## Now that you have completed a deployment to test and production, you can try the following:

# Introduce a failing Terraform lint execution

1. Navigate to **Repository > Branches** in the left menu. Click **New branch** to create our new branch.

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Description automatically generated**

1. Name the branch **introducing-tflint-failure** and click **Create branch**

We will be redirected to the Repository File view screen, on our new branch.

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1. Navigate to the **infra** directory by clicking on it in the repository view. Scroll down and click on the **outputs.tf** file

Graphical user interface, text, application, email

Description automatically generated

1. Open the Web IDE by clicking on the **Web IDE** button.

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1. Change the output value

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Modify the line

value = aws\_s3\_bucket.website.bucket\_domain\_name

Replace with:

value = "${aws\_s3\_bucket.website.bucket\_domain\_name}"

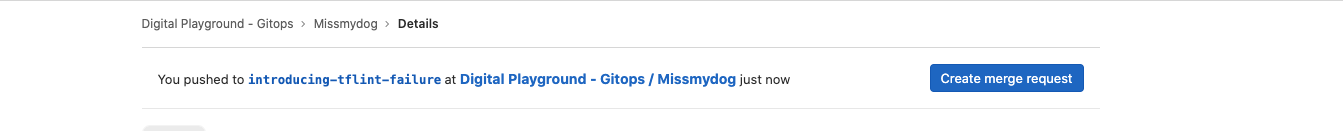
This is changing the syntax of the output value from Terraform 12 (which we are using) to the older Terraform 11 syntax for using attribute values. This will be noticed by tflint.

1. Click **Commit**

Graphical user interface, text, application

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1. Untick the **Start a new merge request** option to prevent us merging to master. Click **Commit** and head back to the main repo screen by clicking the repo name in the top left



1. Click **Create merge request** which should be displayed at the top of the screen
2. Change branches from master to test by clicking **Change branches**
3. Click **Compare branches and continue**

Graphical user interface

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1. Disable **“Delete source branch when merge request is accepted.”**
2. Now click **Submit merge request**

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1. Click on the detached pipeline to view it

Graphical user interface, text, application, email

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The job **merge:lint-terraform** should now fail. Refresh the page, and there should now be a tab called **Tests (1)** displayed above the pipeline. Click on this tab

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If you click on the  **merge:lint-terraform** under **Jobs** you will be taken to the test view screen.

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This shows us the file where the failure was found (**outputs.tf**) and the **Trace** output shows us the error. In this case, the problem is that we are using a deprecated syntax (which we introduced above).

We can go ahead and close this Merge Request now as we do not want to merge the breaking changes test or production.

# Destroy Environment

We only really need the test environment for the lifecycle of our tests, and after we are done with it, we can tear it down. This process is automated via a job called **destroy:infra-test** which uses a Terraform command called **destroy** to delete all of our deployed infrastructure.

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Description automatically generated

If we navigate to our last Merge Request to the test environment and open the pipeline by clicking on the pipeline ID

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We can destroy our testing environment by clicking on the stop icon next to **destroy:infra-test**

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Click on **destroy:infra-test** to view the job execution logs

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Description automatically generated

We can now watch as Terraform deletes all the AWS resources that we have created. Don’t worry, as we can easily deploy this again!

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Description automatically generated

Go back to the pipeline screen and click the Retry button on the **deploy:infra-test** job to redeploy our environment.

# Deploy to production

We tested our deployment to the test environment, now that we have tested our changes, we are ready to deploy them to production.

1. Click the **Merge request** button next to our **enable-ci** branch.

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1. Leave all the default values, and click **Submit merge request**

Graphical user interface, text, application, email

Description automatically generated

Our merge request pipeline will now plan the changes to the production environment.

1. Click **Merge when pipeline succeeds** to automatically merge the branch when the merge pipeline is completed.

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Graphical user interface, text, application, email

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