



## Project Settings

Hometask

### General

Overview

Teams

Permissions

Notifications

Service hooks

Dashboards

### Boards

Project configuration

Team configuration

GitHub connections

### Pipelines

## ← My Subscription

# 1 Created Connection

Edit



Overview Usage history

### Details

Service connection type



**Azure Resource Manager**  
using service principal authentication  
[Manage service connection roles](#)  
[Manage Service Principal](#)

Creator



**Anton Nevero**  
nevero.anton@gmail.com

## 2 Terraform file downloaded from Git to AzureDevOps

Azure DevOps neveroanton / TerraformProject / Repos / Files / Terraform

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Terraform

- Environment
- src
- Terraform
  - webapp.tf
- test
  - .gitattributes
  - .gitignore
  - azure-pipelines.yml
  - netci.groovy
  - NuGet.Config
  - PartsUnlimited.sln
  - PartsUnlimited.sln.DotSettings

terraform / Terraform / webapp.tf


webapp.tf


Edit


Contents History Compare Blame


```
1 terraform {
2   required_version = ">= 0.11"
3   backend "azurerm" {
4     storage_account_name = "__terraformstorageaccount__"
5     container_name       = "terraform"
6     key                  = "terraform.tfstate"
7     access_key           = "__storagekey__"
8   }
9 }
10 provider "azurerm" {
11   features {}
12 }
13 resource "azurerm_resource_group" "dev" {
14   name     = "PULTerraform"
15   location = "West Europe"
16 }
17
18 resource "azurerm_app_service_plan" "dev" {
19   name            = "__appserviceplan__"
20   location        = "${azurerm_resource_group.dev.location}"
21   resource_group_name = "${azurerm_resource_group.dev.name}"
22
23   sku {
24     tier = "Free"
25     size = "F1"
26   }
27 }
```


### 3 CI Pipeline at work


 Azure DevOps neveroanton / TerraformProject0 / Pipelines / Terraform-CI / 20221209.1


 TerraformProject0


 Overview


 Boards


 Repos


 Pipelines


 Pipelines


 Environments


 Releases

 Library

 Task groups












 Deployment groups


 Test Plans

 Project settings

← Jobs in run #2022120...  
Terraform-CI

Jobs

▼	 Agent job 1	1m 47s
	Initialize job	3s
	Checkout Terraform...	15s
	Install .net core ...	1m 27s
	Restore	
	Build	
	Test	
	Publish	
	Copy Terraform files to...	
	Publish Artifact	
	Post-job: Checkout Terr...	

 Install .net core 2.0.0

```
732 Progress: 97% - Saving 108.72 MB of 111.59 MB
733 Progress: 97% - Saving 108.88 MB of 111.59 MB
734 Progress: 97% - Saving 109.03 MB of 111.59 MB
735 Progress: 97% - Saving 109.19 MB of 111.59 MB
736 Progress: 97% - Saving 109.34 MB of 111.59 MB
737 Progress: 98% - Saving 109.5 MB of 111.59 MB
738 Progress: 98% - Saving 109.66 MB of 111.59 MB
739 Progress: 98% - Saving 109.81 MB of 111.59 MB
740 Progress: 98% - Saving 109.97 MB of 111.59 MB
741 Progress: 98% - Saving 110.13 MB of 111.59 MB
742 Progress: 98% - Saving 110.28 MB of 111.59 MB
743 Progress: 98% - Saving 110.44 MB of 111.59 MB
744 Progress: 99% - Saving 110.59 MB of 111.59 MB
745 Progress: 99% - Saving 110.75 MB of 111.59 MB
746 Progress: 99% - Saving 110.91 MB of 111.59 MB
747 Progress: 99% - Saving 111.06 MB of 111.59 MB
748 Progress: 99% - Saving 111.22 MB of 111.59 MB
749 Progress: 99% - Saving 111.38 MB of 111.59 MB
750 Progress: 99% - Saving 111.53 MB of 111.59 MB
751 Progress: 100% - Completed download of C:\Users\VssAdministrator\AppData\Local\Temp\chocolatey\dotnetcore-
752 Download of dotnet-sdk-2.0.0-win-x64.exe (111.59 MB) completed.
753 Hashes match.
754 Installing dotnetcore-sdk...
```

# 4 CI Full Pipeline

Azure DevOps neveroanton / TerraformProject0 / Pipelines / Terraform-CI / 20221209.4

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## Jobs in run #2022120...

Terraform-CI

Jobs

Agent job 1 4m 40s

Initialize job 4s

Checkout Terraform... 6s

Install .net core 2... 2m 3s

Restore 1m 38s

Build 20s

Test 8s

Publish 10s

Copy Terraform file... <1s

Publish Artifact 1s

Post-job: Checkout ... <1s

## Agent job 1



View raw log

```
1 Pool: Azure Pipelines
2 Image: windows-2019
3 Agent: Hosted Agent
4 Started: Today at 13:20
5 Duration: 4m 40s
6
7 ▶ Job preparation parameters
8 ▶ /x 3 queue time variables used
9 1 artifact produced
10 100% tests passed
```

# 5 CD Pipeline at work

**Azure DevOps** neveroanton / TerraformProject0 / Pipelines / Releases / Terraform-CD / Release-1

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Terraform-CD > Release-1

Pipeline Variables History + Deploy Cancel Refresh Edit ...

**Release**

Manually triggered  
by Anton Nevero  
12.12.2022, 14:36

Artifacts  
\_Terraform-CI  
20221209.4  
terraform

**Stages**

Dev  
In progress

Initialize job  
1/8 tasks  
00:07

## 6 CD Full Pipeline

## Deployment process

Succeeded

Agent job

Succeeded

✓	Initialize job · succeeded	9s
✓	Download artifact - _Terraform-CI - drop · succeeded	2s
✓	Azure CLI to deploy required Azure resources · succeeded	1m 58s
✓	Azure PowerShell script to get the storage key · succeeded	20s
✓	Replace tokens in terraform file · succeeded	<1s
✓	Install Terraform 0.12.3 · succeeded	3s
✓	Terraform : init · succeeded	6s
✓	Terraform : plan · succeeded	21s
✓	Terraform : apply -auto-approve · succeeded	1m 34s
✓	Azure App Service Deploy: pulterraformwebedb40f88 · succeeded	1m 3s
✓	Finalize Job · succeeded	<1s

## 7 Final App service

Home > App Services >

### App Services

Default Directory (neveroantongmail.onmicrosoft....)

+ Create ⚙️ Manage view ▾ ...

Filter for any field...

Name ↑↓


 pulterraformwebedb40f88 ...



### pulterraformwebedb40f88

App Service

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 Activity log

 Access control (IAM)

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 Diagnose and solve problems

 Microsoft Defender for Cloud

 Events (preview)

#### Deployment

 Quickstart

 Deployment slots

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#### Settings

 Configuration



Browse



Stop



Swap



Restart



Delete



Refresh



Get publish profile



#### Essentials

Resource group [\(move\)](#)  
[PULTerraform](#)

Status  
Running

Location  
West Europe

Subscription [\(move\)](#)  
[Azure subscription 1](#)

Subscription ID  
4ffac9b8-ea16-43e0-be73-10d6bec6ce03

Tags [\(edit\)](#)  
[Click here to add tags](#)

[JSON View](#)

URL  
<https://pulterraformwebedb40f88.azurewebsites.net>

Health Check  
[Not Configured](#)

App Service Plan  
[PULTerraformplan \(F1: Free\)](#)



#### Diagnose and solve problems

Our self-service diagnostic and troubleshooting experience helps you identify and resolve issues with your web app.



#### Application Insights

Application Insights helps you detect and diagnose quality issues in your apps, and helps you understand what your users actually do with it.