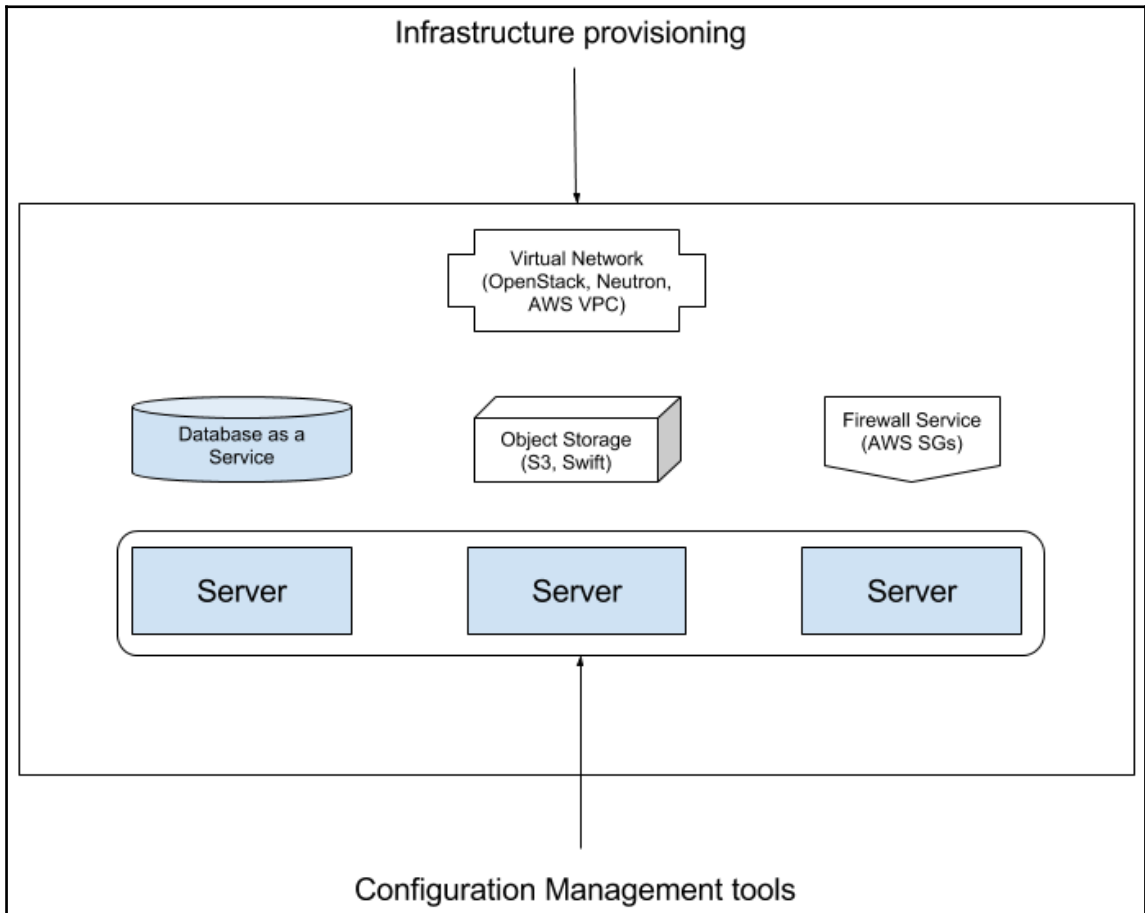
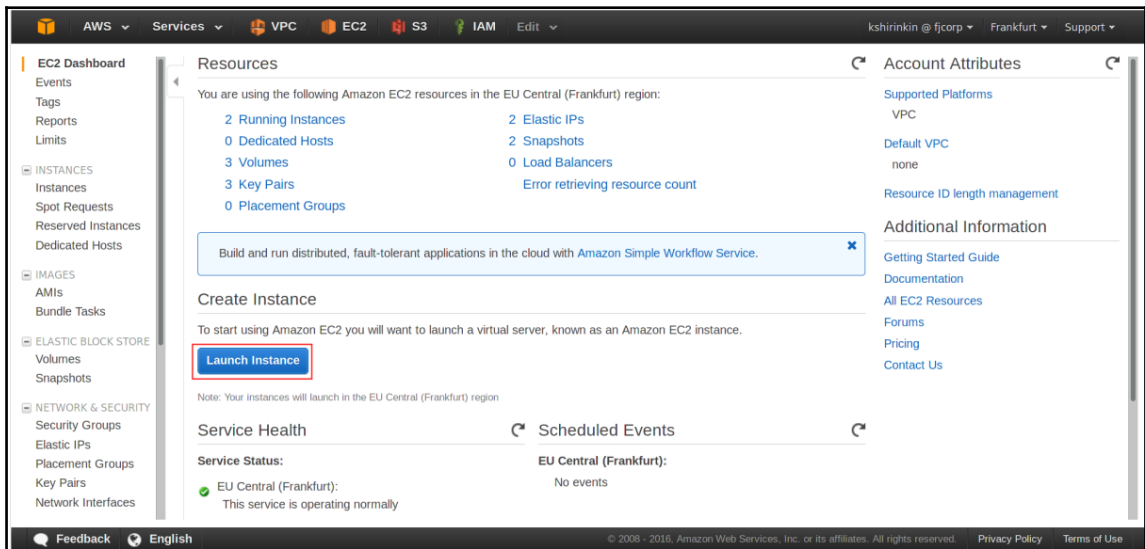
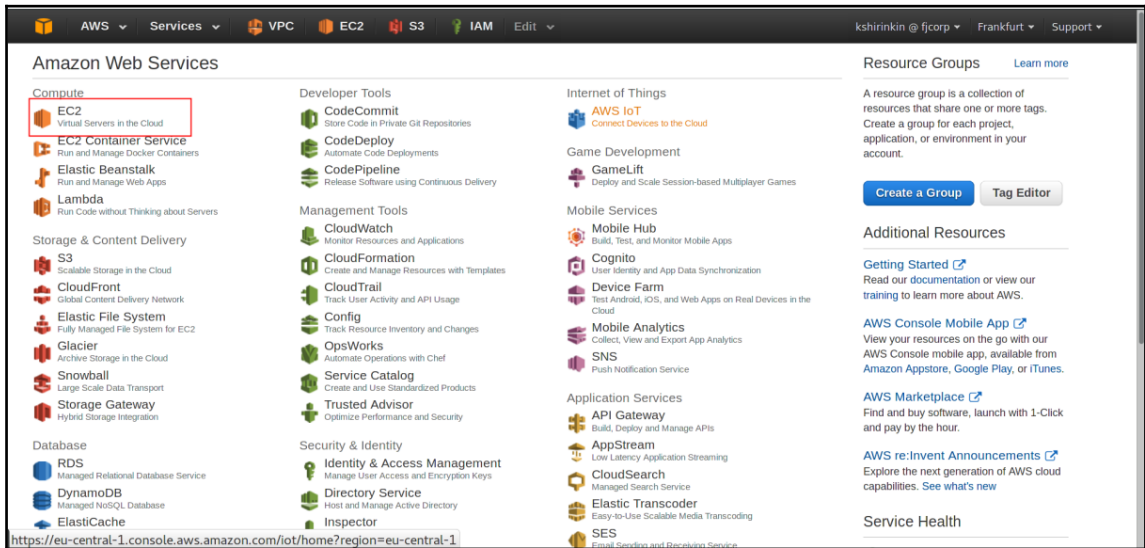


Graphics Bundle

Chapter 1 : Infrastructure Automation



Chapter 2: Deploying First Server



AWS Services VPC EC2 S3 IAM Edit

kshirinkin@fjcorp Frankfurt Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

Step 1: Choose an Amazon Machine Image (AMI) Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start

My AMIs

AWS Marketplace

Community AMIs

Categories

All Categories

- Software Infrastructure (35)
- Developer Tools (4)
- Business Software (2)

Operating System

CentOS 7 (x86_64) - with Updates HVM

★★★★★ (43) | 1602 | Sold by [Centos.org](#)

Free tier eligible

\$0.00/hr for software + AWS usage fees

Linux/Unix, CentOS 7 | 64-bit Amazon Machine Image (AMI) | Updated: 2/29/16

This is the Official CentOS 7 x86_64 HVM image that has been built with a minimal profile, suitable for use in HVM instance types only. The image contains just enough ...

[More info](#)

Select

CentOS 6 (x86_64) - with Updates HVM

★★★★★ (32) | 1602 | Sold by [Centos.org](#)

Free tier eligible

\$0.00/hr for software + AWS usage fees

Linux/Unix, CentOS 6 | 64-bit Amazon Machine Image (AMI) | Updated: 2/29/16

Select

Launch Status

✔ **Your instances are now launching**

The following instance launches have been initiated: [i-07c9a7efbff6fc254](#) [View launch log](#)

ℹ **Get notified of estimated charges**

Create [billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an

AWS Services VPC EC2 S3 IAM Edit Kirill Shirinkin Global Support

Your Security Credentials

Use this page to manage the credentials for your AWS account. To manage credentials for AWS Identity and Access Management (IAM) users, see [IAM Users and Groups](#). To learn more about the types of AWS credentials and how they're used, see [AWS Security Credentials](#) in [AWS General Reference](#).

- +
- +
- +
- +
- +
- +

My Account
Billing & Cost Management
Security Credentials
Sign Out

Search IAM

Details

Groups

Users

Roles

Policies

Identity Providers

Account Settings

Credential Report

Encryption Keys

AWS Services VPC EC2 S3 IAM Edit Kirill Shirinkin Frankfurt Support

Launch Instance Connect Actions

search : hello-instance Add filter

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS
hello-instance	i-119a10ac	t2.micro	eu-central-1a	running	Initializing	None	

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Spot Requests

Reserved Instances

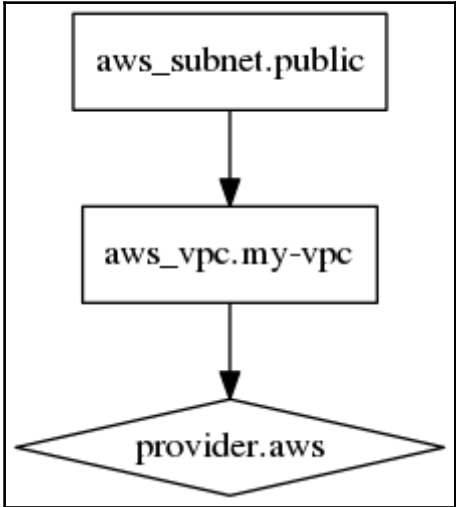
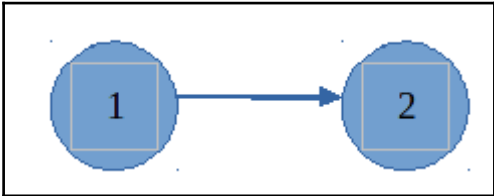
Dedicated Hosts

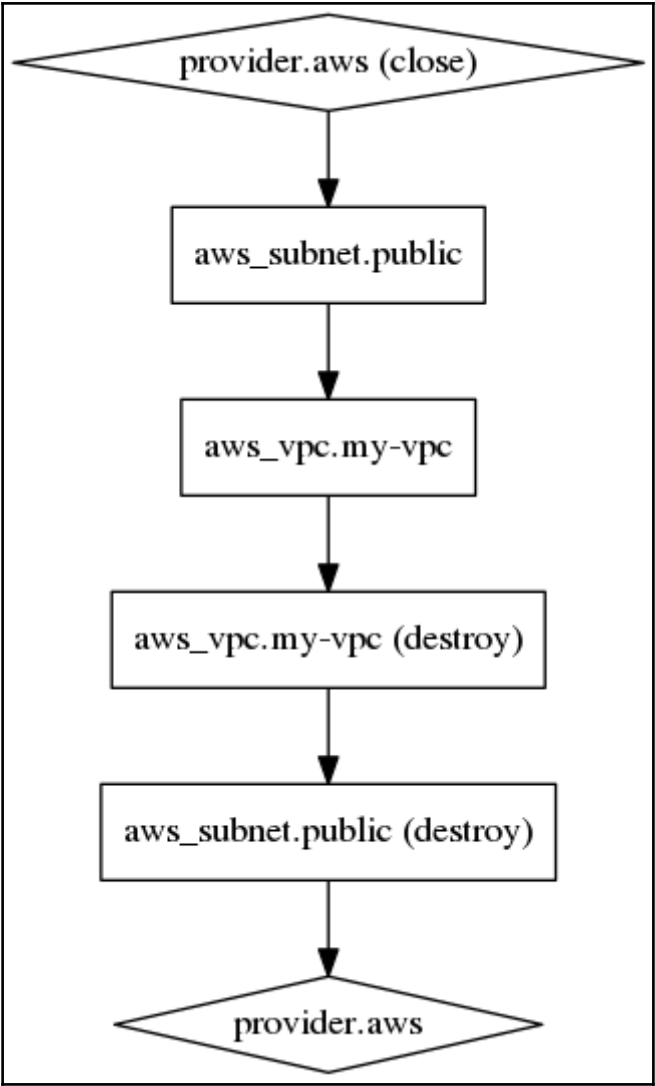
IMAGES

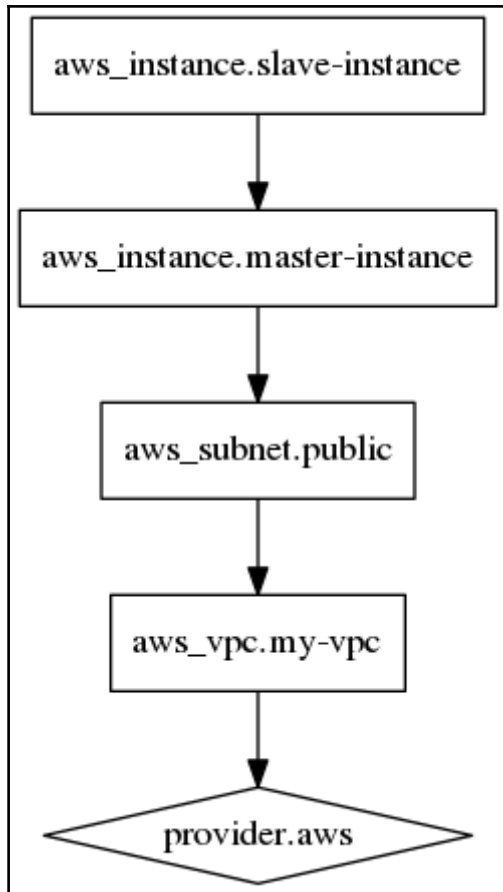
AMIs

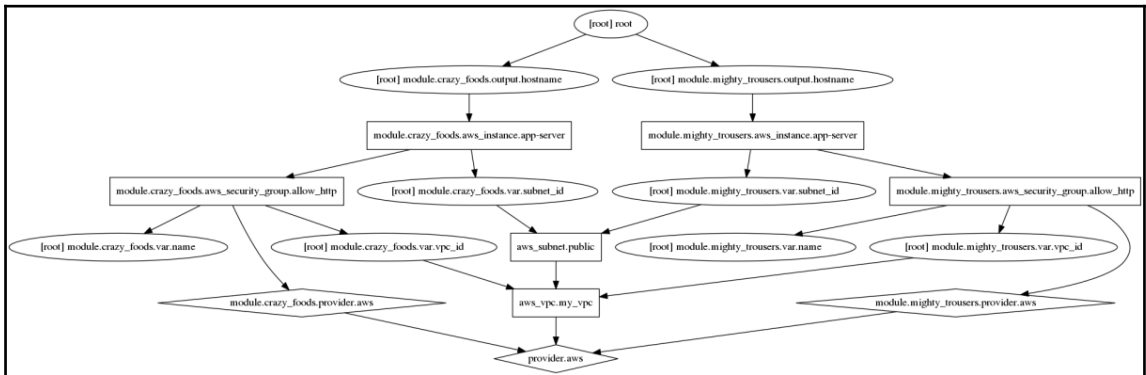
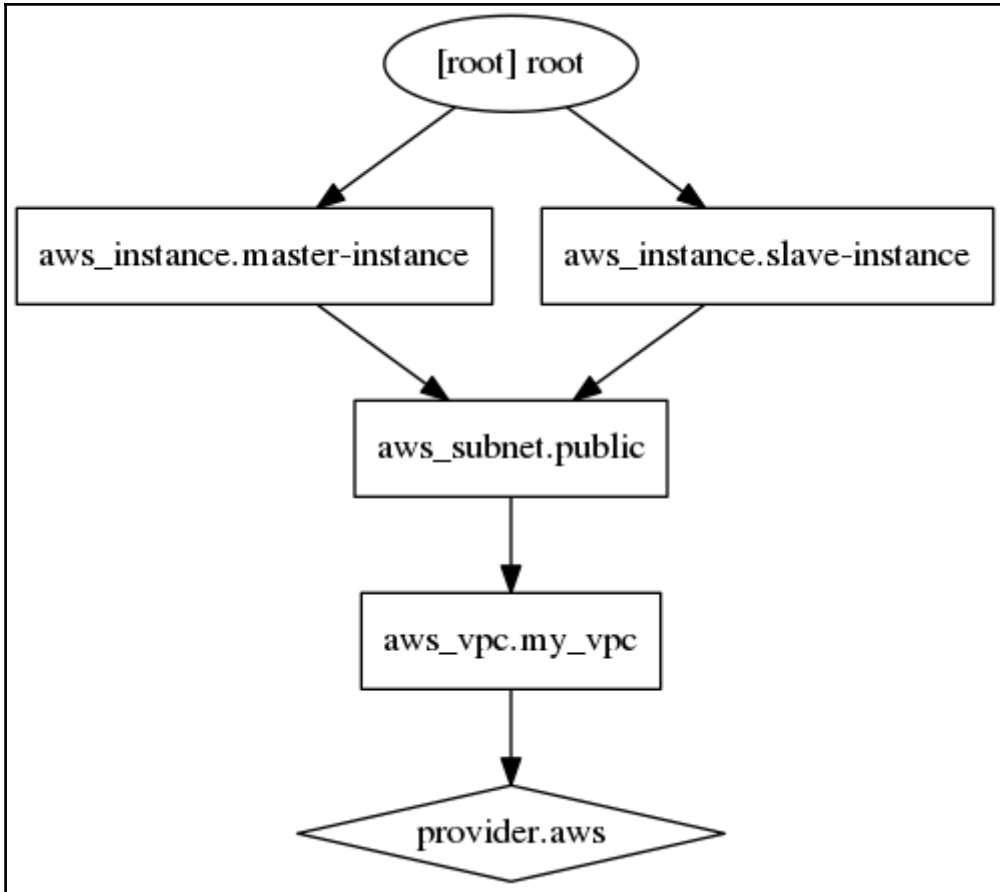
Bundle Tasks

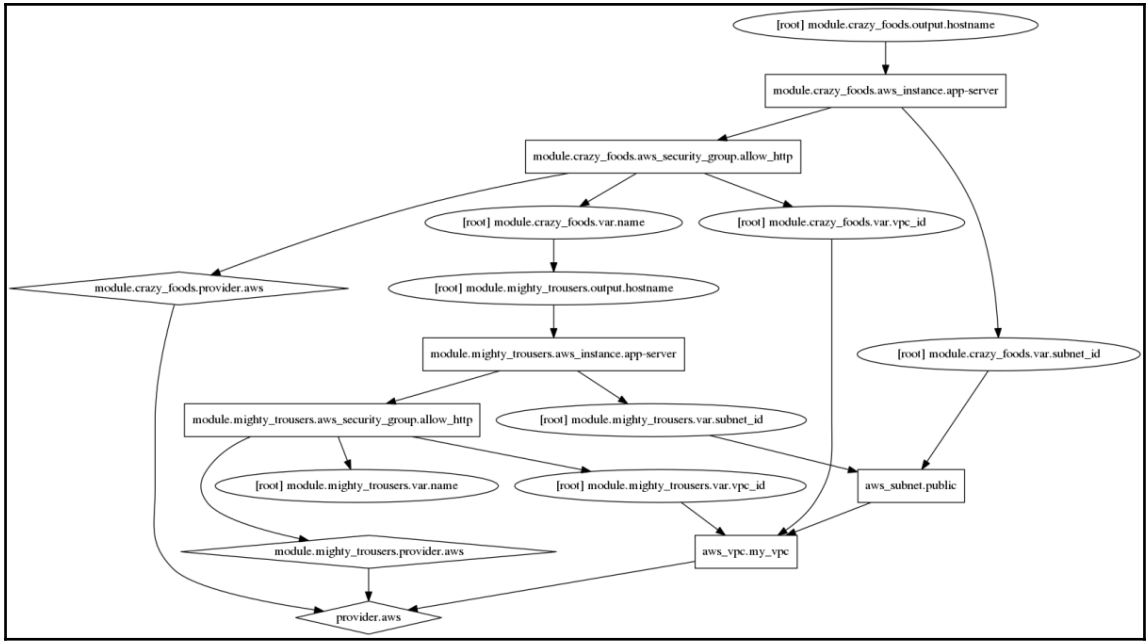
Chapter 3: Resource Dependencies and Modules











Chapter 4: Storing and Supplying Configuration

Create VPC ✕


A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. Use the Classless Inter-Domain Routing (CIDR) block format to specify your VPC's contiguous IP address range, for example, 10.0.0.0/16. You cannot create a VPC larger than /16.

Name tag ⓘ

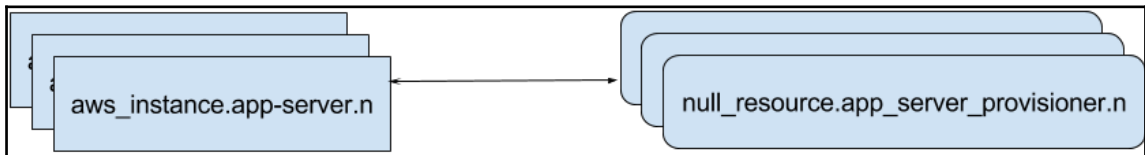
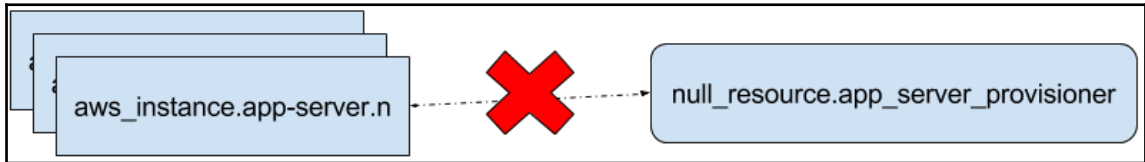
CIDR block ⓘ

Tenancy ⓘ

[Cancel](#) [Yes, Create](#)

<input checked="" type="checkbox"/>	management_layer		vpc-ace803c4	available	172.0.32.0/24	dopt-b82bc8d1	rtb-8a5199e2	acl-96418cfe	Default
-------------------------------------	------------------	---	--------------	-----------	---------------	---------------	--------------	--------------	---------

Chapter 6: Scaling and Updating Infrastructure



Testing 123..

This page is used to test the proper operation of the [Apache HTTP server](#) after it has been installed. If you can read this page it means that this site is working properly. This server is powered by [CentOS](#).

Just visiting?

The website you just visited is either experiencing problems or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

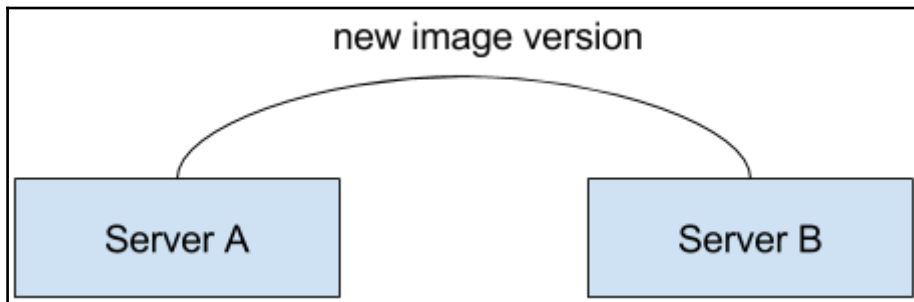
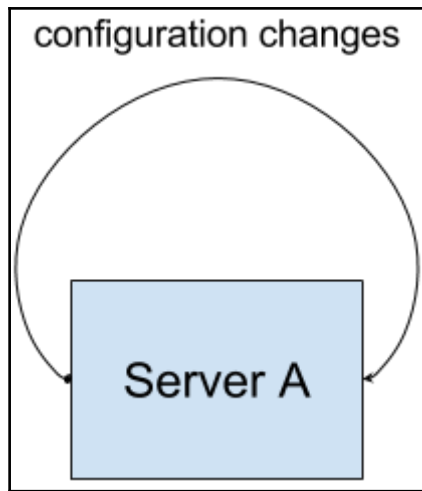
Are you the Administrator?

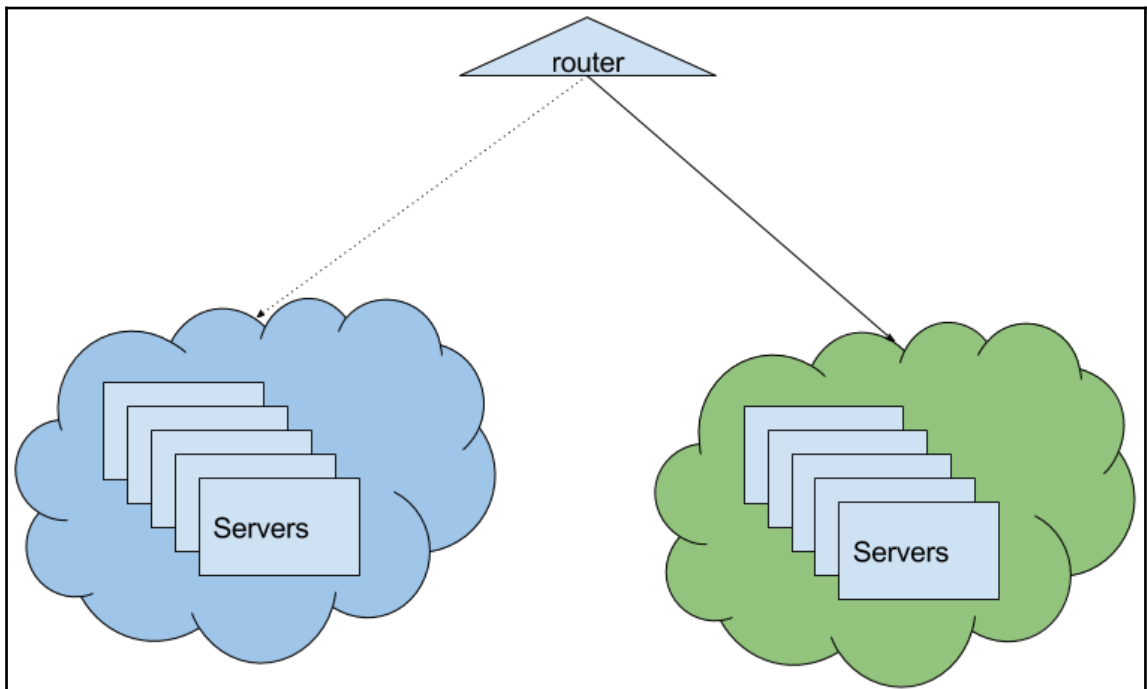
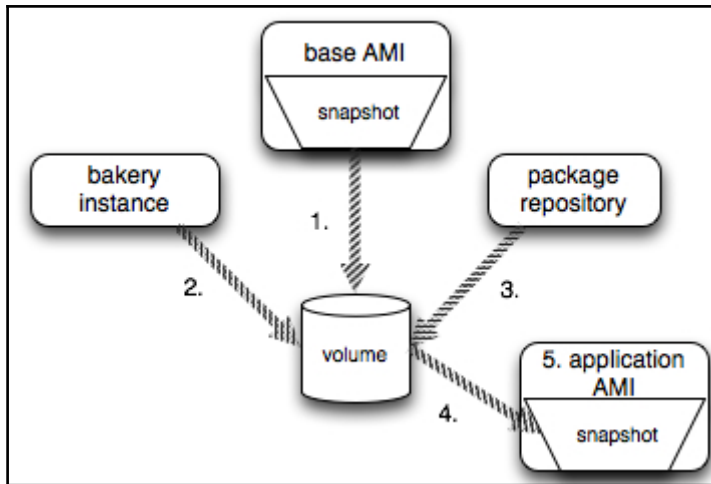
You should add your website content to the directory `/var/www/html/`.

To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

Promoting Apache and CentOS

You are free to use the images below on Apache and CentOS Linux powered HTTP servers. Thanks for using Apache and CentOS!





Edit DNS Hostnames ✕

DNS Hostnames Yes No

[Cancel](#) [Save](#)

Create a NAT Gateway ✕

Create a NAT gateway and assign it an Elastic IP address. [Learn more](#)

Subnet* ⓘ

Elastic IP Allocation ID* [Create New EIP](#) ⓘ

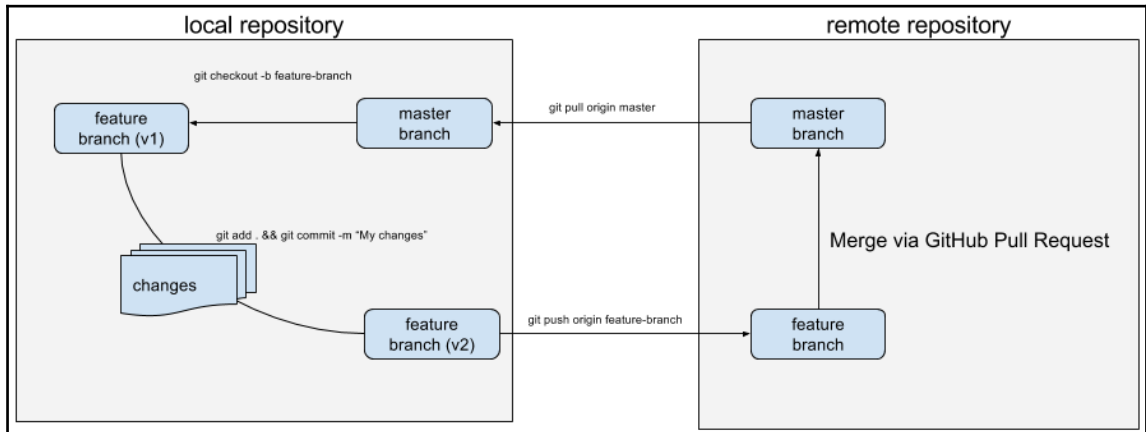
New EIP (35.156.117.179) creation successful.

[Cancel](#) [Create a NAT Gateway](#)

Filter by attributes or search by keyword

NAT Gateway ID	Status	Elastic IP Address	Private IP Address	Network Interface I	VPC	Subnet	Created	Deleted
nat-034caa3c2000cd7fb	Pending		10.0.1.120	eni-ed057f80	vpc-1d04fc75	subnet-ebd96783	November 21, 2016 at 10:03:0...	

Chapter 7: Collaborative Infrastructure



Create a Bucket - Select a Bucket Name and Region Cancel

A bucket is a container for objects stored in Amazon S3. When creating a bucket, you can choose a Region to optimize for latency, minimize costs, or address regulatory requirements. For more information regarding bucket naming conventions, please visit the [Amazon S3 documentation](#).

Bucket Name:

Region:

Create a Bucket - Select a Bucket Name and Region Cancel

Enable logging for your bucket to get detailed access logs delivered to the bucket of your choice.

Enabled:

Target Bucket:

Target Prefix:

Bucket: packt-terraform x

Bucket: packt-terraform
Region: Frankfurt
Creation Date: Mon Nov 28 09:43:42 GMT+100 2016
Owner: 7a031bd83e37b4ffa045a9fba98055a680faa45096218b29d1bc6041da5a2034

- ▶ Permissions
- ▶ Static Website Hosting
- ▶ Logging
- ▶ Events
- ▼ Versioning

Versioning allows you to preserve, retrieve, and restore every version of every object stored in this bucket. This provides an additional level of protection by providing a means of recovery for accidental overwrites or expirations. Versioning-enabled buckets store all versions of your objects by default.

You can use Lifecycle rules to manage all versions of your objects as well as their associated costs. Lifecycle rules enable you to automatically archive your objects to the Glacier Storage Class and/or remove them after a specified time period.

Once enabled, Versioning cannot be disabled, only suspended.

Versioning is currently not enabled on this bucket.

←

Services ▾ Resource Groups ▾ EC2 VPC S3

kshirinkin @ fcorp ▾ Global ▾ Support

Lifecycle Rules

Step 1: Choose Rule Target

Step 2: **Configure Rule**

Step 3: Review and Name

- Transition to the Standard - Infrequent Access Storage Class** Days after the object's creation date
Standard - Infrequent Access has a 30-day minimum retention period and a 128KB minimum object size. Lifecycle policy will not transition objects that are less than 128KB. Refer [here](#) to learn more about Standard - Infrequent Access.
- Archive to the Glacier Storage Class** Days after the object's creation date
This rule could reduce your storage costs. Refer [here](#) to learn more about Glacier pricing. Note that objects archived to the Glacier Storage Class are [not immediately accessible](#).
- Expire** Days after the object's creation date
For versioning-enabled buckets, an expire will retain the current version as a previous version and place a delete marker as the current version. If you wish to permanently delete previous versions, combine the **Expire** action here with the **Permanently Delete** previous versions action below.

Action on Previous Versions

- Transition to the Standard - Infrequent Access Storage Class** Days after becoming a previous version
Standard - Infrequent Access has a 30-day minimum retention period and a 128KB minimum object size. Lifecycle policy will not transition objects that are less than 128KB. Refer [here](#) to learn more about Standard - Infrequent Access.
- Archive to the Glacier Storage Class** Days after becoming a previous version
This rule could reduce your storage costs. Refer [here](#) to learn more about Glacier pricing. Note that objects archived to the Glacier Storage Class are [not immediately accessible](#).
- Permanently Delete** Days after becoming a previous version
This rule will permanently delete a previous version of an object as the version becomes eligible for expiration. You cannot recover permanently deleted versions of objects.

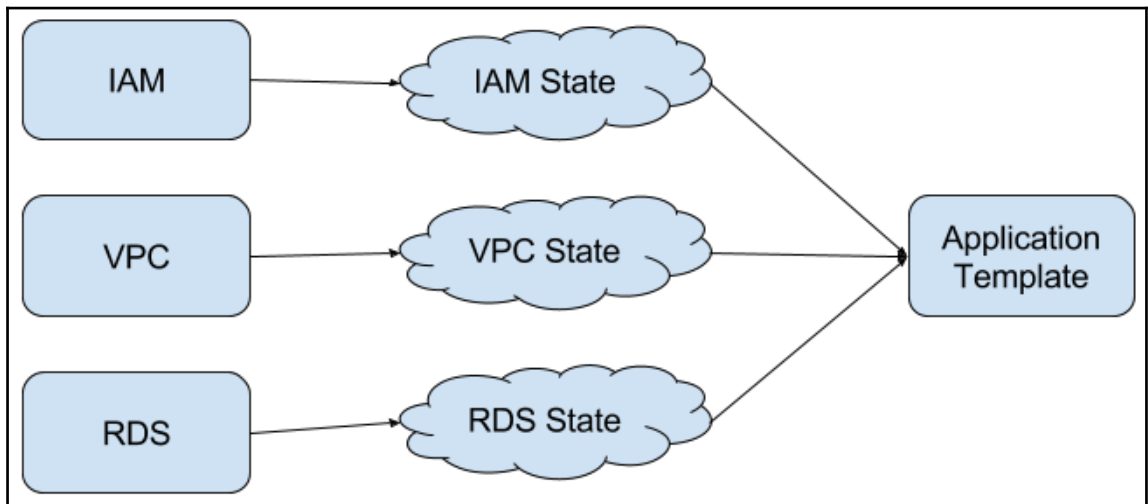
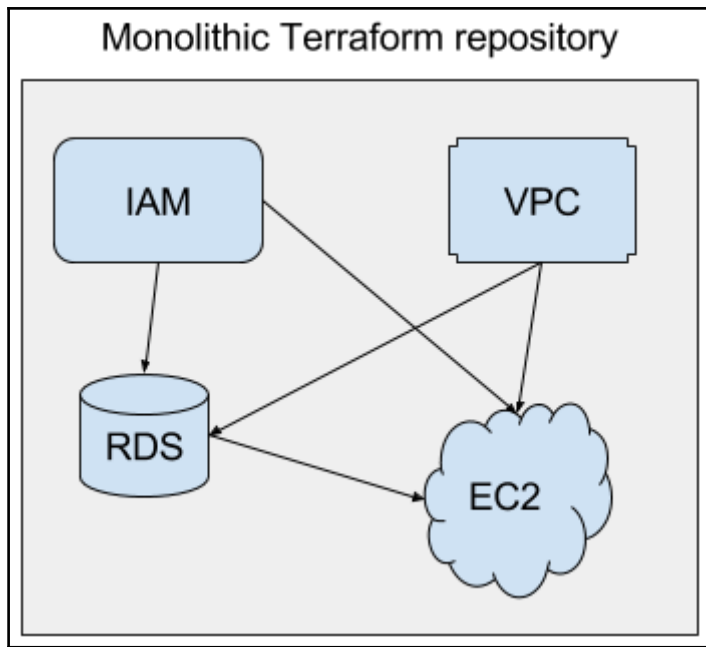
Cancel < Set Target Review >

Services ▾ Resource Groups ▾

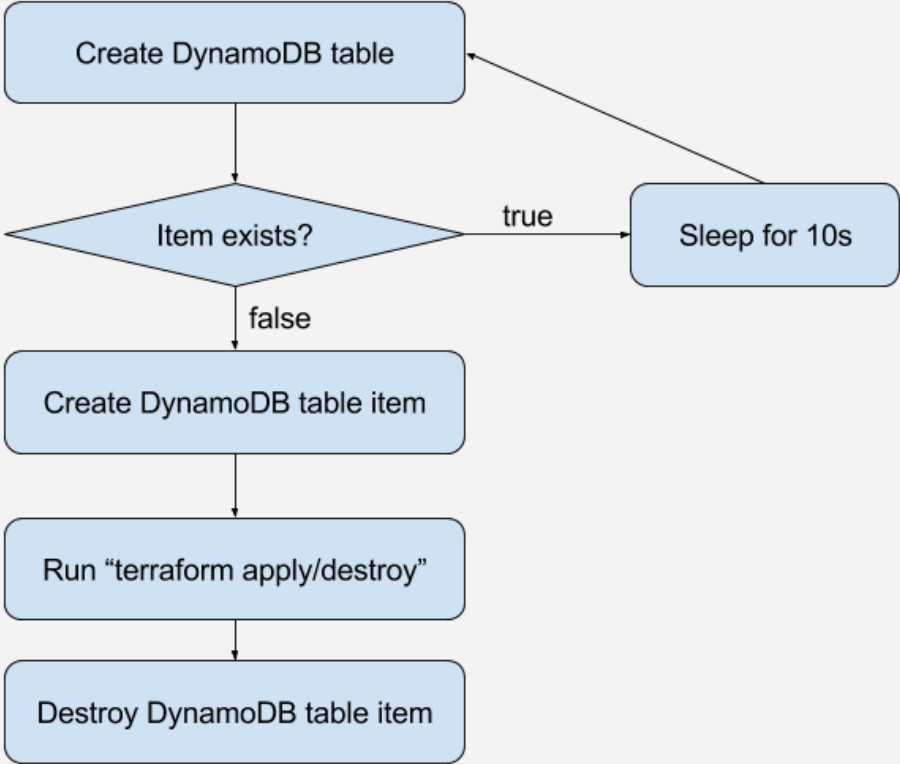
Upload Create Folder Actions ▾ Versions: Hide Show

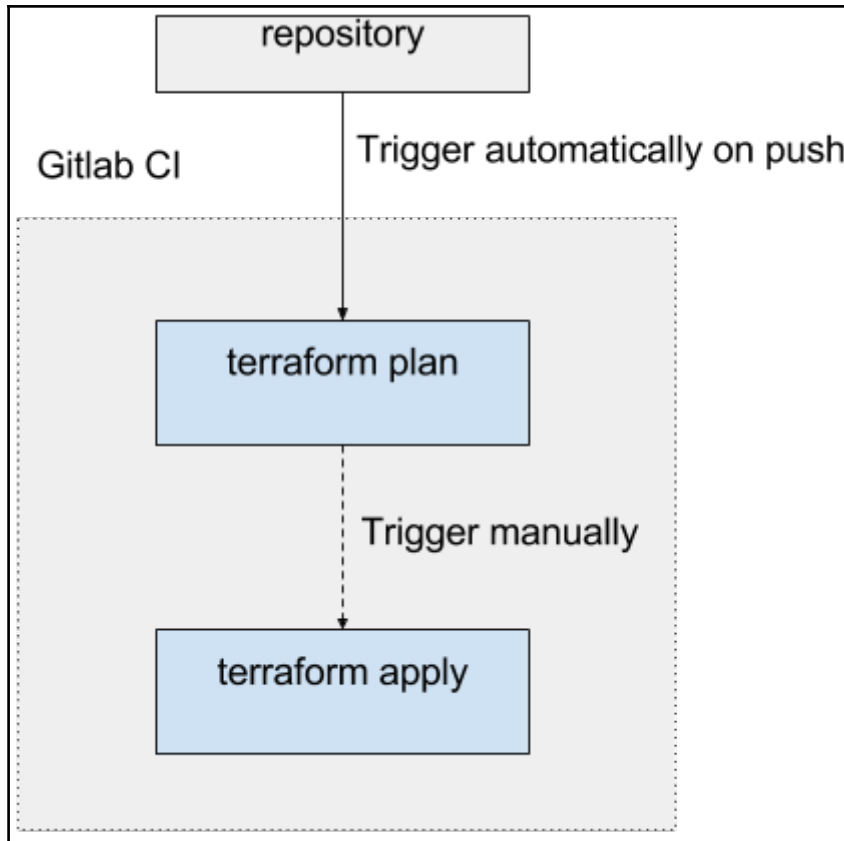
All Buckets / packt-terraform / mighty_trousers

	Name / Version	Create Date
	terraform.tfstate	
<input type="checkbox"/>		Mon Nov 28 09:57:37 GMT+100 2016
<input type="checkbox"/>		Mon Nov 28 09:56:08 GMT+100 2016
<input type="checkbox"/>		Mon Nov 28 09:54:56 GMT+100 2016



terragrunt apply/destroy





Details Permissions Review

Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name*

[+ Add another user](#)

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type* **Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

AWS Management Console access
Enables a **password** that allows users to sign-in to the AWS Management Console.

Users: gitlab-service-account

User ARN arn:aws:iam::236110368157:user/gitlab-service-account
Path /
Creation time 2016-12-12 16:09 UTC+0100

Permissions **Groups (0)** **Security credentials** **Access Advisor**

Add permissions

Number of attached policies 5

- ▲ AmazonEC2FullAccess - AWS Managed policy
- ▲ IAMFullAccess - AWS Managed policy
- ▲ AmazonS3FullAccess - AWS Managed policy
- ▲ AmazonDynamoDBFullAccess - AWS Managed policy
- ▲ AmazonVPCFullAccess - AWS Managed policy

Project Activity Repository Pipelines Registry Graphs Issues 0 Merge Requests 0 Wiki



- Members
- Groups
- Deploy Keys
- Webhooks
- Services
- Protected Branches
- Runners
- Variables**
- Triggers
- CI/CD Pipelines
- Push Rules
- Mirror Repository
- Pages
- Audit Events
- Edit Project

Add a variable

Key

PROJECT_VARIABLE

Value

PROJECT_VARIABLE

Add new variable

Your variables (2)

Key	Value
AWS_ACCESS_KEY_ID	[REDACTED]
AWS_SECRET_ACCESS_KEY	[REDACTED]



Project Activity Repository **Pipelines** Registry Graphs Issues 0 Merge Requests 0 Wiki

```

user_data: "e3aa616aef2387ebb482c6524aa996c436b74d5b"
+ module.mighty_trousers.aws_security_group.allow_http
description: "Allow HTTP traffic"
egress.#: "1"
egress.482869346.cidr_blocks.#: "1"
egress.482869346.cidr_blocks.0: "0.0.0.0/0"
egress.482869346.from_port: "0"
egress.482869346.prefix_list_ids.#: "0"
egress.482869346.protocol: "-1"
egress.482869346.security_groups.#: "0"
egress.482869346.self: "false"
egress.482869346.to_port: "0"
ingress.#: "1"
ingress.2214688975.cidr_blocks.#: "1"
ingress.2214688975.cidr_blocks.0: "0.0.0.0/0"
ingress.2214688975.from_port: "80"
ingress.2214688975.protocol: "tcp"
ingress.2214688975.security_groups.#: "0"
ingress.2214688975.self: "false"
ingress.2214688975.to_port: "80"
name: "MightyTrousers allow_http"
owner_id: "<computed>"
vpc_id: "vpc-feeca96"

```

Plan: 6 to add, 0 to change, 0 to destroy.
Build succeeded


Build details
Duration: 21 seconds
Finished: about a minute ago
Runner: #21099

Raw Erase

Commit title
remove username from remote module specification

test

test

passed Pipeline #5362486 triggered about a minute ago by  Kirill Shirinkin

Add apply stage

passed 2 builds from master in 25 seconds (queued for 10 seconds)

865d99e3 ...

Pipeline Builds 2

Test **Deploy**

passed plan —▶ apply

All 16 Running 1 Branches Tags

Run pipeline CI Lint

Status	Pipeline	Commit	Stages
🔄 running	#5362596 by latest	<code>ψ master -o- 865d99e3</code> Add apply stage	🔄