Terraform Cloud Integrated GitOps Workflow - Concept

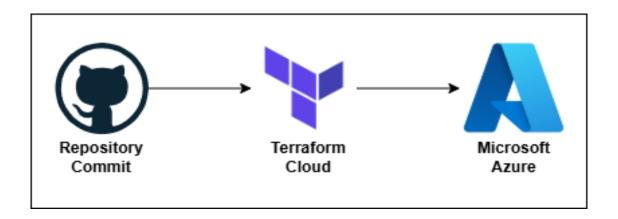
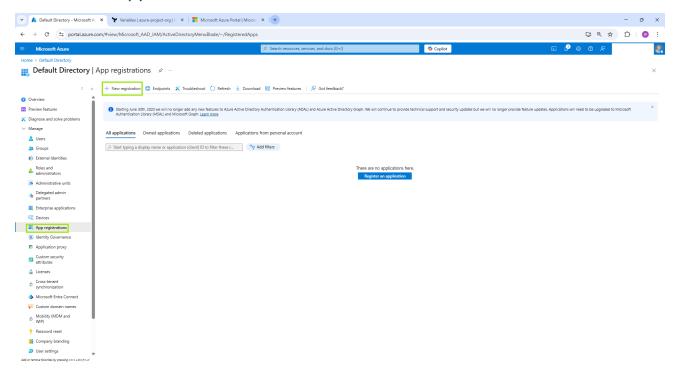


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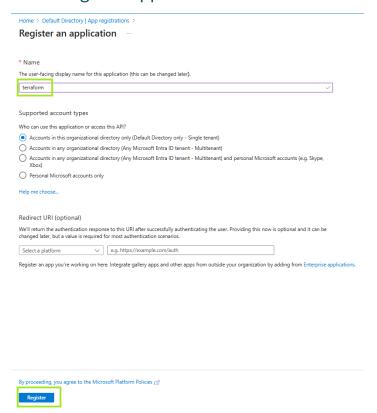
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1. Setting up Azure for Terraform

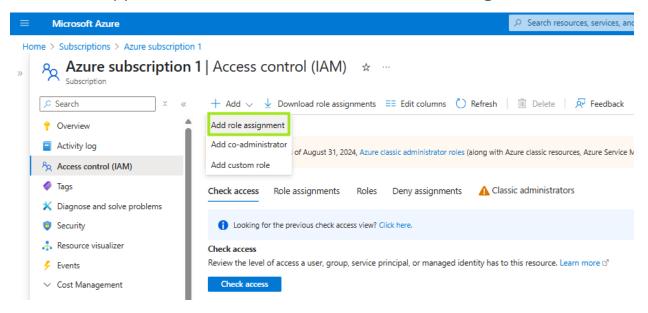
1.1 Create Application in Entra ID



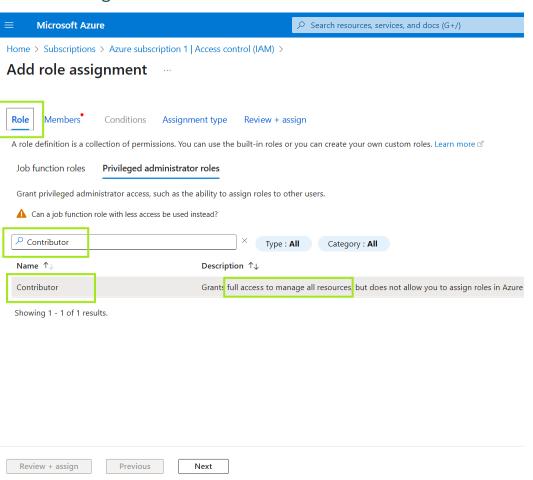
1.1.1 Register Application



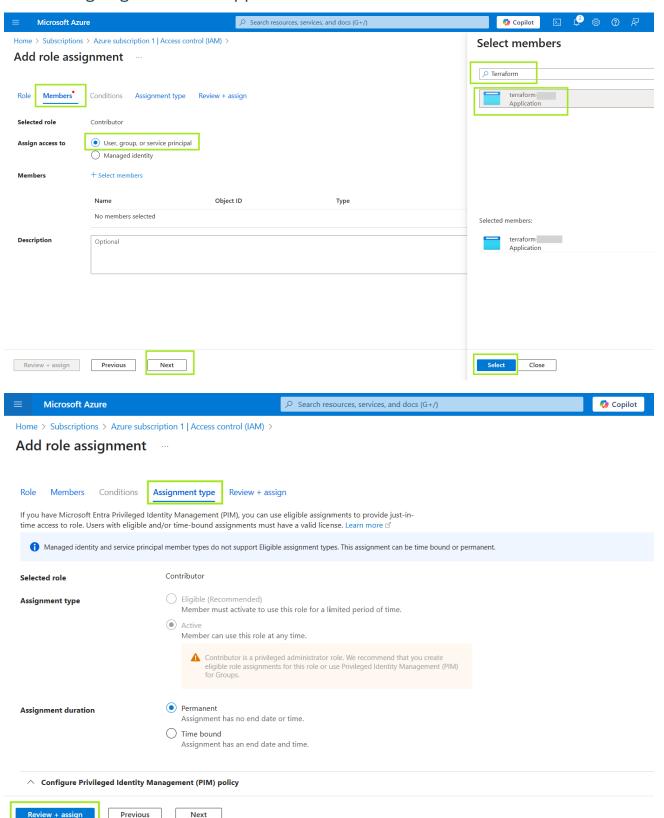
1.2 Allow Application to control Azure Resources through IAM



1.2.1 Creating Role

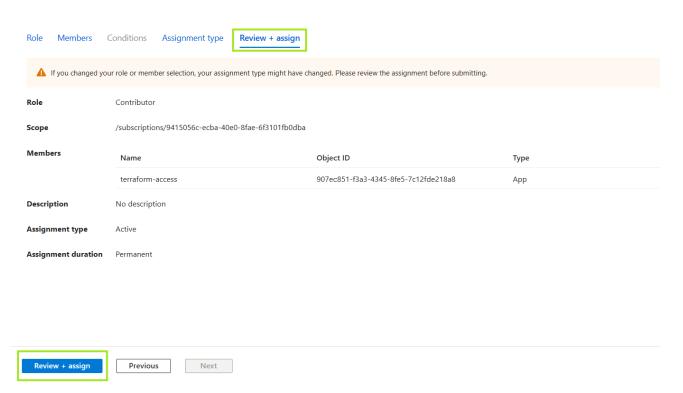


1.2.2 Assigning Role to the Application



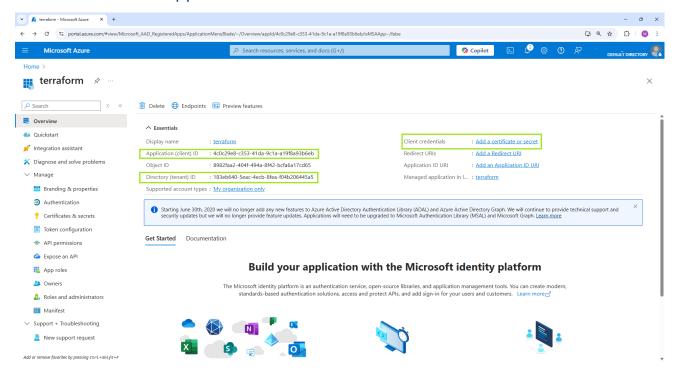
Home > Subscriptions > Azure subscription 1 | Access control (IAM) >

Add role assignment

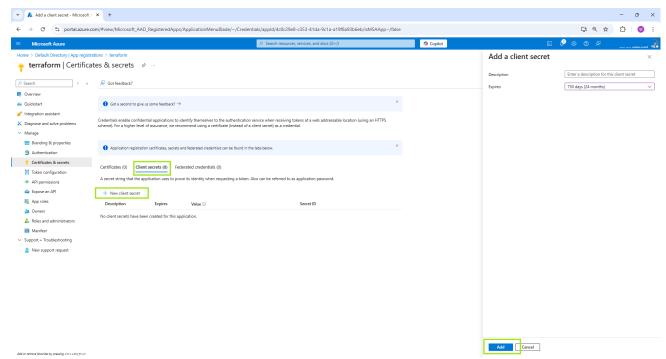


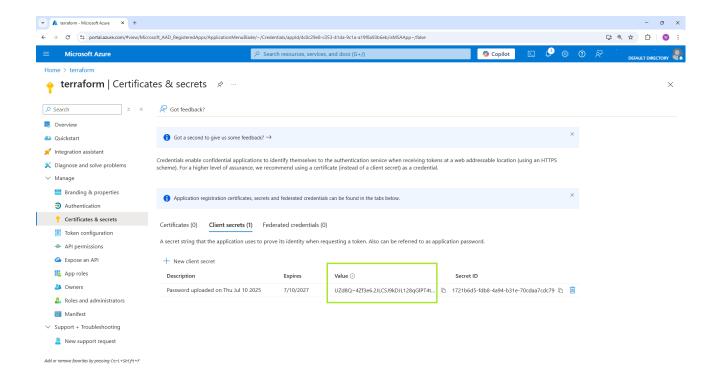
1.3 Retrieving azure env variables for use in terraform cloud

1.3.1 Attain Azure Application Env Variables



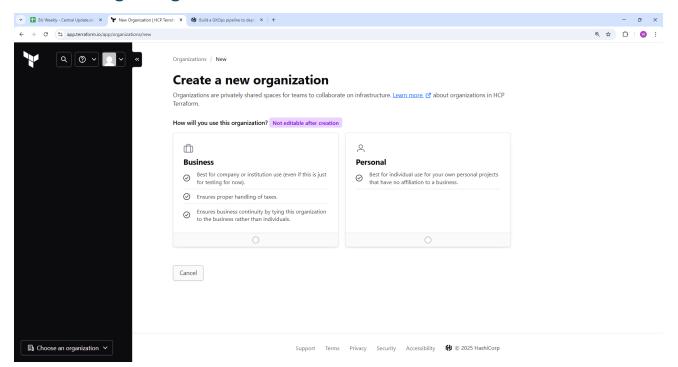
1.3.2 Attain Azure Application Env Variables (Client Secret)



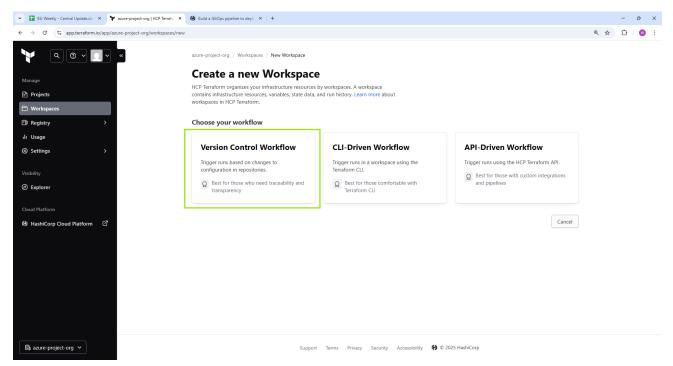


2. Creating a Version Control Workflow with Terraform Cloud

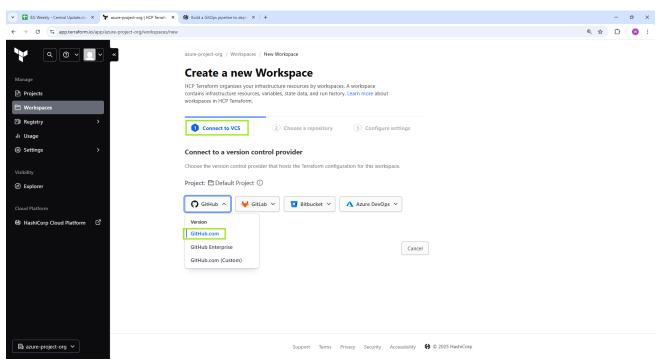
2.1 Creating an organization



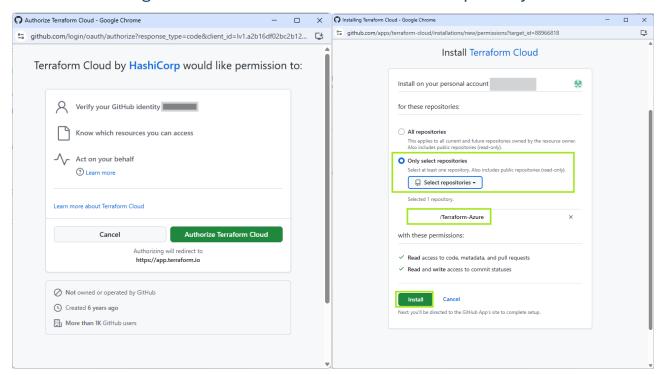
2.2 Creating a Version Control Workflow workspace



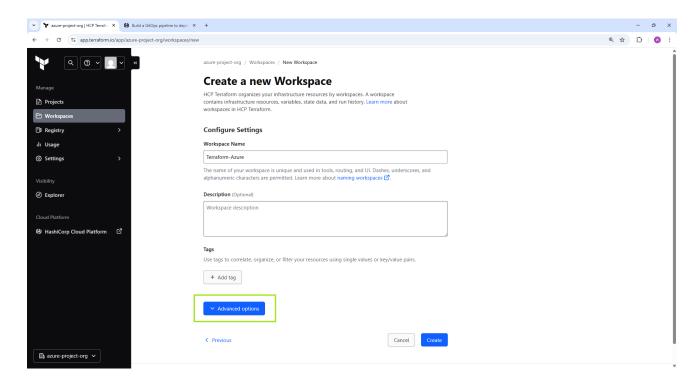
2.3 Linking workspace with GitHub (TF Cloud uses GitHub App for Auth)



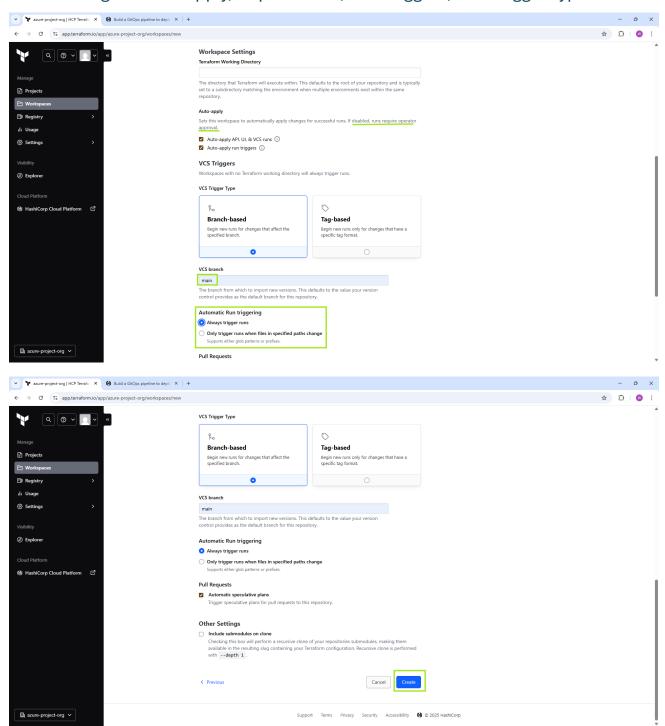
2.3.1 Authorizing Terraform Cloud to access selected Repository



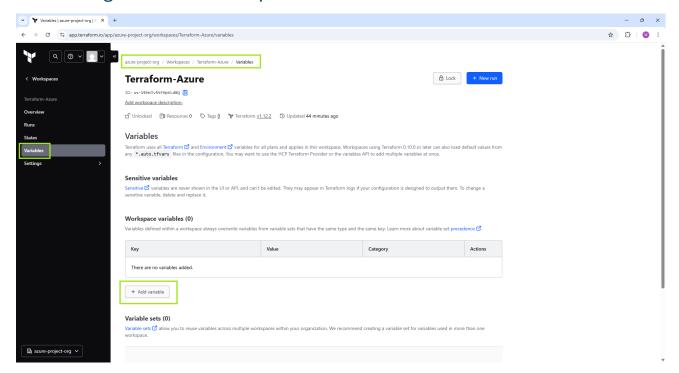
2.4 Configure workflow settings (advanced options) in workspace



2.4.1 Configure Auto-Apply, Repo Branch, Run Triggers, VCS Trigger Type etc.



2.5 Adding Terraform Workspace Environment Variables



See values in 1.3 Retrieving env variables for use in terraform cloud

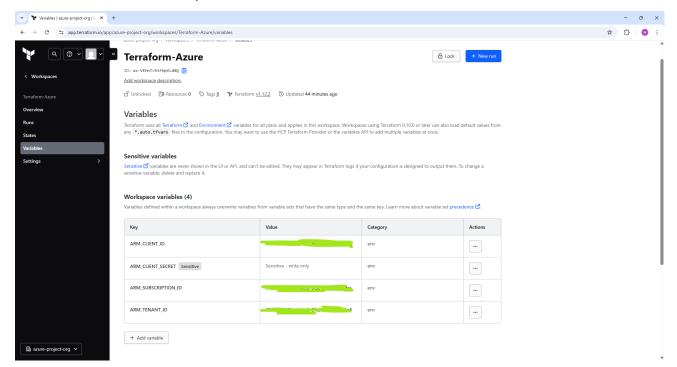
ARM_CLIENT_ID = Application (client) ID

ARM_CLIENT_SECRET = Application Client Secret Value (Mark as Sensitive)

ARM_SUBSCRIPTION_ID = Azure Subscription ID

ARM_TENANT_ID = Directory (tenant) ID

2.5.1 Terraform Workspace Environment Variables



3. Terraform VCS Workflow Illustration

3.1 Terraform Baseline Code Setup

3.2 Terraform Trigger through TF Cloud upon Commit

