

Terraform DevOps Interview Cheat Sheet

1. Provider Block

```
provider "aws" {
  region = var.aws_region
}
```

2. Variables

3. Security Group (Allow SSH)

```
resource "aws_security_group" "allow_ssh" {
         = "allow_ssh"
 description = "Allow SSH inbound traffic"
 ingress {
   description = "SSH from anywhere (dev only)"
   from_port = 22
   to_port = 22
   protocol = "tcp"
   cidr_blocks = ["0.0.0.0/0"]
 egress {
   from_port = 0
   to_port = 0
   protocol = "-1"
   cidr_blocks = ["0.0.0.0/0"]
 }
 tags = {
   Name = "allow_ssh"
   Environment = "dev"
```

```
}
}
```

4. EC2 Instance

5. Outputs

```
output "instance_ip" {
  value = aws_instance.ec2.public_ip
}
```

6. terraform.tfvars Example

```
aws_region = "us-east-1"
ami_id = "ami-0c02fb55956c7d316"
instance_type = "t2.micro"
key_name = "devops-key"
```

7. .gitignore Essentials

```
*.tfstate
*.tfstate.*
.terraform/
terraform.tfvars
.terraform.lock.hcl
```

8. Core CLI Commands

Command	Purpose
terraform init	Initialize working dir
terraform plan	Show execution plan
terraform apply	Apply changes
terraform destroy	Tear down infrastructure
terraform fmt	Format configuration files
terraform validate	Validate configuration

9. Production Notes

- **Tags** for cost, owner, env.
- Use **remote state** (S3 + DynamoDB) in teams.
- Restrict SSH CIDRs in prod.
- Modules for reusable patterns.
- State locking prevents concurrent changes.