


# TASK 21

1. Deploy the Node js hands on - in the EC2:

 Create the files to following the file structure

insta-lite

main insta-lite

+ Find file Code

Edit main.tf

saravana G authored 7 minutes ago

8347a81e History

Name	Last commit	Last update
instagram	Edit main.tf	7 minutes ago
.gitlab-ci.yml	Add new file	18 minutes ago
README.md	Initial commit	30 minutes ago

instagram

+ Find file Code






Edit main.tf

saravana G authored 8 minutes ago

8347a81e History

Name	Last commit	Last update
..		
.gitkeep	Add new directory	26 minutes ago
main.tf	Edit main.tf	8 minutes ago
output.tf	Add new file	20 minutes ago
user_data.sh	Add new file	19 minutes ago
variable.tf	Edit variable.tf	11 minutes ago

Files :

-  main.tf – defines EC2 instance, security group
-  variables.tf – stores value (AMI, instance type, and keyname )
-  outputs.tf – defines outputs (EC2 public IP)
-  user\_data.sh – install Node.js & start the application
-  .gitlab-ci.yml – GitLab CI/CD pipeline with validate, plan, and apply stages



After complete yml file gitlab pipeline automatically started to validate & plan and apply process

firstproject / insta-lite / Pipelines / #2215763378

## Edit main.tf

Delete

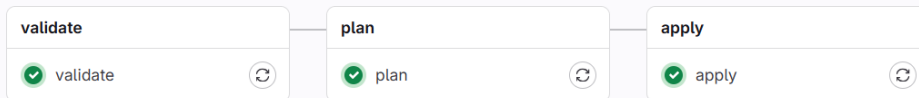
✓ Passed Created 2 minutes ago by saravana G, finished in 1 minute

For commit 8347a81e

In main

latest branch 3 jobs 1.58 1 minute 41 seconds, queued for 1 seconds

Pipeline Jobs 3 Failed Jobs 1 Tests 0



## validate

```
24 on linux_amd64
25 Your version of Terraform is out of date! The latest version
26 is 1.14.2. You can update by downloading from https://www.terraform.io/downloads.html
27 $ cd instagram
28 $ terraform init
29 Initializing the backend...
30 Initializing provider plugins...
31 - Finding hashicorp/aws versions matching "~> 5.0"...
32 - Installing hashicorp/aws v5.100.0...
33 - Installed hashicorp/aws v5.100.0 (signed by HashiCorp)
34 Terraform has created a lock file .terraform.lock.hcl to record the provider
35 selections it made above. Include this file in your version control repository
36 so that Terraform can guarantee to make the same selections by default when
37 you run "terraform init" in the future.
38 Terraform has been successfully initialized!
39 You may now begin working with Terraform. Try running "terraform plan" to see
40 any changes that are required for your infrastructure. All Terraform commands
41 should now work.
42 If you ever set or change modules or backend configuration for Terraform,
43 rerun this command to reinitialize your working directory. If you forget, other
44 commands will detect it and remind you to do so if necessary.
45 $ terraform validate
46 Success! The configuration is valid.
47 Cleaning up project directory and file based variables
48 Job succeeded
```

Duration: 28 seconds

Finished: 5 minutes ago

Queued: 0 seconds

Timeout: 1h (from project)

Runner: #12270857 (ntHFEtyX) 4-green.saas-linux-small-amd64.runners-manager.gitlab.com/default

Source: Push

Commit 8347a81e

Edit main.tf

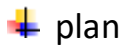
Pipeline #2215763378 ✓ Passed

for main

validate

Related jobs

→ ✓ validate



## plan

```
139     + description      = "SSH"
140     + from_port        = 22
141     + ipv6_cidr_blocks = []
142     + prefix_list_ids  = []
143     + protocol         = "tcp"
144     + security_groups  = []
145     + self              = false
146     + to_port          = 22
147   },
148   ]
149   + name            = "nodejs-sg"
150   + name_prefix     = (known after apply)
151   + owner_id        = (known after apply)
152   + revoke_rules_on_delete = false
153   + tags_all        = (known after apply)
154   + vpc_id          = (known after apply)
155 }
156 Plan: 2 to add, 0 to change, 0 to destroy.
157 Changes to Outputs:
158   + ec2_public_ip = (known after apply)
159
160 Note: You didn't use the -out option to save this plan, so Terraform can't
161 guarantee to take exactly these actions if you run "terraform apply" now.
162 Cleaning up project directory and file based variables
163 Job succeeded
```

Duration: 28 seconds  
Finished: 5 minutes ago  
Queued: 0 seconds  
Timeout: 1h (from project) ?  
Runner: #12270859 (xS6Vzpvo) 5-green.saas-linux-small-amd64.runners-manager.gitlab.com/default

Source: Push

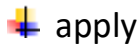
Commit 8347a81e [🔗](#)  
Edit main.tf

Pipeline #2215763378 ✓ Passed  
for main [🔗](#)

plan [▼](#)

Related jobs

→ ✓ plan



## apply

```
144     + security_groups = []
145     + self            = false
146     + to_port         = 22
147   },
148   ]
149   + name            = "nodejs-sg"
150   + name_prefix     = (known after apply)
151   + owner_id        = (known after apply)
152   + revoke_rules_on_delete = false
153   + tags_all        = (known after apply)
154   + vpc_id          = (known after apply)
155 }
156 Plan: 2 to add, 0 to change, 0 to destroy.
157 Changes to Outputs:
158   + ec2_public_ip = (known after apply)
159 aws_security_group.node_sg: Creating...
160 aws_security_group.node_sg: Creation complete after 3s [id=sg-0a01024892381f4d4]
161 aws_instance.node_app: Creating...
162 aws_instance.node_app: Still creating... [10s elapsed]
163 aws_instance.node_app: Creation complete after 13s [id=i-07e9b90e84d7f013a]
164 Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
165 Outputs:
166 ec2_public_ip = "204.236.159.149"
167 Cleaning up project directory and file based variables
168 Job succeeded
```

Duration: 44 seconds  
Finished: 2 minutes ago  
Queued: 0 seconds  
Timeout: 1h (from project) ?  
Runner: #12270848 (ns46NMmJ) 2-green.saas-linux-small-amd64.runners-manager.gitlab.com/default

Source: Push

Commit 8347a81e [🔗](#)  
Edit main.tf

Pipeline #2215763378 ✓ Passed  
for main [🔗](#)

apply [▼](#)

Related jobs

→ ✓ apply

✗ apply [🔄](#)



## Completed the apply process instance will be created

Instances (1/1) [Info](#)



Connect

Instance state [▼](#)


Actions [▼](#)

Launch instances [▼](#)

All states [▼](#)

< 1 > [⚙️](#)

<input checked="" type="checkbox"/>	Name <a href="#">🔗</a> <a href="#">▼</a>	Instance ID	Instance state <a href="#">▼</a>	Instance type <a href="#">▼</a>	Status check	Alarm status	Availability Zone <a href="#">▼</a>	Public IP
<input checked="" type="checkbox"/>	NodeJS-EC2	i-07e9b90e84d7f013a	<span>✓</span> Running <a href="#">🔗</a> <a href="#">🔍</a>	t3.micro	<a href="#">🕒</a> Initializing	<a href="#">View alarms +</a>	us-west-1a	ec2-204

 Past our output : (ec2\_public\_ip = "\*\*\*\*\*" )to get output

