


Cloud Infrastructure

Overview of your provisioned resources and automation status


 **api-server-production** running

EC2 Instance

Type: t2.micro

Region: us-west-2

Public IP: 54.XXX.XXX.XX

 **api-server-sg** active


Security Group

Ingress Rules:

80 | TCP | 0.0.0.0/0

443 | TCP | 0.0.0.0/0

+1 more

 **api-server-role** active

IAM Role

Policies:

AmazonS3ReadOnlyAccess

CloudWatchAgentServerPolicy

Infrastructure as Code

Terraform Configuration

Infrastructure as Code for cloud resources

Code

Resource Graph

```
resource "aws_instance" "api_server" {
  ami           = "ami-0c55b159cbfaffe1f0"
  instance_type = "t2.micro"
  key_name      = var.key_name
  vpc_security_group_ids =
    [aws_security_group.api_server_sg.id]

  tags = {
    Name     = "api-server-production"
    Environment = "production"
  }
}

resource "aws_security_group" "api_server_sg" {
  name        = "api-server-sg"
  description = "Security group for API server"

  ingress {
    from_port   = 80
    to_port     = 80
    protocol    = "tcp"
    cidr_blocks = ["0.0.0.0/0"]
  }
}
```

Ansible Execution success

Latest configuration run: setup_app.yml

Host: api-server-production

Run Time: 15/10/2023, 16:30:00

Tasks Completion

12 / 14

Task Summary

✔ Install Python dependencies

15s

✔ Configure Docker

25s

✔ Set up Nginx as reverse proxy

18s

✔ Create systemd service file

5s


✔ Start application


10s


Application Health & Deployment


Server Health


Real-time metrics from Flask application


 CPU Usage 30%

 Memory Usage 42%

 Disk Usage 49%

 Uptime 77 hrs

 Requests per Min 33

 Response Time 144.6 ms

Automation Workflow

GitHub Actions deployment pipeline

✔ Terraform Plan Completed

Resources to create: 3, change: 0, destroy: 0

Duration: 45s

✔ Terraform Apply Completed

Applied 3 resources successfully

Duration: 2m 15s

✔ Ansible Setup Completed

12 tasks completed successfully

Duration: 5m 10s

▶ Application Deployment In Progress


Deploying Flask application

Duration: 1m 30s

🕒 Validation Pending

Waiting for deployment to complete

Duration: 0s

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