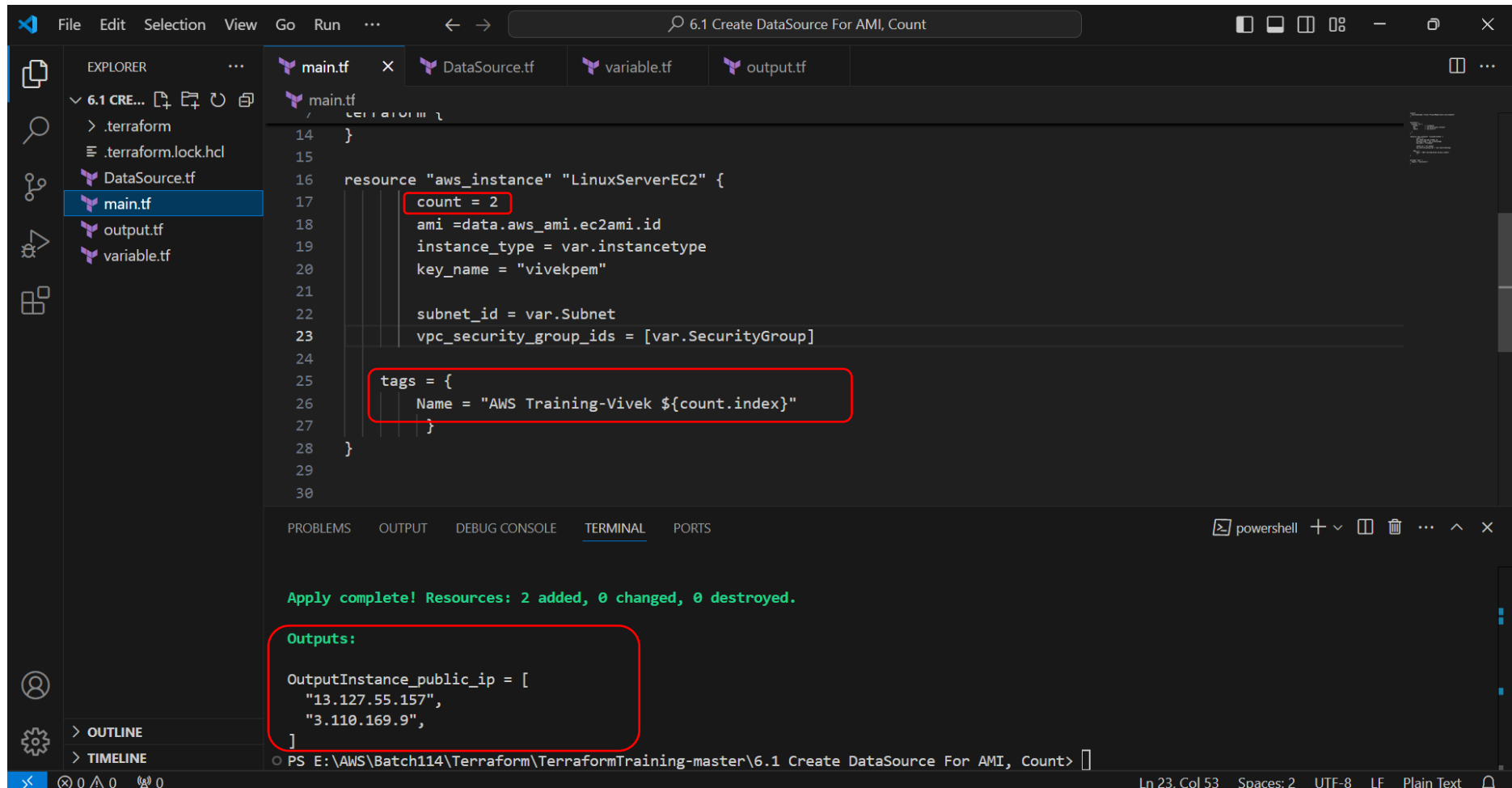


Count Execution In Terraform:

No of Instances =2

Outputs =Public Ip Address



The screenshot shows the Visual Studio Code interface with a Terraform project. The Explorer panel on the left shows the file structure with `main.tf` selected. The main editor displays the `main.tf` file content, which defines an `aws_instance` resource named `LinuxServerEC2`. The `count` attribute is set to `2`, and the `tags` block includes a dynamic tag `Name = "AWS Training-Vivek ${count.index}"`. The terminal at the bottom shows the output of a Terraform apply command, indicating that 2 resources were added. The `Outputs` section shows the public IP addresses of the instances.

```
14 }
15
16 resource "aws_instance" "LinuxServerEC2" {
17     count = 2
18     ami = data.aws_ami.ec2ami.id
19     instance_type = var.instance_type
20     key_name = "vivekpem"
21
22     subnet_id = var.Subnet
23     vpc_security_group_ids = [var.SecurityGroup]
24
25     tags = {
26         Name = "AWS Training-Vivek ${count.index}"
27     }
28 }
29
30
```

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.

Outputs:

```
OutputInstance_public_ip = [
    "13.127.55.157",
    "3.110.169.9",
]
```

PS E:\AWS\Batch114\Terraform\TerraformTraining-master\6.1 Create DataSource For AMI, Count>

Instances in AWS Counsel:

aws

Services

Search

[Alt+S]

Mumbai

VivekVelturi

EC2

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations

Images

Instances (2) Info

Last updated 3 minutes ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

Instance state = running

Clear filters

< 1 >

	Name	Instance ID	Instance state	Instance type	Status check	Alarm s
<input type="checkbox"/>	AWS Training-Vivek 1	i-0c40b88de74f71ad5	Running	t2.micro	Initializing	View ala
<input type="checkbox"/>	AWS Training-Vivek 0	i-02267f892736a93f2	Running	t2.micro	Initializing	View ala

Select an instance

CloudShell

Feedback

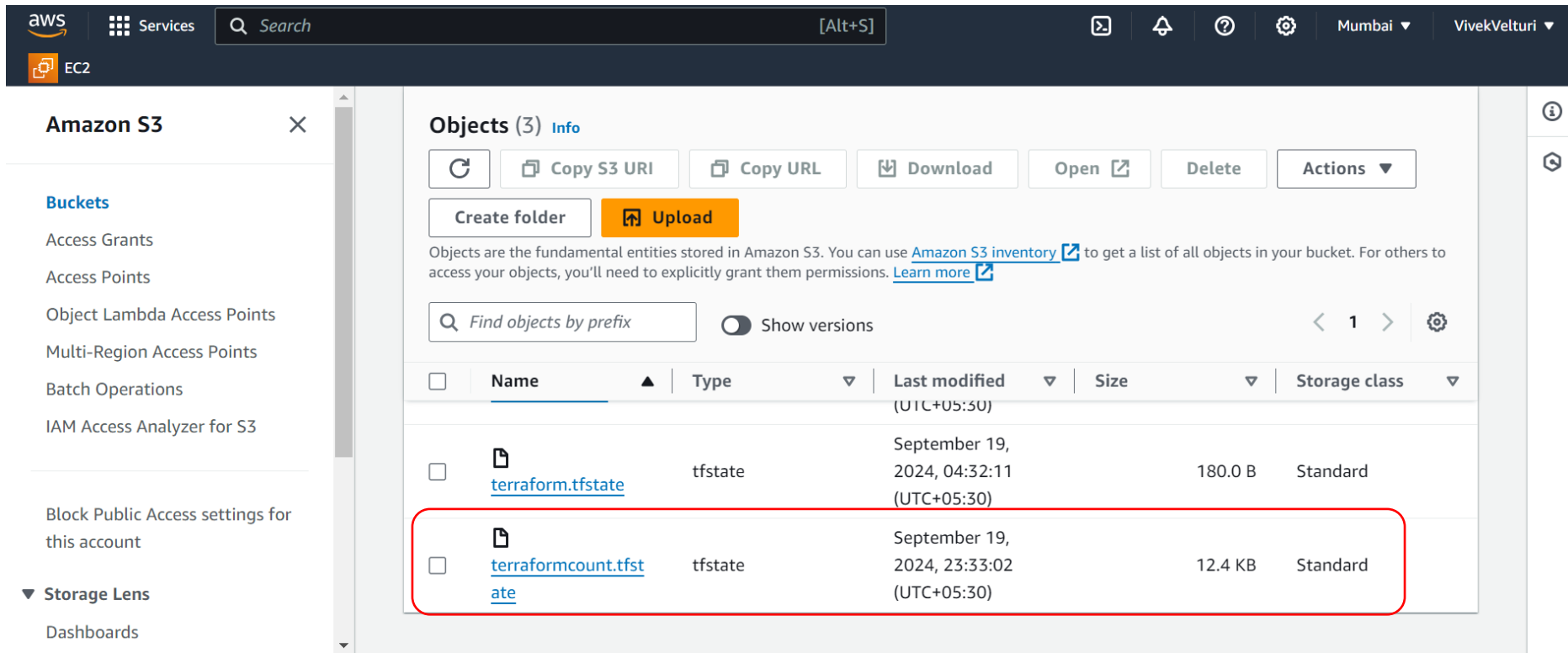
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State File in S3 Bucket:



The screenshot shows the AWS Management Console interface for the Amazon S3 console. The top navigation bar includes the AWS logo, Services menu, a search bar, and user information (Mumbai, VivekVelturi). The left sidebar shows the navigation menu with 'Amazon S3' selected. The main content area displays the 'Objects (3)' view of a bucket. A red rectangle highlights the object 'terraformcount.tfstate' in the table.

Amazon S3 ×

Buckets

- Access Grants
- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

▼ **Storage Lens**

- Dashboards

Objects (3) [Info](#)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) ▼

[Create folder](#) [Upload](#)

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](#)

☐ Show versions < 1 > [Settings](#)

<input type="checkbox"/>	Name	Type	Last modified (UTC+05:30)	Size	Storage class
<input type="checkbox"/>	terraform.tfstate	tfstate	September 19, 2024, 04:32:11 (UTC+05:30)	180.0 B	Standard
<input type="checkbox"/>	terraformcount.tfstate	tfstate	September 19, 2024, 23:33:02 (UTC+05:30)	12.4 KB	Standard

Terraformcount state file JSON Format:

```
"terraform_version": "1.9.5",
"serial": 1,
"lineage": "edc21db6-dfd2-d98f-467c-ffa1660d67a5",
"outputs": {
  "OutputInstance_public_ip": {
    "value": [
      "13.127.55.157",
      "3.110.169.9"
    ],
    "type": [
      "tuple",
      [
        "string",
        "string"
      ]
    ]
  }
},
"resources": [
  {
    "mode": "data",
    "type": "aws_ami",
    "name": "ec2ami",
    "provider": "provider[\"registry.terraform.io/hashicorp/aws\"]",
    "instances": [
      {
        "schema_version": 0,
        "attributes": {
          "architecture": "x86_64",
          "arn": "arn:aws:ec2:ap-south-1::image/ami-06f855639265b5541",
          "block_device_mappings": [
            {
              "device_name": "/dev/xvda",
              "ebs": {
                "delete_on_termination": "true",
                "encrypted": "false",
                "iops": "0",
```

```
        "snapshot_id": "snap-01b285d322823c5b1",
        "throughput": "0",
        "volume_size": "8",
        "volume_type": "gp2"
    },
    "no_device": "",
    "virtual_name": ""
}
],
"boot_mode": "",
"creation_date": "2024-09-16T19:09:46.000Z",
"deprecation_time": "2025-07-01T00:00:00.000Z",
"description": "Amazon Linux 2 Kernel 5.10 AMI 2.0.20240916.0 x86_64 HVM gp2",
"ena_support": true,
"executable_users": null,
"filter": [
    {
        "name": "name",
        "values": [
            "amzn2-ami-kernel-5.1*"
        ]
    },
    {
        "name": "root-device-type",
        "values": [
            "ebs"
        ]
    },
    {
        "name": "virtualization-type",
        "values": [
            "hvm"
        ]
    }
],
"hypervisor": "xen",
"id": "ami-06f855639265b5541",
"image_id": "ami-06f855639265b5541",
"image_location": "amazon/amzn2-ami-kernel-5.10-hvm-2.0.20240916.0-x86_64-gp2",
```

```
    "image_owner_alias": "amazon",
    "image_type": "machine",
    "imds_support": "",
    "include_deprecated": false,
    "kernel_id": "",
    "most_recent": true,
    "name": "amzn2-ami-kernel-5.10-hvm-2.0.20240916.0-x86_64-gp2",
    "name_regex": null,
    "owner_id": "137112412989",
    "owners": null,
    "platform": "",
    "platform_details": "Linux/UNIX",
    "product_codes": [],
    "public": true,
    "ramdisk_id": "",
    "root_device_name": "/dev/xvda",
    "root_device_type": "ebs",
    "root_snapshot_id": "snap-01b285d322823c5b1",
    "sriov_net_support": "simple",
    "state": "available",
    "state_reason": {
      "code": "UNSET",
      "message": "UNSET"
    },
    "tags": {

    },
    "timeouts": null,
    "tpm_support": "",
    "usage_operation": "RunInstances",
    "virtualization_type": "hvm"
  },
  "sensitive_attributes": []
}
]
},
{
  "mode": "managed",
  "type": "aws_instance",
```

```
"name": "LinuxServerEC2",
"provider": "provider[\"registry.terraform.io/hashicorp/aws\"]",
"instances": [
  {
    "index_key": 0,
    "schema_version": 1,
    "attributes": {
      "ami": "ami-06f855639265b5541",
      "arn": "arn:aws:ec2:ap-south-1:245712304097:instance/i-02267f892736a93f2",
      "associate_public_ip_address": true,
      "availability_zone": "ap-south-1a",
      "capacity_reservation_specification": [
        {
          "capacity_reservation_preference": "open",
          "capacity_reservation_target": []
        }
      ],
      "cpu_core_count": 1,
      "cpu_options": [
        {
          "amd_sev_snp": "",
          "core_count": 1,
          "threads_per_core": 1
        }
      ],
      "cpu_threads_per_core": 1,
      "credit_specification": [
        {
          "cpu_credits": "standard"
        }
      ],
      "disable_api_stop": false,
      "disable_api_termination": false,
      "ebs_block_device": [],
      "ebs_optimized": false,
      "enclave_options": [
        {
          "enabled": false
        }
      ]
    }
  }
]
```

```
],
"ephemeral_block_device": [],
"get_password_data": false,
"hibernation": false,
"host_id": "",
"host_resource_group_arn": null,
"iam_instance_profile": "",
"id": "i-02267f892736a93f2",
"instance_initiated_shutdown_behavior": "stop",
"instance_lifecycle": "",
"instance_market_options": [],
"instance_state": "running",
"instance_type": "t2.micro",
"ipv6_address_count": 0,
"ipv6_addresses": [],
"key_name": "vivekpem",
"launch_template": [],
"maintenance_options": [
  {
    "auto_recovery": "default"
  }
],
"metadata_options": [
  {
    "http_endpoint": "enabled",
    "http_protocol_ipv6": "disabled",
    "http_put_response_hop_limit": 1,
    "http_tokens": "optional",
    "instance_metadata_tags": "disabled"
  }
],
"monitoring": false,
"network_interface": [],
"outpost_arn": "",
"password_data": "",
"placement_group": "",
"placement_partition_number": 0,
"primary_network_interface_id": "eni-0decf00396f724c67",
"private_dns": "ip-192-168-0-56.ap-south-1.compute.internal",
```



```
"private_dns_name_options": [
  {
    "enable_resource_name_dns_a_record": false,
    "enable_resource_name_dns_aaaa_record": false,
    "hostname_type": "ip-name"
  }
],
"private_ip": "192.168.0.56",
"public_dns": "",
"public_ip": "13.127.55.157",
"root_block_device": [
  {
    "delete_on_termination": true,
    "device_name": "/dev/xvda",
    "encrypted": false,
    "iops": 100,
    "kms_key_id": "",
    "tags": {

    },
    "tags_all": {

    },
    "throughput": 0,
    "volume_id": "vol-01d7cef3a7a238aec",
    "volume_size": 8,
    "volume_type": "gp2"
  }
],
"secondary_private_ips": [],
"security_groups": [],
"source_dest_check": true,
"spot_instance_request_id": "",
"subnet_id": "subnet-006b586c0d566eeaa",
"tags": {
  "Name": "AWS Training-Vivek 0"
},
"tags_all": {
  "Name": "AWS Training-Vivek 0"
```

```

    },
    "tenancy": "default",
    "timeouts": null,
    "user_data": null,
    "user_data_base64": null,
    "user_data_replace_on_change": false,
    "volume_tags": null,
    "vpc_security_group_ids": [
        "sg-077a397e58dc270bd"
    ]
},
"sensitive_attributes": [],
"private":
"eyJlMmJmYjczMC1lY2FhLTExZTYtOGY4OC0zNDM2M2JjN2M0YzAiOnsiY3JlYXRlIjoi2MDAwMDAwMDAwMDAsImRlbGV0ZSI6MTIwMDAwMDAwMDAwMCw",
icmVhZCI6OTAwMDAwMDAwMDAwLCJlcGRhdGUiOiYwMDAwMDAwMDAwMH0sInNjaGVtYV92ZXJzaW9uIjoIMSJ9",
    "dependencies": [
        "data.aws_ami.ec2ami"
    ]
},
{
    "index_key": 1,
    "schema_version": 1,
    "attributes": {
        "ami": "ami-06f855639265b5541",
        "arn": "arn:aws:ec2:ap-south-1:245712304097:instance/i-0c40b88de74f71ad5",
        "associate_public_ip_address": true,
        "availability_zone": "ap-south-1a",
        "capacity_reservation_specification": [
            {
                "capacity_reservation_preference": "open",
                "capacity_reservation_target": []
            }
        ],
        "cpu_core_count": 1,
        "cpu_options": [
            {
                "amd_sev_snp": "",
                "core_count": 1,
                "threads_per_core": 1
            }
        ]
    }
}

```

```
    }
  ],
  "cpu_threads_per_core": 1,
  "credit_specification": [
    {
      "cpu_credits": "standard"
    }
  ],
  "disable_api_stop": false,
  "disable_api_termination": false,
  "ebs_block_device": [],
  "ebs_optimized": false,
  "enclave_options": [
    {
      "enabled": false
    }
  ],
  "ephemeral_block_device": [],
  "get_password_data": false,
  "hibernation": false,
  "host_id": "",
  "host_resource_group_arn": null,
  "iam_instance_profile": "",
  "id": "i-0c40b88de74f71ad5",
  "instance_initiated_shutdown_behavior": "stop",
  "instance_lifecycle": "",
  "instance_market_options": [],
  "instance_state": "running",
  "instance_type": "t2.micro",
  "ipv6_address_count": 0,
  "ipv6_addresses": [],
  "key_name": "vivekpm",
  "launch_template": [],
  "maintenance_options": [
    {
      "auto_recovery": "default"
    }
  ],
  "metadata_options": [
```

```
    {
      "http_endpoint": "enabled",
      "http_protocol_ipv6": "disabled",
      "http_put_response_hop_limit": 1,
      "http_tokens": "optional",
      "instance_metadata_tags": "disabled"
    }
  ],
  "monitoring": false,
  "network_interface": [],
  "outpost_arn": "",
  "password_data": "",
  "placement_group": "",
  "placement_partition_number": 0,
  "primary_network_interface_id": "eni-072586b11ca399a88",
  "private_dns": "ip-192-168-0-55.ap-south-1.compute.internal",
  "private_dns_name_options": [
    {
      "enable_resource_name_dns_a_record": false,
      "enable_resource_name_dns_aaaa_record": false,
      "hostname_type": "ip-name"
    }
  ],
  "private_ip": "192.168.0.55",
  "public_dns": "",
  "public_ip": "3.110.169.9",
  "root_block_device": [
    {
      "delete_on_termination": true,
      "device_name": "/dev/xvda",
      "encrypted": false,
      "iops": 100,
      "kms_key_id": "",
      "tags": {

      },
      "tags_all": {

      }
    }
  ],
```

```

        "throughput": 0,
        "volume_id": "vol-029b445a27bb5c473",
        "volume_size": 8,
        "volume_type": "gp2"
    }
],
"secondary_private_ips": [],
"security_groups": [],
"source_dest_check": true,
"spot_instance_request_id": "",
"subnet_id": "subnet-006b586c0d566eeaa",
"tags": {
    "Name": "AWS Training-Vivek 1"
},
"tags_all": {
    "Name": "AWS Training-Vivek 1"
},
"tenancy": "default",
"timeouts": null,
"user_data": null,
"user_data_base64": null,
"user_data_replace_on_change": false,
"volume_tags": null,
"vpc_security_group_ids": [
    "sg-077a397e58dc270bd"
]
},
"sensitive_attributes": [],
"private":
"eyJlMmJmYjczMCI1Y2FhLTExZTYtOGY4OC0zNDM2M2JjN2M0YzAiOnsiY3JlYXRlIjoi2MDAwMDAwMDAwMDAsImRlbGV0ZSI6MTIwMDAwMDAwMDAwMCwicmVhZCI6OTAwMDAwMDAwMDAwLCJlcGRhdGUiojYwMDAwMDAwMDAwMH0sInNjaGVtYV92ZXJzaW9uIjoiaMSJ9",
    "dependencies": [
        "data.aws_ami.ec2ami"
    ]
}
]
}
],
"check_results": null }

```