

Mantou Enjoyer: Restaurant Online Ordering System

Proyek Akhir Mata Kuliah
Big Data Infrastructure and Technology

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Even Semester **2023**



Pendahuluan

Latar Belakang

Cloud computing adalah model pengiriman layanan komputasi melalui internet yang memungkinkan pengguna untuk mengakses sumber daya komputasi yang fleksibel, seperti server, database, software, dan layanan sebagainya, tanpa perlu memiliki infrastruktur fisik sendiri. Ide dasar dibalik Cloud computing adalah menyediakan sumber daya komputasi sebagai layanan yang dapat diakses dan dikelola melalui jaringan, dengan pengguna hanya membayar sebatas penggunaan yang mereka gunakan (Pay as You Go).

Pada tahun 2006, Amazon.com memperkenalkan Amazon Web Services (AWS) sebagai bagian dari upaya mereka untuk memanfaatkan infrastruktur yang sudah ada untuk memberikan layanan Cloud kepada pelanggan eksternal. Dalam beberapa tahun, AWS berkembang pesat dan menjadi salah satu penyedia layanan Cloud terbesar di dunia. AWS menyediakan berbagai layanan dan produk yang mencakup komputasi awan (EC2), penyimpanan awan (S3), basis data awan (RDS), jaringan awan (VPC), analisis data, AI dan banyak lagi. AWS memainkan peran penting dalam mendorong adopsi dan pengembangan konsep cloud computing. Mereka menyediakan solusi yang scalable, aman, dan reliable, yang memungkinkan perusahaan dari berbagai ukuran dan industri untuk memanfaatkannya. Keuntungan utama dari menggunakan AWS adalah kemampuan untuk mengurangi biaya investasi dalam infrastruktur fisik, meningkatkan skalabilitas, kecepatan implementasi, dan efisiensi operasional. AWS juga menyediakan alat pengelolaan yang komplek dan fleksibilitas.

Latar Belakang

Salah satu contoh bisnis yang memanfaatkan AWS adalah Mantou Enjoyer, sebuah restaurant berbasis website. Dengan menggunakan AWS sebagai platform Cloud computing, restaurant tersebut dapat mengoptimalkan operasional mereka dan memberikan pengalaman yang lebih baik kepada pelanggan. Misalnya, mereka dapat meng-host website mereka di AWS, menggunakan layanan Cloud storage untuk penyimpanan data serta menggunakan layanan lainnya untuk meningkatkan efisiensi operasional. Dengan memanfaatkan infrastruktur dan layanan yang disediakan oleh AWS, Mantou Enjoyer dapat fokus pada bisnis inti tanpa harus khawatir tentang infrastruktur teknologi yang kompleks juga mengubah cara restaurant beroperasi, meningkatkan efisiensi operasi, menghadirkan pengalaman pelanggan yang lebih baik, dan memberikan peluang baru untuk inovasi.

Kesimpulannya, AWS telah mengubah bagaimana sebuah bisnis beroperasional, termasuk dalam industri restaurant. Dengan mengadopsi layanan Cloud, restaurant seperti Mantou Enjoyer dapat mengurangi biaya infrastruktur, meningkatkan efisiensi, dan memberikan pengalaman yang lebih baik kepada pelanggan. AWS juga memberikan solusi yang meningkatkan berupa skalabilitas, aksesibilitas, securitas, dan manajemen operasional bagi Mantou Enjoyer.

Tujuan

Mantou Enjoyer

1) Memperluas Jangkauan Pasar dan Meningkatkan Penjualan

Informasi restaurant dapat diakses secara online melalui internet, sehingga jangkauan segmen pasar menjadi jauh lebih luas baik wisatawan maupun pelanggan dari luar kota yang sejalan dengan meningkatnya penjualan,

2) Meningkatkan Kualitas Restaurant

Mantou Enjoyer sangat terbuka dengan saran dan kritik yang dikirimkan pelanggan, dengan begitu kualitas restaurant dapat terus ditingkatkan agar memberikan pengalaman yang terbaik baik pengguna.

3) Memperkuat Citra Merek

Mantou Enjoyer menyajikan informasi yang lengkap tentang produk dan layanan secara informatif seperti produk, harga, ulasan, foto, dan deskripsi sehingga citra merek restaurant menjadi kuat bagi publik.

Manfaat

Implementasi Cloud

1) Skalabilitas

Cloud mempermudah Mantou Enjoyer untuk beradaptasi dengan pertumbuhan bisnis yang kian berubah. dalam hal ini, Mantou Enjoyer untuk bisa mengelola lonjakan permintaan pelanggan dengan meningkatkan kapasitas infrastruktur.

2) Aksesibilitas

Cloud memperluas jangkauan pelanggan untuk mengakses Mantou Enjoyer dari berbagai lokasi dan perangkat untuk melakukan pemesanan makanan dan merasakan pengalaman berkuliner di restoran yang luar biasa.

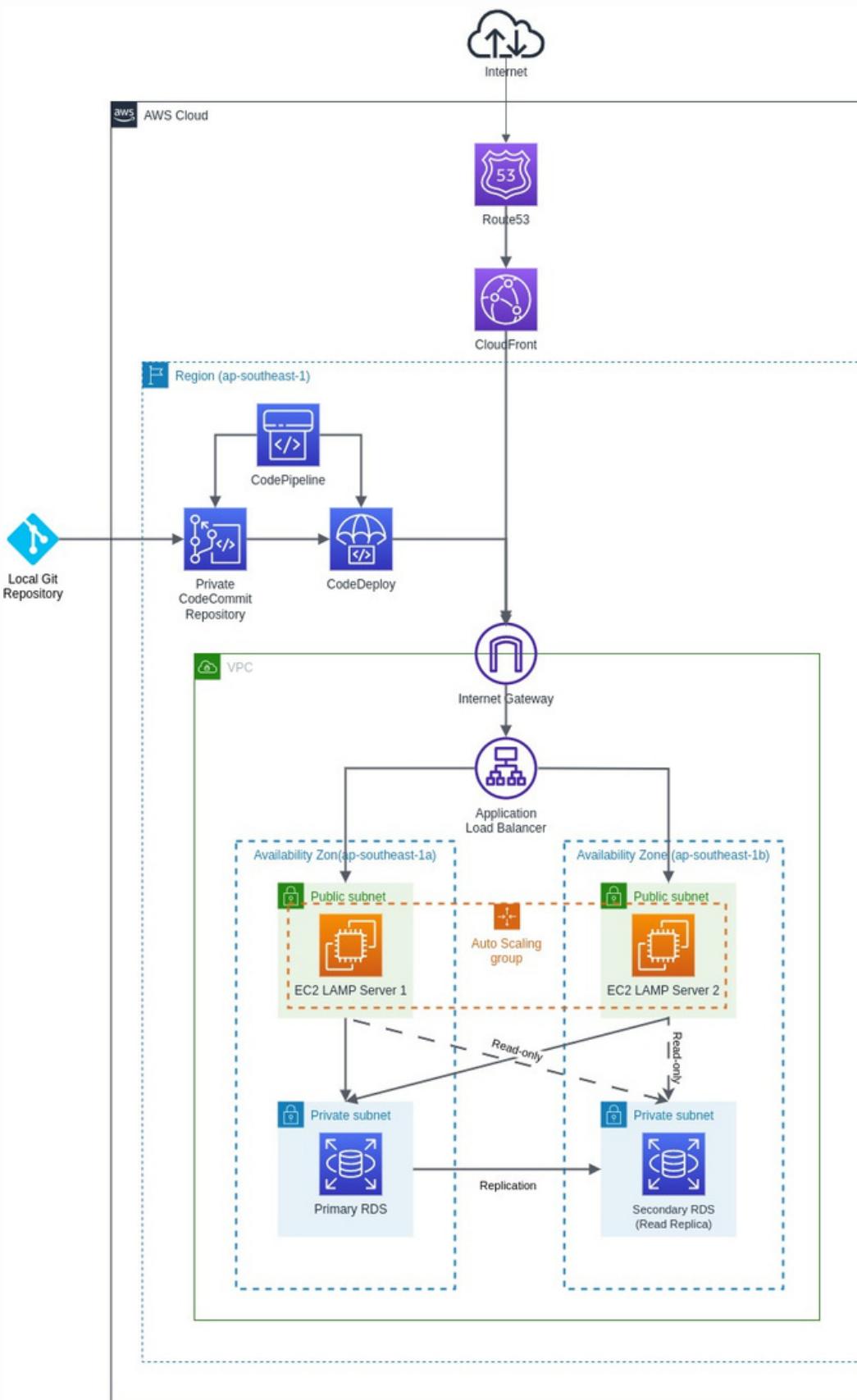
3) Sekuritas

Cloud menjamin pengelolaan data privasi pelanggan dan data transaksi Mantou Enjoyer dengan baik, sehingga mempermudah Mantou Enjoyer dalam melakukan evaluasi kinerja dan finansial bisnis dalam kurun waktu tertentu.

4) Manajemen Operasional

Cloud mengefisiensikan manajemen operasional seperti bekerja kolaboratif antar staff, kemudahan pengaksesan data secara real time, dan kemudahan pemanfaatan analitik untuk pengambilan keputusan bisnis yang tepat.

Desain Arsitektur Cloud



Komponen

1) EC2 Auto Scaling Group:

- Jumlah minimum unit adalah 1, dan jumlah maksimumnya adalah 2.
- Berada di dua Availability Zone (ap-southeast-1a & -1b).
- Terpasang di public subnet kedua AZ untuk mengeliminasi perlunya akses melalui VPN/NAT Gateway
- Menggunakan AMI Amazon Linux 2023.
- Melalui Launch Template, diinstall Apache, MariaDB/MySQL, dan PHP untuk membuat LAMP server.
- Hanya menerima traffic HTTPS (TCP 443) yang datang dari Application Load Balancer

2) RDS:

- Menggunakan engine MySQL
- Salah satu instance berfungsi sebagai database utama; instance lainnya sebagai read replica.
- Akses read-write dialihkan ke RDS utama
- Akses read-only dialihkan ke kedua instansi RDS untuk meringankan beban RDS utama.
- Kedua instance RDS ditempatkan di private subnet masing-masing AZ, sehingga hanya EC2 dalam VPC & security group yang sama yang dapat mengakses RDS.

Komponen

3) Application Load Balancer (ALB):

- ALB dipasang terhadap Auto Scaling Group.
- Membagi lalu lintas secara merata ke Auto Scaling Group.
- ALB hanya menerima lalu lintas HTTPS dari CloudFront dengan menggunakan header khusus untuk memverifikasi asal lalu lintas.
- Secara default mengirim response 403 jika mendapat packet tanpa header yang tepat dari CloudFront.

4) CloudFront:

- Mengcache website
- Origin adalah Application Load Balancer; traffic yang masuk ke CloudFront diarahkan ke ALB

5) Route 53

- DNS service website.
- Record A dan AAAA di Route53 mengarah ke alamat IPv4 CloudFront.
- Lalu lintas ke website melalui <https://mantouenjoyer.live> diarahkan melalui DNS nameserver milik Route53, lalu ke CloudFront.

Komponen

6) CodeCommit:

- Kode website disimpan di repository Git pribadi di CodeCommit.
- Sebagai developer, kami dapat melakukan git push langsung ke repository Git di CodeCommit

7) CodeDeploy:

- CodeDeploy digunakan untuk mendeploy kode website secara otomatis ke Auto Scaling Group.
- Deploy manual melalui SSH tidak diperlukan dengan adanya CodeDeploy.

8) CodePipeline:

- CodePipeline digunakan untuk mengotomatiskan proses commit-push-deploy.
- Setiap commit baru di CodeCommit yang di-push dari repository Git lokal akan memicu CodeDeploy untuk mendeploy website dengan kode dari repository CodeCommit ke Auto Scaling Group.

Dokumentasi Konfigurasi AWS

Your VPCs (1/1) Info

Filter VPCs

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table	Main network ACL	Tenancy	Default VPC	Owner ID
VPC	vpc-093b7f03b7997fcdb	Available	10.0.0.0/16	2406:da18:817:f500::/56	dopt-0a37f6074853af...	rtb-0dde14e494daa8536 ...	acl-014475772ca52bfa8	Default	No	579504919565

vpc-093b7f03b7997fcdb / VPC

[Details](#) [Resource map](#) [New](#) [CIDRs](#) [Flow logs](#) [Tags](#)

Details

VPC ID
vpc-093b7f03b7997fcdb

Tenancy
Default

Default VPC
No

Network Address Usage metrics
Disabled

State
Available

DHCP option set
dopt-0a37f6074853af1bd

IPv4 CIDR
10.0.0.0/16

Route 53 Resolver DNS Firewall rule groups
-

DNS hostnames
Enabled

Main route table
rtb-0dde14e494daa8536 / Main Route Table

IPv6 pool
Amazon Associated

Owner ID
579504919565

DNS resolution
Enabled

Main network ACL
acl-014475772ca52bfa8

IPv6 CIDR (Network border group)
2406:da18:817:f500::/56 (ap-southeast-1) Associated

Resource map Info

VPC [Show details](#)
Your AWS virtual network

Subnets (4)
Subnets within this VPC

ap-southeast-1a

Public Subnet 1

RDS Private Subnet 1

ap-southeast-1b

Public Subnet 2

RDS Private Subnet 2

Route tables (3)
Route network traffic to resources

Public Route Table

RDS-Pvt-rt

Main Route Table

Network connections (2)
Connections to other networks

Internet Gateway

VPC Endpoint

[Alt+S] [Alt+S]

EC2 > Auto Scaling groups > WebAppAutoScaling

WebAppAutoScaling

- Details
- Activity
- Automatic scaling
- Instance management
- Monitoring
- Instance refresh

Group details

Auto Scaling group name	Desired capacity	Status	Amazon Resource Name (ARN)
WebAppAutoScaling	1	-	arn:aws:autoscaling:ap-southeast-1:579504919565:autoScalingGroup:0338cd4f-cdea-442d-a9db-aa9aceb4e21b:autoScalingGroupName/WebAppAutoScaling
Date created	Minimum capacity		
Sun Jun 04 2023 11:46:23 GMT+0700 (Western Indonesia Time)	1		
	Maximum capacity		
	2		

Launch template

Launch template	AMI ID	Instance type	Owner
lt-0a7996896a02f4fde WebAppLauncher	ami-0126086c4e272d5c9	t2.micro	arn:aws:iam::579504919565:root
Version	Security groups	Security group IDs	Create time
Default	-	sg-0429f64195757966f sg-01800429de1673106	Tue Jun 06 2023 22:36:59 GMT+0700 (Western Indonesia Time)
Description	Storage (volumes)	Key pair name	Request Spot Instances
-	-	MantouEnjoyer	No
View details in the launch template console			

Network

Availability Zones	Subnet ID
ap-southeast-1a, ap-southeast-1b	subnet-0e9c247f5291446b7, subnet-07ba1dd2a1f6e1812

Instance type requirements

Your Auto Scaling group adheres to the launch template for purchase option and instance type.

Load balancing

Load balancer target groups	Classic Load Balancers
WebAppGroupTarget	-

VPC Lattice integration options

VPC Lattice target groups	-
---------------------------	---

Health checks

Health check type	Health check grace period
EC2	180

Advanced configurations

Instance scale-in protection	Termination policies	Maximum instance lifetime	Service-linked role
Not protected from scale in	Default	-	arn:aws:iam::579504919565:role/aws-service-role/autoscaling.amazonaws.com/AWSServiceRoleForAutoScaling
Placement group	Suspended processes	Default cooldown	Default instance warmup
-	-	180	Disabled

Tags (0)

Key	Value
-----	-------

New EC2 Experience Tell us what you think [Alt+S]

EC2 > Launch templates > WebAppLauncher

WebAppLauncher (lt-0a7996896a02f4fde)

Actions ▾ Delete template

Launch template details

Launch template ID	Launch template name	Default version	Owner
lt-0a7996896a02f4fde	WebAppLauncher	6	arn:aws:iam::579504919565:root

Details Versions Template tags

Launch template version details

Version	Description	Date created	Created by
6 (Default)	-	2023-06-06T15:36:59.000Z	arn:aws:iam::579504919565:root

Instance details Storage Resource tags Network interfaces Advanced details

Spot purchasing options

IAM Instance profile	Instance auto-recovery	Shutdown behavior	Stop-hibernate behavior
arn:aws:iam::579504919565:instance-profile/CodeDeploy-EC2-Instance-Profile	-	-	-
Termination protection	Stop protection	Hostname type	Resource-based IPv4 DNS
-	-	Resource name	true
Resource-based IPv6 DNS	Detailed CloudWatch monitoring	T2/T3 Unlimited	Placement group
true	-	-	-
Placement Groups	Capacity reservation	EBS optimized instance	Tenancy
-	-	-	-
Key Pairs	Network Interfaces	Tenancy host resource group	Tenancy affinity
-	-	Tenancy host ID	RAM disk ID
Network Interfaces	Target partition	-	-
-	-	-	-
Load Balancing	Kernel ID	Enclave	License configurations
-	-	-	Core count
Auto Scaling	Threads per core	Metadata accessible	Token hop limit
-	-	-	-
Auto Scaling Groups	Metadata transport	Allow tags in metadata	Metadata version
-	-	-	-
User data	#!/usr/bin/bash	# update system	
-	# update system	dnf update -y;	
	# install mysql, php (+ exts), wget, unzip, python, pip, ruby	dnf install -y httpd mariadb105 php php-mysql php-gd php-json php-mbstring wget unzip python pip ruby mod_ssl;	
	# install composer	php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"	
	php composer-setup.php;	php -r "unlink('composer-setup.php');"	
	mv composer.phar /usr/local/bin/composer;		
	# install php-zip extension (through pecl)	dnf install -y php-devel php-pecl libzip libzip-devel;	
	pecl install zip;	echo "extension=zip.so" tee /etc/php.d/20-zip.ini	
	# start apache	systemctl enable httpd;	
	systemctl start httpd --now;		
	# Install Let's Encrypt (certbot)...	dnf install -y augoeas;	
	pip install certbot python-augoeas certbot-apache;		
	# Add VirtualHost at port 80	cat >> /etc/httpd/conf/httpd.conf << EOF	
	<VirtualHost *:80>	</VirtualHost>	
	DocumentRoot "/var/www/html"	EOF	
	ServerName "mantouenjoyer.live"	systemctl restart httpd;	
	ServerAlias "www.mantouenjoyer.live" [END,NE,R=permanent]		
		# Run certbot for the first time	
		certbot --noninteractive --agree-tos -m ygsmr.public@gmail.com --apache --domain mantouenjoyer.live --domain www.mantouenjoyer.live;	
		# Install and run a cronjob to renew SSL certs every hour	
		dnf install -y cronie;	
		(crontab -l true; echo "27 0,12 * * * certbot renew --quiet") crontab -;	
		# Configure /var/www/html to allow override (for Laravel/mod_rewrite)	
		sed -i '/<Directory "/var/www/html"/> s/AllowOverride None/AllowOverride all/' /etc/httpd/conf/httpd.conf;	
		# Setup & start CodeDeploy agent	
		cd /tmp;	
		wget https://aws-codedeploy-ap-southeast-1.s3.ap-southeast-1.amazonaws.com/latest/install;	
		chmod +x ./install;	
		./install auto;	
		cd /;	
		systemctl enable codedeploy-agent;	
		systemctl start codedeploy-agent --now;	
		Base64-encoded user data has been decoded for readability.	

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CloudShell Feedback Language

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WebAppLoadBalancer

C Actions ▾

▼ Details

Load balancer type	Status	VPC	IP address type
Application	Active	vpc-093b7f03b7997fcdb [1]	Dualstack
Scheme	Hosted zone	Availability Zones	Date created
Internet-facing	Z1LMS91P8CMLE5	subnet-0e9c247f5291446b7 [1] ap-southeast-1a (apse1-az1) subnet-07ba1dd2a1f6e1812 [1] ap-southeast-1b (apse1-az2)	June 2, 2023, 11:05 (UTC+07:00)

Load balancer ARN

arn:aws:elasticloadbalancing:ap-southeast-1:1579504919565:loadbalancer/app/WebAppLoadBalancer/6e343fbff258f9b1

DNS name

WebAppLoadBalancer-856852636.ap-southeast-1.elb.amazonaws.com (A or AAAA Record)

Listeners (1)						Listener rules (2) Info			
Protocol:Port		Default action		Rules		ARN	Security policy	Default SSL cert	Tags
■	HTTPS:443	Return fixed response	2 rules	■	ARN	ELBSecurityPolicy-TLS13-1-2-...	mantouenjoyer.live (Certificate...)	0 tags	Priority 1 Tags 0 tags
■	HTTPS:443	• Response code: 403 • Response body • Response content type: text/plain							Priority default Tags 0 tags

Network mapping [Info](#)

Targets in the listed zones and subnets are available for traffic from the load balancer using the IP addresses shown.

[Edit IP address type](#) [Edit subnets](#)

VPC	IP address type
vpc-093b7f03b7997fcdb [1]	Dualstack
IPv4: 10.0.0.0/16	
IPv6: 2406:da18:817:f500::/56	

Mappings

Selecting two or more Availability Zones and corresponding subnets increases the fault tolerance of your applications.

Zone	Subnet	IPv4 address	Private IPv4 address	IPv6 address
ap-southeast-1a (apse1-az1)	subnet-0e9c247f5291446b7 [1]	Assigned by AWS	Assigned from CIDR 10.0.0.0/20	Assigned from CIDR 2406:da18:817:f500::/64
ap-southeast-1b (apse1-az2)	subnet-07ba1dd2a1f6e1812 [1]	Assigned by AWS	Assigned from CIDR 10.0.16.0/20	Assigned from CIDR 2406:da18:817:f501::/64

New EC2 Experience [Tell us what you think](#)

Instance summary for i-0a5c948baa12f37d8 [Info](#)
Updated less than a minute ago

[EC2 Dashboard](#) [EC2 Global View](#) [Events](#) [Limits](#)

Instances

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Images

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Elastic Block Store

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Network & Security

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Load Balancing

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Auto Scaling

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Instance summary for i-0a5c948baa12f37d8 [Info](#)
Updated less than a minute ago

[C](#) [Connect](#) [Instance state ▾](#) [Actions ▾](#)

Instance ID i-0a5c948baa12f37d8	Public IPv4 address 13.215.189.253 open address	Private IPv4 addresses 10.0.2.1
IPv6 address 2406:da18:817:f500:7ee3:3b15:717:aa59	Instance state Running	Public IPv4 DNS ec2-13-215-189-253.ap-southeast-1.compute.amazonaws.com open address
Hostname type Resource name: i-0a5c948baa12f37d8.ap-southeast-1.compute.internal	Private IP DNS name (IPv4 only) ip-10-0-2-1.ap-southeast-1.compute.internal	Private resource DNS name i-0a5c948baa12f37d8.ap-southeast-1.compute.internal
Answer private resource DNS name IPv4 and IPv6 (A and AAAA)	Instance type t2.micro	Elastic IP addresses —
Auto-assigned IP address 13.215.189.253 [Public IP]	VPC ID vpc-093b7f03b7997fcdb (VPC)	AWS Compute Optimizer finding Opt-In to AWS Compute Optimizer for recommendations. Learn more
IAM Role CodeDeploy-EC2-Instance-Profile	Subnet ID subnet-0e9c247f5291446b7 (Public Subnet 1)	Auto Scaling Group name WebAppAutoScaling
IMDSv2 Required		

[Details](#) [Security](#) [Networking](#) [Storage](#) [Status checks](#) [Monitoring](#) [Tags](#)

Security details

IAM Role CodeDeploy-EC2-Instance-Profile	Owner ID 579504919565	Launch time Tue Jun 06 2023 22:58:59 GMT+0700 (Western Indonesia Time)
Security groups sg-0429f64195757966f (EC2 Internet Access) sg-01800429de1673106 (ec2-rds-1)		

Inbound rules

Name	Security group rule ID	Port range	Protocol	Source	Security groups	Description	EC2 Intern...	ec2-rds-1
—	sgr-0014e1c06b50c53fb	22	TCP	sg-0429f64195757966f	EC2 Internet Access	Allow instance intraconnectivity via SSH	✓	—
—	sgr-0cb17cbb0e24bd450	80	TCP	sg-0d7f959a98ff0a746	EC2 Internet Access	—	✓	—
—	sgr-00a031f2d0a850d25	22	TCP	0.0.0.0/0	EC2 Internet Access	Allow SSH connection from anywhere	✓	—
—	sgr-0d50fc2e6972d40fc	443	TCP	sg-0d7f959a98ff0a746	EC2 Internet Access	Allow HTTPS connection from the lo...	✓	—

Outbound rules

Name	Security group rule ID	Port range	Protocol	Destination	Security groups	Description	EC2 Intern...	ec2-rds-1
—	sgr-0cffb6e8a793411d4	All	All	::/0	EC2 Internet Access	—	✓	—
—	sgr-061fb802d3ce9dc1b	All	All	0.0.0.0/0	EC2 Internet Access	—	✓	—
—	sgr-0a3e683fcfd8ce0d0	3306	TCP	sg-0e1f5e4014f4f8f23	ec2-rds-1	Allow connections from any instances ...	—	✓

Amazon RDS

RDS > Databases > me-db1

me-db1

Multi-AZ DB clusters now available

For Amazon RDS for MySQL and PostgreSQL workloads, you can now deploy Multi-AZ DB clusters. A Multi-AZ DB cluster includes a writer DB instance and two readable standby DB instances. When compared to Multi-AZ DB instance deployments, Multi-AZ DB cluster deployments improve transaction commit latencies (up to twice as fast), provide faster failover (typically under 35 seconds), and provide read scalability with two readable standby DB instances. Learn more [here](#).

Related

DB identifier	Role	Engine	Region & AZ	Size	Status	Actions	CPU	Current activity	Maintenance	VPC	
me-db1	Primary	MySQL Community	ap-southeast-1a	db.t3.micro	Available	3 Actions	3.52%	1 Connections	none	vpc-093b7f03b7997fcdb	No
me-db2	Replica	MySQL Community	ap-southeast-1b	db.t3.micro	Available	3 Actions	3.53%	0 Connections	none	vpc-093b7f03b7997fcdb	No

Connectivity & security

Endpoint & port

- Endpoint: me-db1.cr0dc87u3dr.ap-southeast-1.rds.amazonaws.com
- Port: 3306

Networking

- Availability Zone: ap-southeast-1a
- VPC: VPC (vpc-093b7f03b7997fcdb)
- Subnet group: rds-ec2-db-subnet-group-3
- Subnets: subnet-0f0e9fb568151c69, subnet-0900eda79fsb3e1b9, subnet-020c422360b542736
- Network type: IPv4

Security

- VPC security groups: rds-ec2-1 (sg-0e1f5e4014f4ffbf23) (Active)
- Publicly accessible: No
- Certificate authority: rds-ca-2019
- Certificate authority date: August 23, 2024, 00:08 (UTC+07:00)
- DB instance certificate expiration date: August 23, 2024, 00:08 (UTC+07:00)

Security group rules (1)

Filter by Security group rules		
Security group: rds-ec2-1 (sg-0e1f5e4014f4ffbf23)	Type: EC2 Security Group - Inbound	Rule: sg-01800429de1673106

Replication (2)

Filter by Replication					
DB identifier: me-db1	Role: Primary	Region & AZ: ap-southeast-1a	Replication source: -	Replication state: -	Lag: -
DB identifier: me-db2	Role: Replica	Region & AZ: ap-southeast-1b	Replication source: me-db1	Replication state: Replicating	Lag: -

Proxies (0)

Filter by proxies		
Proxy identifier: -	Status: -	Engine family: -

Connected compute resources (1)

Connections to compute resources that were created automatically by RDS are shown here. Connections to compute resources that were created manually aren't shown.

Filter by compute resources				
Resource identifier: i-0a5c948baa12f37d8	Resource type: EC2 Instance	Availability zone: ap-southeast-1a	RDS security group: rds-ec2-1	Compute resource security group: ec2-rds-1

Modify DB instance: me-db1

Settings

DB engine version: 8.0.32

DB instance identifier: me-db1

Auto generate a password: Amazon RDS can generate a password for you, or you can specify your own password.

New master password: [Info](#)

Confirm master password: [Info](#)

Instance configuration

DB instance class: db.t3.micro (2 vCPUs, 1 GiB RAM, Network: 2,085 Mbps)

Include previous generation classes:

Storage

Storage type: General Purpose SSD (gp2)

Allocated storage: 8 GiB

Backup window: Choose a window

Backup retention period: 1 day

Storage autoscaling: Enable storage autoscaling

Availability & durability

Multi-AZ deployment: Create a standby instance (recommended for production usage)

Connectivity

Network type: IPv4

DB subnet group: rds-ec2-db-subnet-group-3

Security group: Choose security groups: rds-ec2-1

Maintenance

Auto minor version upgrade: Enable auto minor version upgrade

DB instance maintenance window: Sunday 19:45 UTC, Duration: 0.5 hours

Deletion protection: Enable deletion protection

Additional configuration

Database authentication

Database authentication options:

- Password authentication**: Authenticates using database passwords.
- Password and IAM database authentication**: Authenticates using the database password and user credentials through AWS IAM users and roles.
- Password and Kerberos authentication**: Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

Monitoring

Monitoring: Enable Enhanced monitoring

Database options

DB parameter group: default.mysql8.0

Option group: default:mysql-8-0

Backup

Enable automated backups: Creates a point-in-time snapshot of your database

Backup retention period: 1 day

Log exports

Select the log types to publish to Amazon CloudWatch Logs:

- Audit log
- Error log
- General log
- Slow query log

IAM role

The following service-linked role is used for publishing logs to CloudWatch Logs:

Maintenance

Auto minor version upgrade: Enable auto minor version upgrade

DB instance maintenance window: Sunday 19:45 UTC, Duration: 0.5 hours

Deletion protection: Enable deletion protection

AWS Services Search [Alt+S] Singapore ygsmr

Developer Tools > CodeCommit > Repositories > MantouEnjoyer

MantouEnjoyer

Notify main Create pull request Clone URL

MantouEnjoyer Info

Add file

Name
app
assets
bootstrap
config
extensions
scripts
storage
tests
themes
vendor
.env
.gitignore
.htaccess
appspec.yml
artisan
composer.json
composer.lock
index.php
phpunit.dusk.xml
phpunit.xml
robots.txt
server.php

Go to resource Feedback

[Alt+S]

Developer Tools > CodeDeploy > Applications > MantouEnjoyer > MantouEnjoyerMainDeploymentGroup

MantouEnjoyerMainDeploymentGroup

[Edit](#) [Delete](#) [Create deployment](#)

Deployment group details

Deployment group name	Application name	Compute platform
MantouEnjoyerMainDeploymentGroup	MantouEnjoyer	EC2/On-premises
Deployment type	Service role ARN	Deployment configuration
In-place	arn:aws:iam::579504919565:role/CodeDeployRole	CodeDeployDefault.OneAtATime
Rollback enabled	Agent update scheduler	
False	Learn to schedule update in AWS Systems Manager	

Environment configuration: Amazon EC2 Auto Scaling groups

Name
WebAppAutoScaling

Triggers

Name	Events	Type
No triggers have been created for this deployment group.		

Alarms

Name	
No Amazon CloudWatch alarms have been created for this deployment group	

Ignore alarm configuration

Enabled	Continue deployment even if alarm status is unavailable
Enabled	Disabled

Deployment group tags

Info

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to help manage and secure your resources or to help track costs.

[Edit](#)

Key	Value
No results	
There are no results to display.	
Add tag	

Deployment group deployment history

[View details](#) [Actions](#) [Copy deployment](#) [Retry deployment](#)

Deployment ID	Status	Revision location	Initiating event	Start time	End time
d-SLOGPPBAO	Succeeded	s3://codepipeline-ap-southeast-1-10584125...	User action	Jun 7, 2023 12:23 AM (UTC+7:00)	Jun 7, 2023 12:26 AM (UTC+7:00)
d-S75LK1CAO	Succeeded	s3://codepipeline-ap-southeast-1-10584125...	User action	Jun 7, 2023 12:06 AM (UTC+7:00)	Jun 7, 2023 12:09 AM (UTC+7:00)
d-TG4FMN9AO	Succeeded	s3://codepipeline-ap-southeast-1-10584125...	Auto Scaling group action	Jun 6, 2023 10:59 PM (UTC+7:00)	Jun 6, 2023 11:02 PM (UTC+7:00)
d-2UV2F520C	Failed	s3://codepipeline-ap-southeast-1-10584125...	Auto Scaling group action	Jun 6, 2023 9:57 PM (UTC+7:00)	Jun 6, 2023 10:57 PM (UTC+7:00)
d-DM1UBSS8O	Succeeded	s3://codepipeline-ap-southeast-1-10584125...	User action	Jun 4, 2023 4:01 PM (UTC+7:00)	Jun 4, 2023 4:03 PM (UTC+7:00)
d-69VP8TKYB	Succeeded	s3://codepipeline-ap-southeast-1-10584125...	User action	Jun 4, 2023 3:45 PM (UTC+7:00)	Jun 4, 2023 3:46 PM (UTC+7:00)
d-UW7PICQ8O	Succeeded	s3://codepipeline-ap-southeast-1-10584125...	User action	Jun 4, 2023 1:24 PM (UTC+7:00)	Jun 4, 2023 1:26 PM (UTC+7:00)
d-RX79T6Q8O	Failed	s3://codepipeline-ap-southeast-1-10584125...	User action	Jun 4, 2023 1:05 PM (UTC+7:00)	Jun 4, 2023 1:12 PM (UTC+7:00)
d-EPCBZFO8O	Succeeded	s3://codepipeline-ap-southeast-1-10584125...	User action	Jun 4, 2023 12:14 PM (UTC+7:00)	Jun 4, 2023 12:53 PM (UTC+7:00)
d-FNNOYFH8Y	Failed	s3://codepipeline-ap-southeast-1-10584125...	User action	Jun 4, 2023 11:57 AM (UTC+7:00)	Jun 4, 2023 12:08 PM (UTC+7:00)

Developer Tools > CodeDeploy > Applications > MantouEnjoyer > MantouEnjoyerMainDeploymentGroup > MantouEnjoyerMainDeploymentGroup

Edit deployment group

Application

Application
MantouEnjoyer
Compute type
EC2/On-premises

Deployment group name

Enter a deployment group name

100 character limit

Service role

Enter a service role

Enter a service role with CodeDeploy permissions that grants AWS CodeDeploy access to your target instances.

Deployment type

Choose how to deploy your application

- In-place

Updates the instances in the deployment group with the latest application revisions. During a deployment, each instance will be briefly taken offline for its update
- Blue/green

Replaces the instances in the deployment group with new instances and deploys the latest application revision to them. After instances in the replacement environment are registered with a load balancer, instances from the original environment are deregistered and can be terminated.

Environment configuration

Select any combination of Amazon EC2 Auto Scaling groups, Amazon EC2 Instances and on-premises instances to add to this deployment

Amazon EC2 Auto Scaling groups

1 unique matched instance. [Click here for details](#)

You can select up to 10 Amazon EC2 Auto Scaling groups to deploy your application revision to.

WebAppAutoScaling

Amazon EC2 Instances

On-premises Instances

Matching instances

1 unique matched instance. [Click here for details](#)

Deployment settings

Deployment configuration

Choose from a list of default and customised deployment configurations. A deployment configuration is a set of rules that determines how fast an application is deployed and the success or failure conditions for a deployment.

CodeDeployDefault.OneAtATime

[Create deployment configuration](#)

Load balancer

Select a load balancer to manage incoming traffic during the deployment process. The load balancer blocks traffic from each instance while it's being deployed to and allows traffic to it again after the deployment succeeds.

Enable load balancing

Application Load Balancer or Network Load Balancer

Classic Load Balancer

Choose a target group

WebAppGroupTarget

AWS Services Search [Alt+S] Singapore ygsmr

Developer Tools > CodePipeline > Pipelines > MantouEnjoyerPipeline

MantouEnjoyerPipeline

Source • CodeCommit Artifacts • CodeArtifact Build • CodeBuild Deploy • CodeDeploy Pipeline • CodePipeline

Getting started Pipelines Pipeline History Settings

Settings Go to resource Feedback

Source Succeeded Pipeline execution ID: ed33a325-406c-49b4-88a3-558bbca20dfb

Source AWS CodeCommit Succeeded - 6 days ago ba5c7bc5

ba5c7bc5 Source: Updated appspec.yml to run afterinstall.sh as root

Disable transition

Deploy Succeeded Pipeline execution ID: ed33a325-406c-49b4-88a3-558bbca20dfb

Deploy AWS CodeDeploy Succeeded - 6 days ago Details

ba5c7bc5 Source: Updated appspec.yml to run afterinstall.sh as root

Notify Edit Stop execution Clone pipeline Release change

```
graph TD; Source[Source: AWS CodeCommit] --> Deploy[Deploy: AWS CodeDeploy]
```

Edit settings

Web Application Firewall (WAF)

- Enable security protections
Keep your application secure from the most common web threats and security vulnerabilities using AWS WAF. Blocked requests are stopped before they reach your web servers.
- Do not enable security protections
Select this option if your application does not need security protections from AWS WAF.

Settings

Price class | Info

- Choose the price class associated with the maximum price that you want to pay.
- Use all edge locations (best performance)
 - Use only North America and Europe
 - Use North America, Europe, Asia, Middle East, and Africa

Alternate domain name (CNAME) - optional

Add the custom domain names that you use in URLs for the files served by this distribution.

[Remove](#)
[Add item](#)

To add a list of alternative domain names, use the **bulk editor**.

Custom SSL certificate - optional

Associate a certificate from AWS Certificate Manager. The certificate must be in the US East (N. Virginia) Region (us-east-1).

[C](#)

mantouenjoyer.live [Request certificate](#)

Legacy clients support - \$600/month prorated charge applies. Most customers do not need this.
CloudFront allocates dedicated IP addresses at each CloudFront edge location to serve your content over HTTPS.

Enabled

Security policy

The security policy determines the SSL or TLS protocol and the specific ciphers that CloudFront uses for HTTPS connections with viewers (clients).

- TLSv1.2_2021 (recommended)
- TLSv1.2_2019
- TLSv1.2_2018
- TLSv1.1_2016
- TLSv1_2016
- TLSv1

Supported HTTP versions

Add support for additional HTTP versions. HTTP/1.0 and HTTP/1.1 are supported by default.

- HTTP/2
- HTTP/3

Default root object - optional

The object (file name) to return when a viewer requests the root URL (/) instead of a specific object.

Standard logging

Get logs of viewer requests delivered to an Amazon S3 bucket.

- Off
- On

IPv6

- Off
- On

Description - optional

▶ Additional settings

Edit origin

Settings

Origin domain

Choose an AWS origin, or enter your origin's domain name.

[X](#)

Protocol | Info

- HTTP only
- HTTPS only
- Match viewer

HTTP port

Enter your origin's HTTP port. The default is port 80.

HTTPS port

Enter your origin's HTTPS port. The default is port 443.

Minimum origin SSL protocol | Info

The minimum SSL protocol that CloudFront uses with the origin.

- TLSv1.2
- TLSv1.1
- TLSv1
- SSLv3

Origin path - optional | Info

Enter a URL path to append to the origin domain name for origin requests.

Name

Enter a name for this origin.

Add custom header - optional

CloudFront includes this header in all requests that it sends to your origin.

Header name

Value

[Remove](#)

Add header

Enable Origin Shield | Info

Origin Shield is an additional caching layer that can help reduce the load on your origin and help protect its availability.

- No
- Yes

▶ Additional settings

Edit behavior

Settings

Path pattern | Info

Default (*)

Origin and origin groups

WebAppLoadBalancer

Compress objects automatically | Info

- No
- Yes

Viewer

Viewer protocol policy

- HTTP and HTTPS
- Redirect HTTP to HTTPS
- HTTPS only

Allowed HTTP methods

- GET, HEAD
- GET, HEAD, OPTIONS
- GET, HEAD, OPTIONS, PUT, POST, PATCH, DELETE

Cache HTTP methods

GET and HEAD methods are cached by default.

- OPTIONS

Restrict viewer access

If you restrict viewer access, viewers must use CloudFront signed URLs or signed cookies to access your content.

- No
- Yes

Cache key and origin requests

We recommend using a cache policy and origin request policy to control the cache key and origin requests.

- Cache policy and origin request policy (recommended)

- Legacy cache settings

Cache policy

Choose an existing cache policy or create a new one.

CachingOptimized

Policy with caching enabled. Supports Gzip and Brotli compression.

[Create cache policy](#) [View policy](#)

Origin request policy - optional

Choose an existing origin request policy or create a new one.

AllViewer

Policy to forward all parameters in viewer requests

[Create origin request policy](#) [View policy](#)

Response headers policy - optional

Choose an existing response headers policy or create a new one.

Select response headers

[Create response headers policy](#)

▶ Additional settings

AWS Services Search [Alt+S] Global ▾ ygsmr

Route 53 X Route 53 > Hosted zones > mantouenjoyer.live

Dashboard Hosted zones Health checks IP-based routing CIDR collections Traffic flow Traffic policies Policy records Domains Registered domains Pending requests Resolver VPCs Inbound endpoints Outbound endpoints Rules Query logging DNS Firewall Rule groups Domain lists Application Recovery Controller Switch to old console

Public mantouenjoyer.live Info Delete zone Test record View query logging configuration Edit hosted zone

Hosted zone details Records (5) DNSSEC signing Hosted zone tags (0)

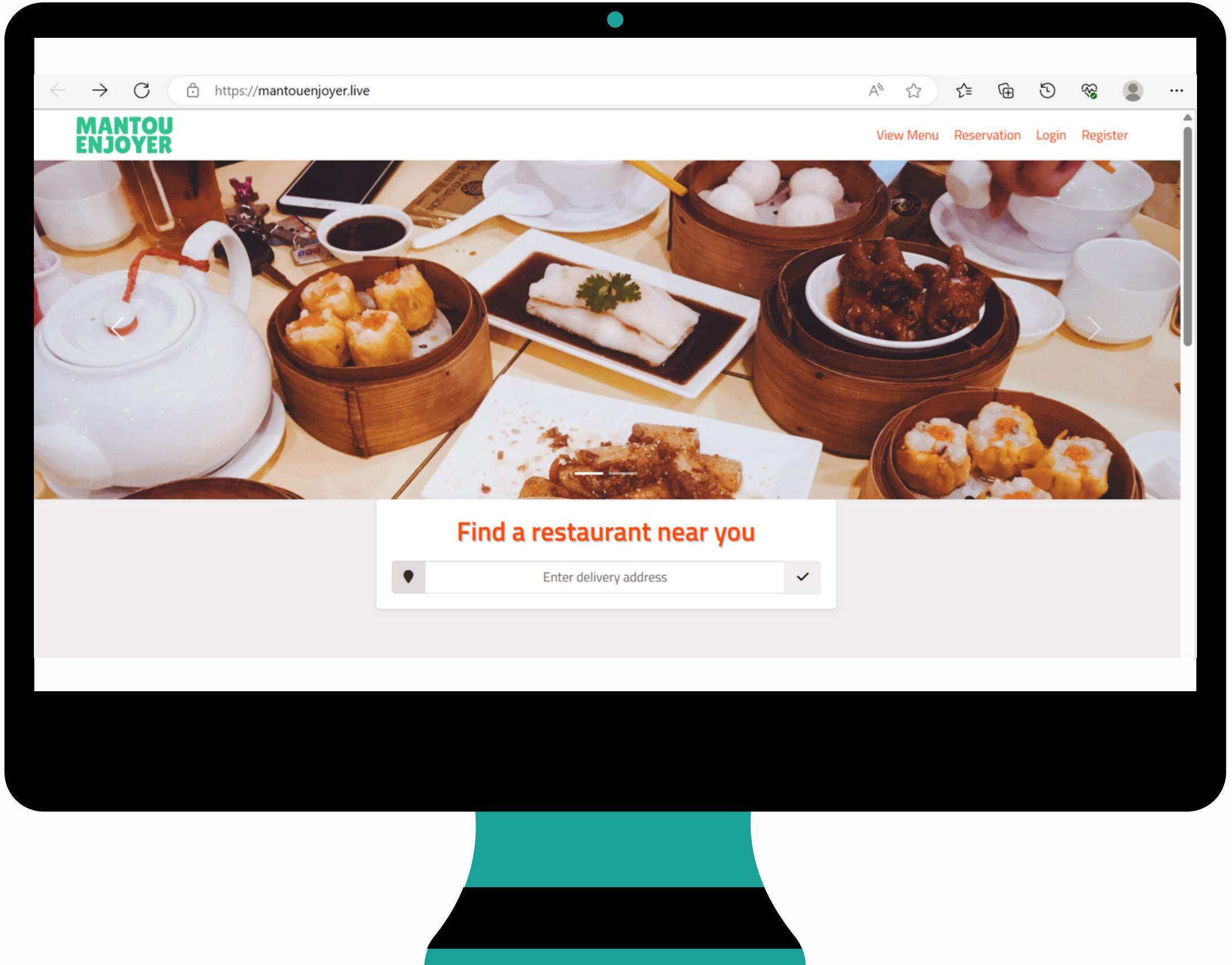
Records (5) Info Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

Filter records by property or value Type Routing pol... Alias

C Delete record Import zone file Create record

	Record name	Type	Routin...	Differen...	Alias	Value/Route traffic to	TTL (se...	Health ...	Evaluat...	Record ID
	mantouenjoyer.live	A	Simple	-	Yes	d2ahpx57trovzp.cloudfront.net.	-	-	No	-
	mantouenjoyer.live	AAAA	Simple	-	Yes	d2ahpx57trovzp.cloudfront.net.	-	-	No	-
	mantouenjoyer.live	NS	Simple	-	No	ns-727.awsdns-26.net. ns-1695.awsdns-19.co.uk. ns-450.awsdns-56.com. ns-1073.awsdns-06.org.	172800	-	-	-
	mantouenjoyer.live	SOA	Simple	-	No	ns-727.awsdns-26.net. awsdns...	900	-	-	-
	_1b148f73ab7e332...	CNAME	Simple	-	No	_2c8606535873ad7bf90a4fd4...	300	-	-	-

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Link Website:

<https://mantouenjoyer.live/>

Public Repo:

<https://github.com/bravadine/MantouEnjoyer>

YouTube Video:

<https://www.youtube.com/watch?v=mvrPFU27Kno>



Thank You!

