



Create new Workspace

```
shawky@~/Documents/Terraform/Terraform-Project$ terraform workspace new dev
Created and switched to workspace "dev"!
```

You're now on a new, empty workspace. Workspaces isolate their state, so if you run "terraform plan" Terraform will not see any existing state for this configuration.

```
shawky@~/Documents/Terraform/Terraform-Project$ terraform workspace show
dev
shawky@~/Documents/Terraform/Terraform-Project$
```

The S3-bucket with the state file in it

dev/ Copy S3 URI

Objects
Properties

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Refresh
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder

Upload

Show versions

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	terraform.tfstate	tfstate	May 23, 2023, 13:58:32 (UTC+02:00)	82.2 KB	Standard

Dynamodb Table

Table - terraform-lockstate-dynamodb

All attributes

Filters

Run Reset

Completed. Read capacity units consumed: 2

Items returned (2)

Actions Create item

< 1 >

LockID	Digest	Info
hossam-state-bucket/...		{"ID":"39a89be3-f34e-ed60-5005-5b7d871cc553","Operation":"Operati..."}
hossam-state-bucket/...	a2eaa38a4...	

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The output of sending a request to the public ALB dns.

Not secure | public-loadbalancer-1889905157.us-east-1.elb.amazonaws.com

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Ubuntu Logo

Apache2 Ubuntu Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at /var/www/html/index.html) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the apache2-doc package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/  
|-- apache2.conf  
|  
|-- ports.conf  
-- mds-enabled
```

The public instances module provisioner configurations.

```
provisioner "remote-exec" {
  inline = [
    "sudo apt update -y",
    "sudo apt install nginx -y",
    "sudo systemctl enable nginx",
    # Replace nginx configuration with local configuration
    "sudo sed -i \"52 i proxy_pass http://${var.private_load_balancer_dns};\" /etc/nginx/sites-available/default",
    "sudo systemctl restart nginx"
  ]
}

connection {
  type      = "ssh"
  user      = "ubuntu"
  private_key = file("./mykey.pem")
  host      = self.public_ip
}
```

The two ALBs.

```
shawky@~/Documents/Terraform/Terraform-Project$ cat public-loadbalancer.txt
public-loadbalancer-1889905157.us-east-1.elb.amazonaws.com
shawky@~/Documents/Terraform/Terraform-Project$
```

Instances

Instances (4) Info

Find Instance by attribute or tag (case-sensitive)

Instance state = running X Clear filters

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Ala
<input type="checkbox"/>	apache-server	I-0394172887081025b	Running	t2.micro	2/2 checks passed	No
<input type="checkbox"/>	apache-server	I-0cb4176239dd97926	Running	t2.micro	2/2 checks passed	No
<input type="checkbox"/>	nginx-proxy	I-084c86bd7c3f16503	Running	t2.micro	2/2 checks passed	No
<input type="checkbox"/>	nginx-proxy	I-078bd4f4c0e56b725	Running	t2.micro	2/2 checks passed	No

Health Checks

public-TG

Actions ▼

Details

arn:aws:elasticloadbalancing:us-east-1:597298756260:targetgroup/public-TG/0c4021866ddfc4f4

Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP: 80	HTTP1	vpc-0465d437c8e5c1e3c
IP address type	Load balancer		
IPv4	public-loadbalancer		

Total targets	Healthy	Unhealthy	Unused	Initial	Draining
2	2	0	0	0	0

private-TG

Actions ▼

Details

arn:aws:elasticloadbalancing:us-east-1:597298756260:targetgroup/private-TG/648fd9f9cc8900c2

Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP: 80	HTTP1	vpc-0465d437c8e5c1e3c
IP address type	Load balancer		
IPv4	private-loadbalancer		

Total targets	Healthy	Unhealthy	Unused	Initial	Draining
2	2	0	0	0	0