Change Storage Account Tier or Replication Type

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Overview

Platform:	Azure
Owner of this SOP:	Fully Managed POD A
Cloud Services:	Instance Management

Problem

- · When requesters are asking for changing the Storage Account Tier or
- When the requester ask us to change the Replication Type

After provisioning the infrastructure we can use the same pipeline we used to provision the resources to update the Storage Account details. It will not destroy the existing configuration rather it will forcefully recreate the Storage account only.

8 Note: Terraform will destroy and recreate the Storage Account for below documented conditions.

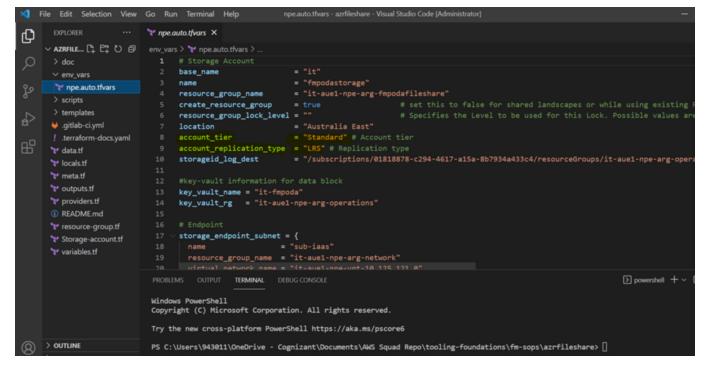
- account_tier (Required) Defines the Tier to use for this storage account. Valid options are Standard and Premium. For BlockBlobStorage and FileStorage accounts only
 Premium is valid. Changing this forces a new resource to be created.
- account_replication_type
 (Required) Defines the type of replication to use for this storage account. Valid options are LRS , GRS , RAGRS , ZRS , GZRS and RAGZRS .
 Changing this forces a new resource to be created when types LRS , GRS and RAGRS are changed to ZRS , GZRS or RAGZRS and vice versa.

tester	Reviewer
@ Asif Patel (Deactivated)	

Solution

- Log on to Gitlab and go to the respective repo.

 (eg: Storage-account.tf · main · bhp-cloudfactory / tooling-foundations / FM-Sops / Azrfileshare · GitLab)
- Clone the repo to your local machine and update the required field



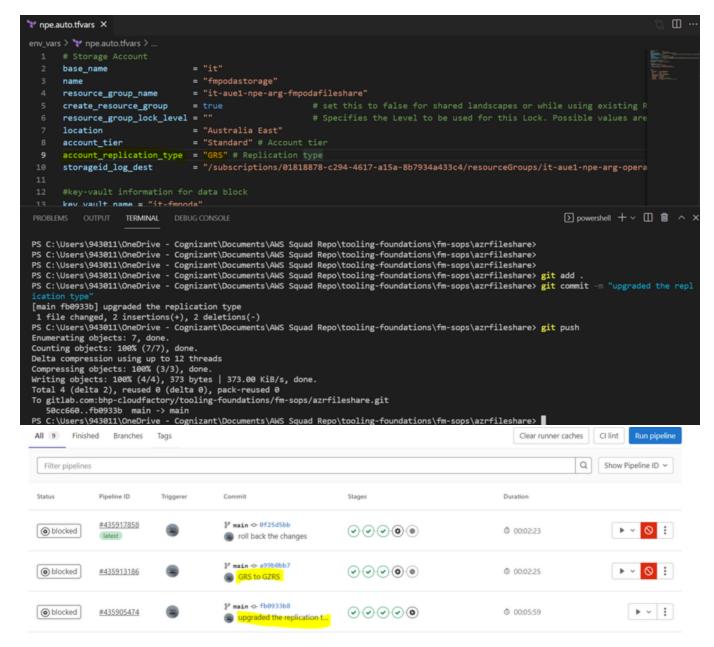
Change the Account Tier/Replication Type to the requested values and Save them. (ref highlighted section below used while testing)

Push the code to the repository again and it will trigger the pipeline.

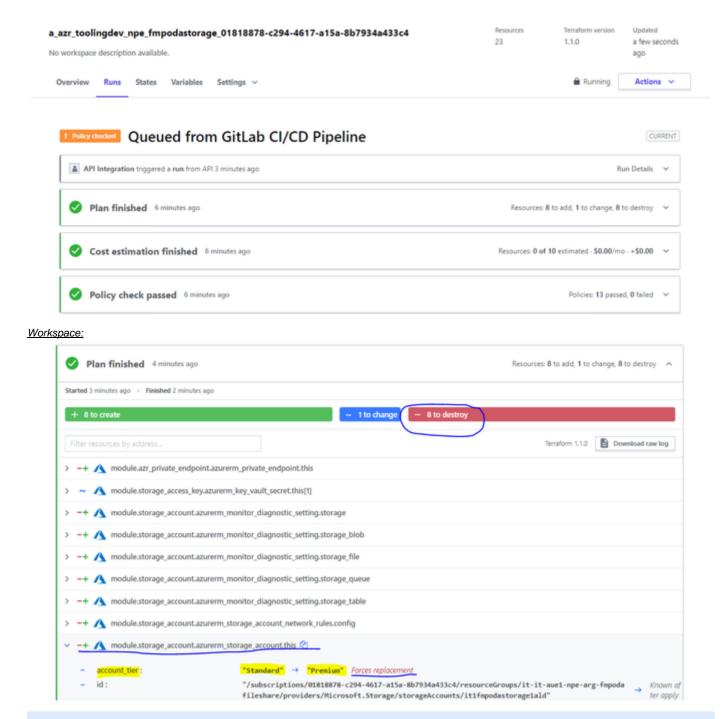
For Account Tier:

```
npe.auto.tfvars X
env_vars > 😭 npe.auto.tfvars > ...
       base_name
       name
        resource group name
         create_resource_group
                                         = true
                                                                         # set this to false for shared landscapes or while using existing R
        resource_group_lock_level = ""
        location
        account tier
                                          = "Premium" # Account tier
         account_replication_type = "LRS" # Replication type
                                        "/subscriptions/01818878-c294-4617-a15a-8b7934a433c4/resourceGroups/it-aue1-npe-arg-opera
        storageid_log_dest
        #key-vault information for data block
 PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
                                                                                                                                          PS C:\Users\943011\OneDrive - Cognizant\Documents\AWS Squad Repo\tooling-foundations\fm-sops\azrfileshare> git add .
PS C:\Users\943011\OneDrive - Cognizant\Documents\AWS Squad Repo\tooling-foundations\fm-sops\azrfileshare> git commit -m "storage account to
 [main 50cc660] storage account tier upgrade
1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\943011\OneDrive - Cognizant\Documents\AWS Squad Repo\tooling-foundations\fm-sops\azrfileshare> git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 12 threads
 Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 364 bytes | 182.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0
 To gitlab.com:bhp-cloudfactory/tooling-foundations/fm-sops/azrfileshare.git
     94c70d5..50cc660 main -> main
 PS C:\Users\943011\OneDrive - Cognizant\Documents\AWS Squad Repo\tooling-foundations\fm-sops\azrfileshare>
```

For Replication Type:

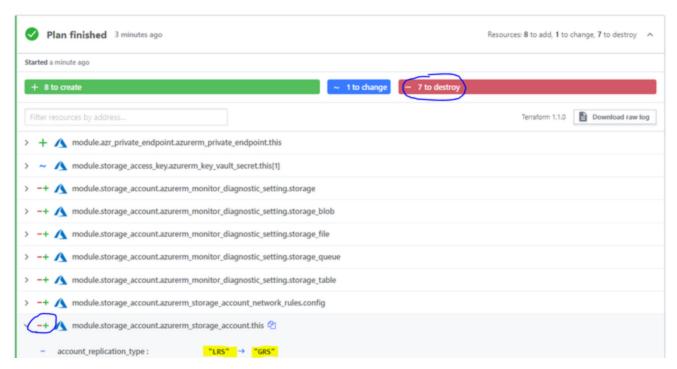


• Check the respective terraform workspace once the planning stage is completed in the git pipeline. Check the terraform plan and confirm the changes are being updated as per the request.

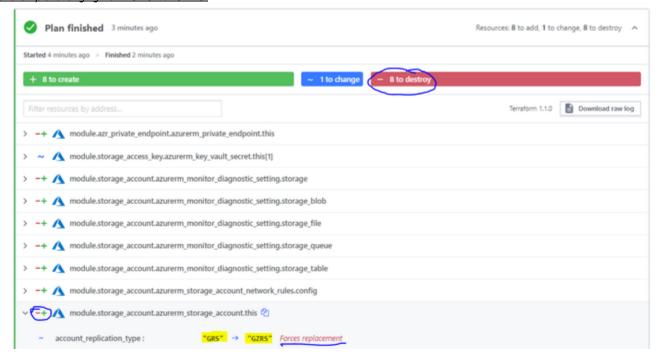


1 Changing the Replication from LRS to GRS or RAGRS will not destroy the Storage account but; if we are changing the types LRS, GRS, and RAGRS are changed to ZRS, GZRS, or RAGZRS then this forces a new Storage account to be created.

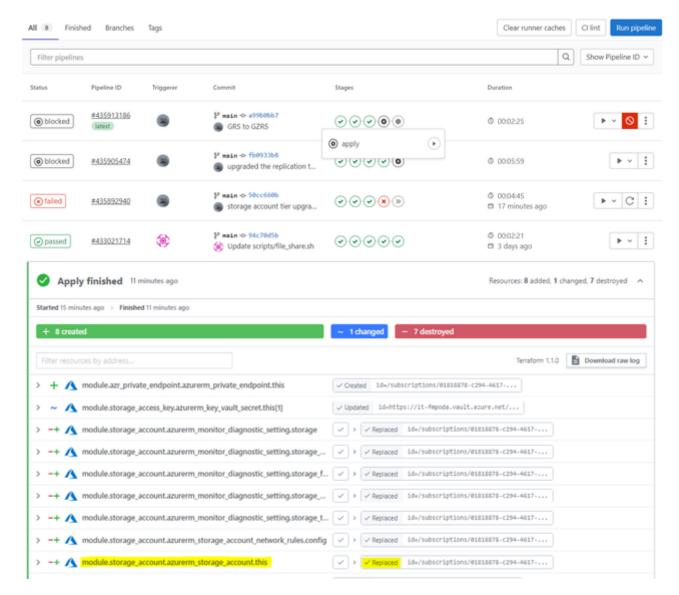
ref example: changing from "LRS" to "GRS"



ref example: changing from "GRS" to "GZRS"

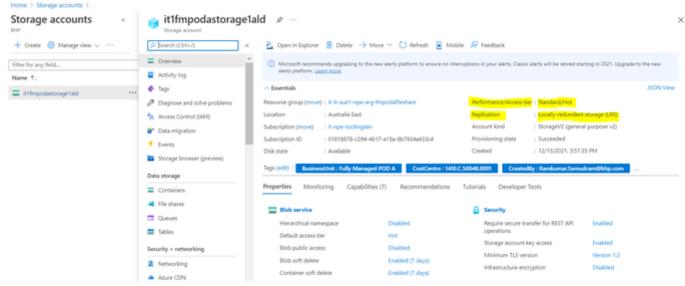


Manually run the terraform apply stage after plan verification.

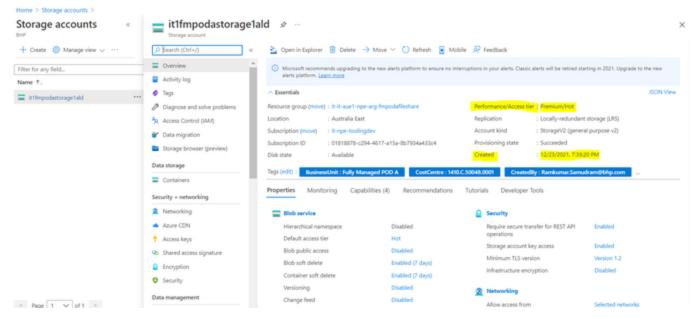


Verify the Changes in the Azure portal once terraform apply is finished.

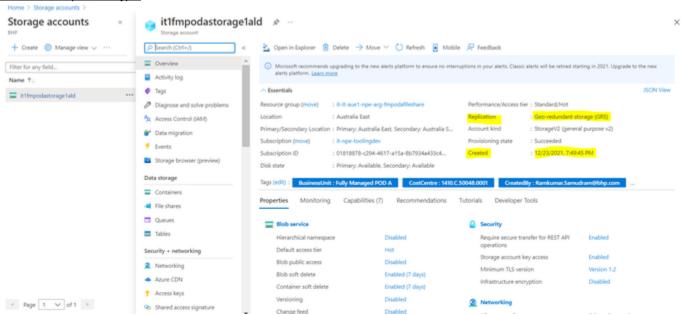
<u>Before:</u>



For Account Tier:



For Account Replication Type:



Related articles

- AWS VPC Endpoints configuration change
- Monitoring GitLab Access Audit Report
- Renewal / Upload SSL certificate for existing Application
- Update the Task memory unit
- Update the Task CPU limit