Documentation for Azure Blob Storage provisioning using Terraform

Azure Blob Storage is Microsoft's object storage solution for the cloud.
Blob Storage is optimized for storing massive amounts of unstructured data.
Unstructured data is data that doesn't adhere to a particular data model or definition, such as text or binary data.

Provisioning Steps

1. First prepare Terrraform code (which can be found inside this Repo)

2. Create a .zip file named *some-local-file.zip*

3. Run command *terraform apply*

```
> terraform apply

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  + create

Terraform will perform the following actions:
```

4. Check if plan is correct

```
# azurerm_resource_group.storage will be created
+ resource "azurerm_resource_group" "storage" {
    + id       = (known after apply)
    + location = "westeurope"
    + name     = "hubertdz-rg"
  }

# azurerm_storage_account.storage will be created
+ resource "azurerm_storage_account" "storage" {
    + access_tier                     = (known after apply)
    + account_kind                    = "StorageV2"
    + account_replication_type        = "GRS"
    + account_tier                    = "Standard"
    + allow_nested_items_to_be_public = true
    + enable_https_traffic_only       = true
    + id                              = (known after apply)
    + infrastructure_encryption_enabled = false
    + is_hns_enabled                  = false
    + large_file_share_enabled        = (known after apply)
    + location                        = "westeurope"
    + min_tls_version                 = "TLS1_2"
    + name                            = "hubertdz0strg"
    + nfsv3_enabled                   = false
    + primary_access_key              = (sensitive value)
    + primary_blob_connection_string  = (sensitive value)
    + primary_blob_endpoint           = (known after apply)
    + primary_blob_host               = (known after apply)
    + primary_connection_string       = (sensitive value)
    + primary_dfs_endpoint            = (known after apply)
    + primary_dfs_host                = (known after apply)
    + primary_file_endpoint           = (known after apply)
    + primary_file_host               = (known after apply)
    + primary_location                = (known after apply)
    + primary_queue_endpoint          = (known after apply)
    + primary_queue_host              = (known after apply)
    + primary_table_endpoint          = (known after apply)
    + primary_table_host              = (known after apply)
    + primary_web_endpoint            = (known after apply)
    + primary_web_host                = (known after apply)
    + queue_encryption_key_type       = "Service"
    + resource_group_name             = "hubertdz-rg"
    + secondary_access_key            = (sensitive value)
    + secondary_blob_connection_string = (sensitive value)
    + secondary_blob_endpoint         = (known after apply)
    + secondary_blob_host             = (known after apply)
    + secondary_connection_string     = (sensitive value)
    + secondary_dfs_endpoint          = (known after apply)
    + secondary_dfs_host              = (known after apply)
    + secondary_file_endpoint         = (known after apply)
    + secondary_file_host             = (known after apply)
    + secondary_location              = (known after apply)
    + secondary_queue_endpoint        = (known after apply)
    + secondary_queue_host            = (known after apply)
    + secondary_table_endpoint        = (known after apply)
    + secondary_table_host            = (known after apply)
    + secondary_web_endpoint          = (known after apply)
    + secondary_web_host              = (known after apply)
    + shared_access_key_enabled       = true
    + table_encryption_key_type       = "Service"
  }

# azurerm_storage_blob.storage will be created
+ resource "azurerm_storage_blob" "storage" {
    + access_tier            = (known after apply)
    + content_type           = "application/octet-stream"
    + id                     = (known after apply)
    + metadata               = (known after apply)
    + name                   = "private-blob"
    + parallelism            = 8
    + size                   = 0
    + source                 = "../some-local-file.zip"
    + storage_account_name   = "hubertdz0strg"
    + storage_container_name = "container"
    + type                   = "Block"
    + url                    = (known after apply)
  }

# azurerm_storage_container.storage will be created
+ resource "azurerm_storage_container" "storage" {
    + container_access_type   = "private"
    + has_immutability_policy = (known after apply)
    + has_legal_hold          = (known after apply)
    + id                      = (known after apply)
    + metadata                = (known after apply)
    + name                    = "container"
    + resource_manager_id     = (known after apply)
    + storage_account_name    = "hubertdz0strg"
  }
```

5. Accept the plan

```
Plan: 4 to add, 0 to change, 0 to destroy.

Changes to Outputs:
  + blob_url = (known after apply)

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

azurerm_resource_group.storage: Creating...
azurerm_resource_group.storage: Creation complete after 2s [id=/subscriptions/[redacted]resourceGroups/hubertdz-rg]
azurerm_storage_account.storage: Creating...
azurerm_storage_account.storage: Still creating... [10s elapsed]
azurerm_storage_account.storage: Still creating... [20s elapsed]
azurerm_storage_account.storage: Creation complete after 22s [id=/subscriptions[redacted]resourceGroups/hubertdz-rg/providers/Microsoft.Storage/storageAccounts/hubertdz0strg]
azurerm_storage_container.storage: Creating...
azurerm_storage_container.storage: Creation complete after 0s [id=https://hubertdz0strg.blob.core.windows.net/container]
azurerm_storage_blob.storage: Creating...
azurerm_storage_blob.storage: Creation complete after 1s [id=https://hubertdz0strg.blob.core.windows.net/container/private-blob]

Apply complete! Resources: 4 added, 0 changed, 0 destroyed.

Outputs:

blob_url = "https://hubertdz0strg.blob.core.windows.net/container/private-blob"
```

6. Check on Azure