this bucket are located currently here:   
<https://github.com/amtrust/AWSCloudAutomation/blob/master/tf/amt-network-setup/s3-buckets.tf>

The template consists of 6 elements:

* KMS Key (for encryption)
* KMS Key alias (to give our key a name, ease of use)
* S3 Bucket
* S3 Bucket Public Access Block (makes it private)
* S3 Access Point
* Access Point Policy file (.json)

Access to the bucket using the endpoint has to be through the [s3api](https://docs.aws.amazon.com/cli/latest/reference/s3api/).

Below is an example for uploading a file called main.tf into the bucket folder snapshots/.

You will have to specify these params to successfully upload:

* “--profile <profile name>” – must be a profile set up locally with appropriate AWS role ARN.
* “--bucket <bucket ARN>” – obtainable from the [S3 console](https://s3.console.aws.amazon.com/s3/home?region=us-east-1)
* “--key <file destination>” – destination in the bucket
* “--body ./main.tf” – the file to upload
* “--server-side-encryption aws:kms” – the encryption used for the bucket. Enforced by policy
* “--ssekms-key-id dbea6b67-d0a4-4e71-b07e-fc19cf84ed33” – id of the kms key found through [S3 console](https://console.aws.amazon.com/kms/home?region=us-east-1#/kms/keys).
* Lastly the command is passed into jq to be able to see formatted output. This step is not required

$ aws s3api --profile sharedsvc put-object --bucket arn:aws:s3:us-east-1:207476187760:accesspoint/amt-snapshot-bucket-access-point --key snapshots/main.tf --body ./main.tf --server-side-encryption aws:kms --ssekms-key-id dbea6b67-d0a4-4e71-b07e-fc19cf84ed33 | jq

A picture containing monitor, player, holding

Description automatically generated