LAB | Storing Terraform State in Remote S3 with DynamoDB

```
vijayagagla@DESKTOP-FP4OP26:~/terra_course/remote-state-example$ terraform init
Initializing the backend...

Successfully configured the backend "s3"! Terraform will automatically
use this backend unless the backend configuration changes.
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v6.28.0...
- Installed hashicorp/aws v6.28.0 (signed by HashiCorp)
Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
vijayagagla@DESKTOP-FP4OP26:~/terra_course/remote-state-example$ terraform validate
Success! The configuration is valid.
```

```
vijayagagla@DESKTOP-FP4OP26:~/terra_course/remote-state-example$ terraform plan

Terraform used the selected providers to generate the following execution plan. Resource actions
are indicated with the following symbols:
  + create

Terraform will perform the following actions:

  # aws_instance.web_server will be created
  + resource "aws_instance" "web_server" {
      + ami                                  = "ami-07d9b9ddc6cd8dd30"
      + arn                                  = (known after apply)
      + associate_public_ip_address          = (known after apply)
      + availability_zone                    = (known after apply)
      + disable_api_stop                     = (known after apply)
      + disable_api_termination              = (known after apply)
      + ebs_optimized                        = (known after apply)
      + enable_primary_ipv6                  = (known after apply)
      + force_destroy                        = false
      + get_password_data                    = false
      + host_id                              = (known after apply)
      + host_resource_group_arn              = (known after apply)
      + iam_instance_profile                 = (known after apply)
      + id                                   = (known after apply)
      + instance_initiated_shutdown_behavior = (known after apply)
      + instance_lifecycle                   = (known after apply)
      + instance_state                       = (known after apply)
      + instance_type                        = "t2.micro"
      + ipv6_address_count                   = (known after apply)
      + ipv6_addresses                       = (known after apply)
      + key_name                             = (known after apply)
      + monitoring                           = (known after apply)
      + outpost_arn                          = (known after apply)
      + password_data                        = (known after apply)
      + placement_group                      = (known after apply)
      + placement_group_id                   = (known after apply)
      + placement_partition_number           = (known after apply)
      + primary_network_interface_id         = (known after apply)
      + private_dns                          = (known after apply)
      + private_ip                           = (known after apply)
      + public_dns                           = (known after apply)
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  + public_dns                            = (known after apply)
  + public_ip                             = (known after apply)
  + region                                = "eu-west-1"
  + secondary_private_ips                 = (known after apply)
  + security_groups                       = (known after apply)
  + source_dest_check                     = true
  + spot_instance_request_id              = (known after apply)
  + subnet_id                             = (known after apply)
  + tags                                  = {
      + "Name" = "Terraform-Managed-Instance-vijaya"
    }
  + tags_all                              = {
      + "Name" = "Terraform-Managed-Instance-vijaya"
    }
  + tenancy                               = (known after apply)
  + user_data_base64                      = (known after apply)
  + user_data_replace_on_change           = false
  + vpc_security_group_ids                = (known after apply)

  + capacity_reservation_specification (known after apply)

  + cpu_options (known after apply)

  + ebs_block_device (known after apply)

  + enclave_options (known after apply)

  + ephemeral_block_device (known after apply)

  + instance_market_options (known after apply)

  + maintenance_options (known after apply)

  + metadata_options (known after apply)

  + network_interface (known after apply)

  + primary_network_interface (known after apply)

  + private_dns_name_options (known after apply)
```

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    + root_block_device (known after apply)
  }

Plan: 1 to add, 0 to change, 0 to destroy.
```

```
vijayagagla@DESKTOP-FP4OP26:~/terra_course/remote-state-example$ terraform apply -auto-approve
Acquiring state lock. This may take a few moments...

Terraform used the selected providers to generate the following execution plan. Resource actions
are indicated with the following symbols:
  + create

Terraform will perform the following actions:

  # aws_instance.web_server will be created
  + resource "aws_instance" "web_server" {
      + ami                                  = "ami-096f46d460613bed4"
      + arn                                  = (known after apply)
      + associate_public_ip_address          = (known after apply)
      + availability_zone                    = (known after apply)
      + disable_api_stop                     = (known after apply)
      + disable_api_termination              = (known after apply)
      + ebs_optimized                        = (known after apply)
      + enable_primary_ipv6                  = (known after apply)
      + force_destroy                        = false
      + get_password_data                    = false
      + host_id                              = (known after apply)
      + host_resource_group_arn              = (known after apply)
      + iam_instance_profile                 = (known after apply)
      + id                                   = (known after apply)
      + instance_initiated_shutdown_behavior = (known after apply)
      + instance_lifecycle                   = (known after apply)
      + instance_state                       = (known after apply)
      + instance_type                        = "t2.micro"
      + ipv6_address_count                   = (known after apply)
      + ipv6_addresses                       = (known after apply)
      + key_name                             = (known after apply)
      + monitoring                           = (known after apply)
      + outpost_arn                          = (known after apply)
      + password_data                        = (known after apply)
      + placement_group                      = (known after apply)
      + placement_group_id                   = (known after apply)
      + placement_partition_number           = (known after apply)
      + primary_network_interface_id         = (known after apply)
```

```
+ primary_network_interface_id          = (known after apply)
+ private_dns                           = (known after apply)
+ private_ip                            = (known after apply)
+ public_dns                            = (known after apply)
+ public_ip                             = (known after apply)
+ region                                = "eu-west-1"
+ secondary_private_ips                  = (known after apply)
+ security_groups                       = (known after apply)
+ source_dest_check                     = true
+ spot_instance_request_id              = (known after apply)
+ subnet_id                             = (known after apply)
+ tags                                  = {
    + "Name" = "Terraform-Managed-Instance-vijaya"
  }
+ tags_all                              = {
    + "Name" = "Terraform-Managed-Instance-vijaya"
  }
+ tenancy                               = (known after apply)
+ user_data_base64                      = (known after apply)
+ user_data_replace_on_change           = false
+ vpc_security_group_ids                = (known after apply)

+ capacity_reservation_specification (known after apply)

+ cpu_options (known after apply)

+ ebs_block_device (known after apply)

+ enclave_options (known after apply)

+ ephemeral_block_device (known after apply)

+ instance_market_options (known after apply)

+ maintenance_options (known after apply)

+ metadata_options (known after apply)

+ network_interface (known after apply)

+ primary_network_interface (known after apply)
```

```
      + metadata_options (known after apply)

      + network_interface (known after apply)

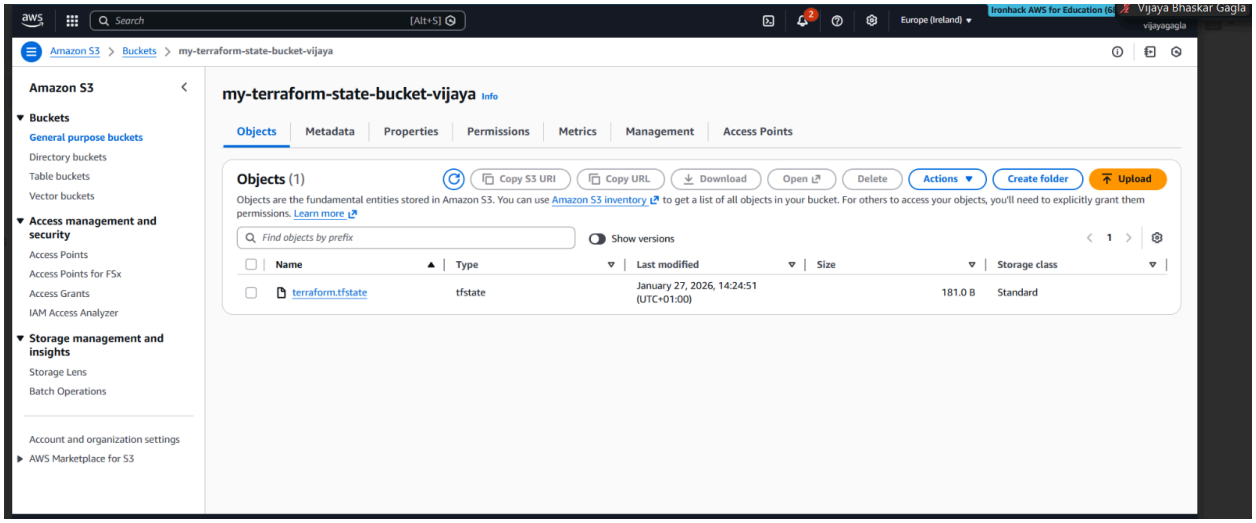
      + primary_network_interface (known after apply)

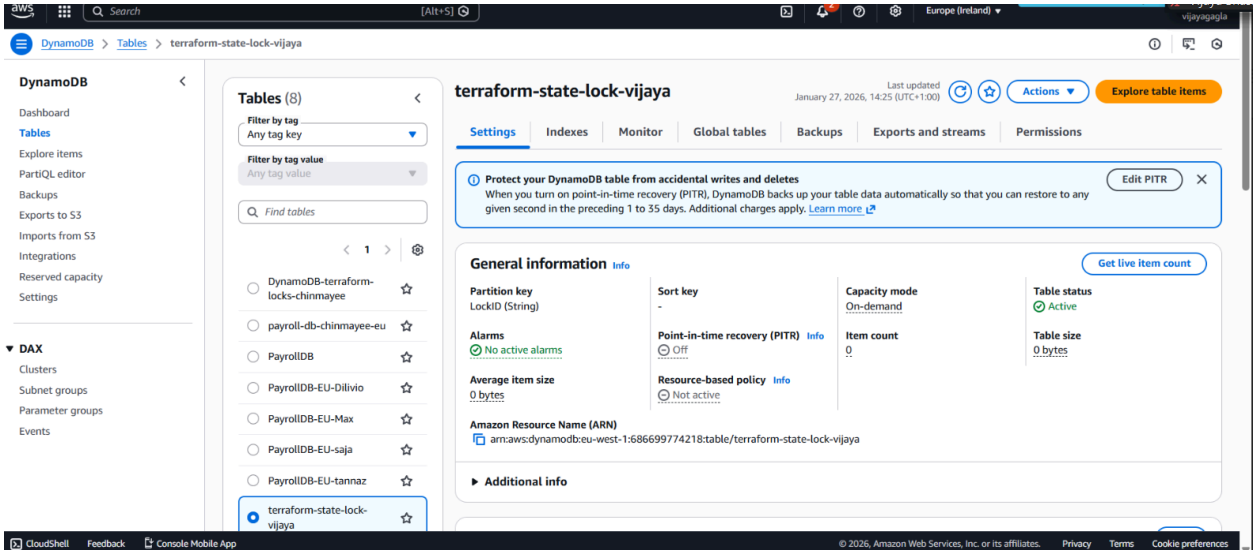
      + private_dns_name_options (known after apply)

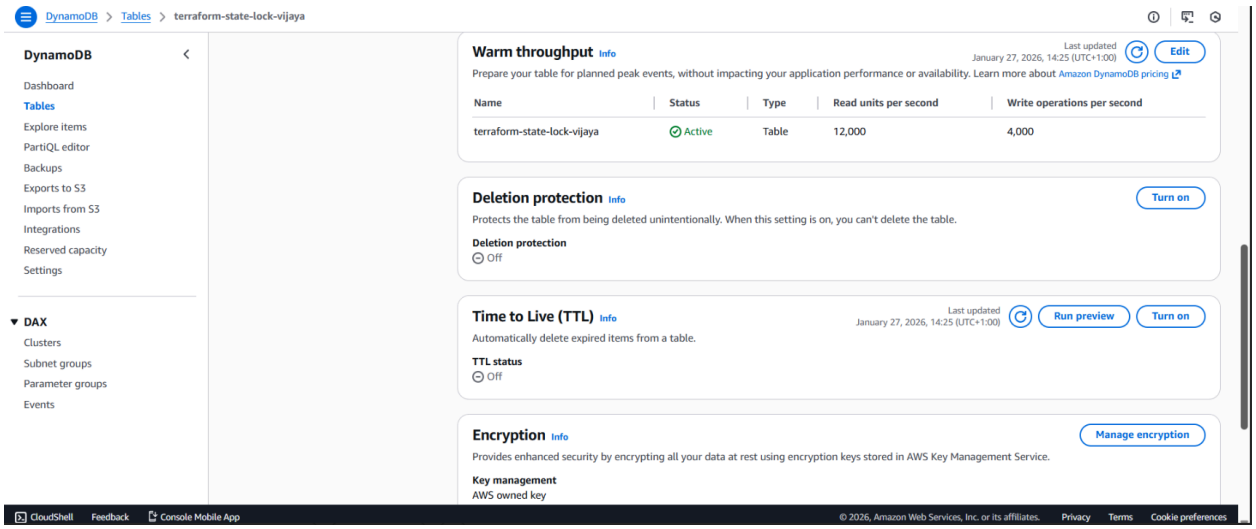
      + root_block_device (known after apply)
    }

Plan: 1 to add, 0 to change, 0 to destroy.
aws_instance.web_server: Creating...
aws_instance.web_server: Still creating... [00m09s elapsed]
aws_instance.web_server: Still creating... [00m20s elapsed]
aws_instance.web_server: Creation complete after 22s [id=i-02542bf404c1b071f]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
```




DynamoDB > Tables > terraform-state-lock-vijaya
DynamoDB
Dashboard
Tables
Explore items
PartiQL editor
Backups
Exports to S3
Imports from S3
Integrations
Reserved capacity
Settings
DAX
Clusters
Subnet groups
Parameter groups
Events
Tables (8)
Filter by tag
Any tag key
Filter by tag value
Any tag value
Find tables
DynamoDB-terraform-locks-chinmayee
payroll-db-chinmayee-eu
PayrollDB
PayrollDB-EU-Dilivio
PayrollDB-EU-Max
PayrollDB-EU-saja
PayrollDB-EU-tannaz
terraform-state-lock-vijaya
terraform-state-lock-vijaya
Last updated January 27, 2026, 14:25 (UTC+1:00)
Actions
Explore table items
Settings
Indexes
Monitor
Global tables
Backups
Exports and streams
Permissions
Protect your DynamoDB table from accidental writes and deletes
When you turn on point-in-time recovery (PITR), DynamoDB backs up your table data automatically so that you can restore to any given second in the preceding 1 to 35 days. Additional charges apply. Learn more
Edit PITR
General information Info
Get live item count
Partition key
LockID (String)
Sort key
-
Capacity mode
On-demand
Table status
Active
Alarms
No active alarms
Point-in-time recovery (PITR) Info
Off
Item count
0
Table size
0 bytes
Average item size
0 bytes
Resource-based policy Info
Not active
Amazon Resource Name (ARN)
arn:aws:dynamodb:eu-west-1:686699774218:table/terraform-state-lock-vijaya
Additional info
CloudShell
Feedback
Console Mobile App
© 2026, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


DynamoDB > Tables > terraform-state-lock-vijaya
DynamoDB
Dashboard
Tables
Explore items
PartiQL editor
Backups
Exports to S3
Imports from S3
Integrations
Reserved capacity
Settings
DAX
Clusters
Subnet groups
Parameter groups
Events
Warm throughput Info
Last updated January 27, 2026, 14:25 (UTC+1:00)
Edit
Prepare your table for planned peak events, without impacting your application performance or availability. Learn more about Amazon DynamoDB pricing
Name
Status
Type
Read units per second
Write operations per second
terraform-state-lock-vijaya
Active
Table
12,000
4,000
Deletion protection Info
Turn on
Protects the table from being deleted unintentionally. When this setting is on, you can't delete the table.
Deletion protection
Off
Time to Live (TTL) Info
Last updated January 27, 2026, 14:25 (UTC+1:00)
Run preview
Turn on
Automatically delete expired items from a table.
TTL status
Off
Encryption Info
Manage encryption
Provides enhanced security by encrypting all your data at rest using encryption keys stored in AWS Key Management Service.
Key management
AWS owned key
CloudShell
Feedback
Console Mobile App
© 2026, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
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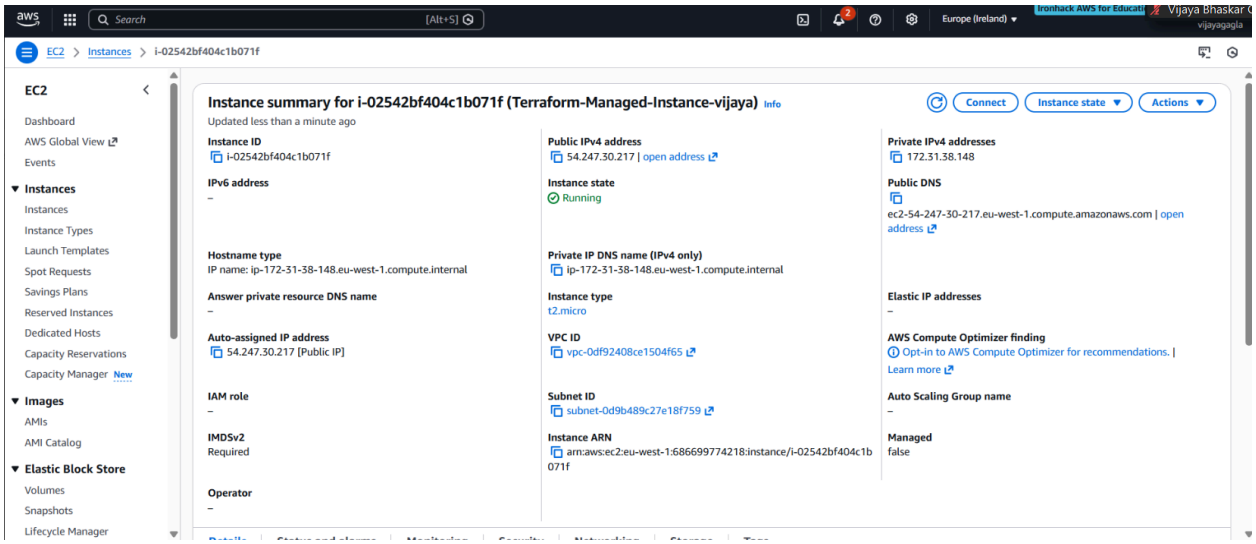
EC2 > Instances > i-02542bf404c1b071f
EC2
Dashboard
AWS Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Capacity Manager New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Instance summary for i-02542bf404c1b071f (Terraform-Managed-Instance-vijaya) Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-02542bf404c1b071f
Public IPv4 address
54.247.30.217 | open address
Private IPv4 addresses
172.31.38.148
IPv6 address
–
Instance state
Running
Public DNS
ec2-54-247-30-217.eu-west-1.compute.amazonaws.com | open address
Hostname type
IP name: ip-172-31-38-148.eu-west-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-38-148.eu-west-1.compute.internal
Answer private resource DNS name
–
Instance type
t2.micro
Elastic IP addresses
–
Auto-assigned IP address
54.247.30.217 [Public IP]
VPC ID
vpc-0df92408ce1504f65
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM role
–
Subnet ID
subnet-0d9b489c27e18f759
Auto Scaling Group name
–
IMDSv2
Required
Instance ARN
arn:aws:ec2:eu-west-1:686699774218:instance/i-02542bf404c1b071f
Managed
false
Operator
–