

TASK 21

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

- Create the files to following the file structure

I 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

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25 Your version of Terraform is out of date!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 (nHFEtyX) 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 (xS6Vzpv0) 5-green.saas-linux-small-amd64.runners-manager.gitlab.com/default
Source: Push

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

Pipeline #2215763378 [Passed](#) for main [View](#)

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 [View](#)

apply

Related jobs

→ [apply](#)

✖ [apply](#)

Completed the apply process instance will be created

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

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IP |
|-------------------------------------|------------|---------------------|--|---------------|------------------------------|---|-------------------|-----------|
| <input checked="" type="checkbox"/> | NodeJS-EC2 | i-07e9b90e84d7f013a | Running View logs View metrics | t3.micro | Initializing | View alarms + | us-west-1a | ec2-204 |

 Past our output : (ec2_public_ip = "*****") to get output

