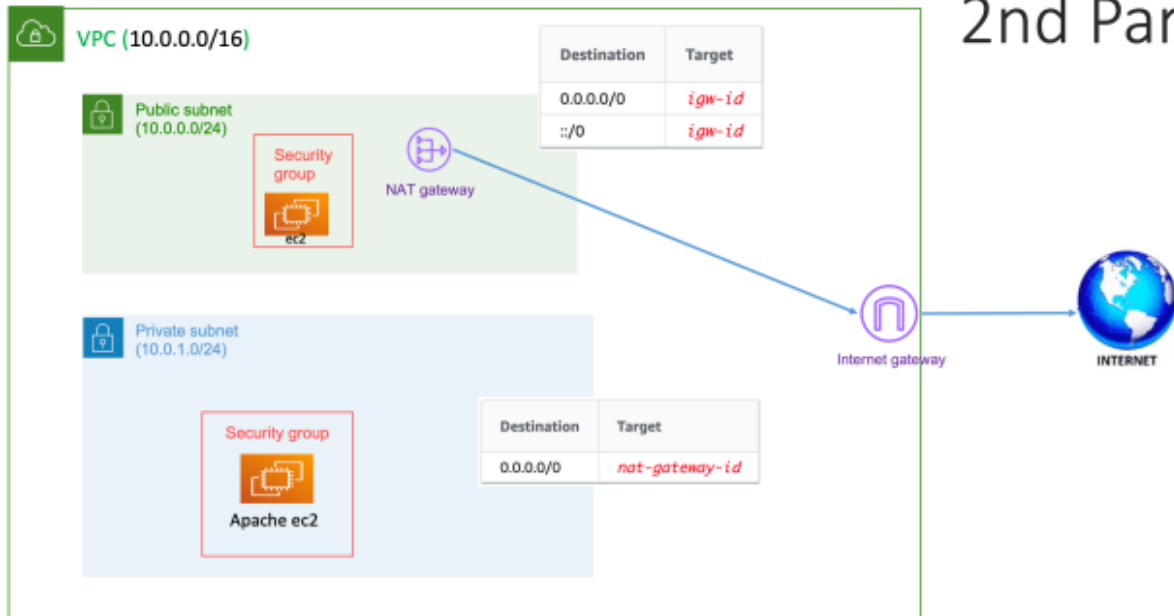


AWS Project 3

2nd Par



Required:

Screenshot from the instance page demonstrate that the instance is private and a screenshot from the logs of the instance demonstrate the apache2 is installed

VPC

[Alt+S] N. Virginia Mohammed Saady

VPC > Your VPCs > vpc-0b8012b97003a6414

vpc-0b8012b97003a6414 / VPC-Lab-2

Details Info

VPC ID vpc-0b8012b97003a6414	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-03e45d294ac777dfe	Main route table rtb-0728a372bd45f1e56	Main network ACL acl-063d8178e1e4bd0b5
Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -	IPv6 CIDR (Network border group) -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 991644510208	

Resource map New CIDRs Flow logs Tags

Resource map Info

Subnet 1

	Subnet	Subnet ID	Status	VPC	IP Range	Availability Zone	Subnet Size
<input checked="" type="checkbox"/>	Subnet1-Lab2	subnet-041a2c0dee6905d3a	Available	vpc-0b8012b97003a6414 VP...	10.0.0.0/24	-	249
<input type="checkbox"/>	-	subnet-0c9f2b3dc48c2086e	Available	vpc-0780d3d0399ddd294	172.31.48.0/20	-	4091
<input type="checkbox"/>	Subnet2-Lab2	subnet-0248410795df0c088	Available	vpc-0b8012b97003a6414 VP...	10.0.1.0/24	-	250
<input type="checkbox"/>	-	subnet-0757e663c1e69c516	Available	vpc-0780d3d0399ddd294	172.31.80.0/20	-	4091

You can now check network connectivity with Reachability Analyzer [Run Reachability Analyzer](#)

Route table: [rtb-027d655b2a6ceeced / Sprint1-Lab2-RT](#) [Edit route table association](#)

Routes (3)

Filter routes

Destination	Target
10.0.0.0/16	local
0.0.0.0/0	igw-008ae8497fb96c6e7
...	igw-008ae8497fb96c6e7

[amazon.com/vpc/home?region=us-east-1#](#)

Subnet 2

	Subnet	Subnet ID	Status	VPC	IP Range	Availability Zone	Subnet Size
<input type="checkbox"/>	Subnet1-Lab2	subnet-041a2c0dee6905d3a	Available	vpc-0b8012b97003a6414 VP...	10.0.0.0/24	-	249
<input type="checkbox"/>	-	subnet-0c9f2b3dc48c2086e	Available	vpc-0780d3d0399ddd294	172.31.48.0/20	-	4091
<input checked="" type="checkbox"/>	Subnet2-Lab2	subnet-0248410795df0c088	Available	vpc-0b8012b97003a6414 VP...	10.0.1.0/24	-	250
<input type="checkbox"/>	-	subnet-0757e663c1e69c516	Available	vpc-0780d3d0399ddd294	172.31.80.0/20	-	4091

You can now check network connectivity with Reachability Analyzer [Run Reachability Analyzer](#)

Route table: [rtb-025297d776dc22e70 / NAT-RouteTable](#) [Edit route table association](#)

Routes (2)

Filter routes

Destination	Target
10.0.0.0/16	local
0.0.0.0/0	nat-07b826bdbe7aa5521

[amazon.com/vpc/home?region=us-east-1#routeTables...](#)

Internet Gateway

VPC > Internet gateways > igw-008ae8497fb96c6e7

igw-008ae8497fb96c6e7 / Sprint1_IGW [Actions](#)

Details [Info](#)

Internet gateway ID	State	VPC ID	Owner
igw-008ae8497fb96c6e7	Attached	vpc-0b8012b97003a6414 VPC-Lab-2	991644510208

Tags [Manage tags](#)

Search tags

Key	Value
Name	Sprint1_IGW

Nat Gateway

VPC > NAT gateways > nat-07b826dbde7aa5521

nat-07b826dbde7aa5521 / NGW-Lab2

Actions

Details

Info

NAT gateway ID

nat-07b826dbde7aa5521

NAT gateway ARN

arn:aws:ec2:us-east-1:991644510208:natgateway/nat-07b826dbde7aa5521

VPC

vpc-0b8012b97003a6414 / VPC-Lab-2

Connectivity type

Public

Primary public IPv4 address

34.193.236.148

Subnet

subnet-041a2c0dee6905d3a / Subnet1-Lab2

State

Available

Primary private IPv4 address

10.0.0.72

Created

Monday, June 5, 2023 at 24:10:26 GMT+3

State message

Info

-

Primary network interface ID

eni-0e6585ed35548eeb9

Deleted

-

Secondary IPv4 addresses

Monitoring

Tags

Route Tables

Route tables (1/4)

Info

Actions

Create route table

Find resources by attribute or tag

	Name	Route table ID	Explicit subnet associati...	Edge associations	Main	VPC	Owner ID
<input type="checkbox"/>	-	rtb-00059f15c8fd367af	-	-	Yes	vpc-0780d3d0399ddd294	991644510208
<input checked="" type="checkbox"/>	Sprint1-Lab2-RT	rtb-027d655b2a6ceeced	subnet-041a2c0dee6905...	-	No	vpc-0b8012b97003a6414 VPC...	991644510208
<input type="checkbox"/>	-	rtb-0728a372bd45f1e56	-	-	Yes	vpc-0b8012b97003a6414 VPC...	991644510208
<input type="checkbox"/>	NAT-RouteTable	rtb-025297d776dc22e70	subnet-0248410795df0c...	-	No	vpc-0b8012b97003a6414 VPC...	991644510208

rtb-027d655b2a6ceeced / Sprint1-Lab2-RT

Details

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (3)

Edit routes

Filter routes

Both

Destination	Target	Status	Propagated
::/0	lgw-008ae8497fb96c6e7	Active	No
0.0.0.0/0	lgw-008ae8497fb96c6e7	Active	No
10.0.0.0/16	local	Active	No

	Name	Route table ID	Explicit subnet associati...	Edge associations	Main	VPC	Owner ID
<input type="checkbox"/>	-	rtb-00059f15c8fd367af	-	-	Yes	vpc-0780d3d0399ddd294	991644510208
<input type="checkbox"/>	Sprint1-Lab2-RT	rtb-027d655b2a6ceeced	subnet-041a2c0dee6905...	-	No	vpc-0b8012b97003a6414 VPC...	991644510208
<input type="checkbox"/>	-	rtb-0728a372bd45f1e56	-	-	Yes	vpc-0b8012b97003a6414 VPC...	991644510208
<input checked="" type="checkbox"/>	NAT-RouteTable	rtb-025297d776dc22e70	subnet-0248410795df0c...	-	No	vpc-0b8012b97003a6414 VPC...	991644510208

rtb-025297d776dc22e70 / NAT-RouteTable

DetailsRoutesSubnet associationsEdge associationsRoute propagationTags

Routes (2)

Filter routes

Both

Destination	Target	Status	Propagated
0.0.0.0/0	nat-07b826bdb7aa5521	Active	No
10.0.0.0/16	local	Active	No

EC2Instancesi-Offb1a3e0b982f8a1

Instance summary for i-Offb1a3e0b982f8a1 (Public Lab2) Info

Updated less than a minute ago

Connect

Instance state

Actions

Instance ID

i-Offb1a3e0b982f8a1 (Public Lab2)

IPv6 address

-

Hostname type

IP name: ip-10-0-0-243.ec2.internal

Answer private resource DNS name

-

Auto-assigned IP address

54.81.1.148 [Public IP]

IAM Role

-

IMDSv2

Optional

Public IPv4 address

54.81.1.148 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-10-0-0-243.ec2.internal

Instance type

t2.micro

VPC ID

vpc-0b8012b97003a6414 (VPC-Lab-2)

Subnet ID

subnet-041a2c0dee6905d3a (Subnet1-Lab2)

Private IPv4 addresses

10.0.0.243

Public IPv4 DNS

-

Elastic IP addresses

-

AWS Compute Optimizer finding

Opt-In to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name

-

EC2 > Instances > i-0ed4d6dc4851254d4

Instance summary for i-0ed4d6dc4851254d4 (Private Ec2) info

Updated less than a minute ago

Instance ID i-0ed4d6dc4851254d4 (Private Ec2)	Public IPv4 address -	Private IPv4 addresses 10.0.1.29
IPv6 address -	Instance state Running	Public IPv4 DNS -
Hostname type IP name: ip-10-0-1-29.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-1-29.ec2.internal	Elastic IP addresses -
Answer private resource DNS name -	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address -	VPC ID vpc-0b8012b97003a6414 (VPC-Lab-2)	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-0248410795df0c088 (Subnet2-Lab2)	
IMDSv2 Optional		

Details | Security | Networking | Storage | Status checks | Monitoring | Tags


▼ **Instance details** info

Platform Ubuntu (Inferred)	AMI ID ami-053b0d53c279acc90	Monitoring disabled
Platform details Linux/UNIX	AMI name ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20250516	Termination protection Disabled

Apache on public machine

Not secure | 54.81.1.148

ابحي يست منشا... Classes* إدارة حساب رق... مشاهدة وتحميل... YouTube Dow... CoursesBb Ahmed Walid Benaa - Fourth... (1) Civil Societ... Revit Home - Udacity 2019



Apache2 Default Page

Ubuntu

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
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf

```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host

Apache on Private EC2

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

New Tab ... ايجي بست مشا... Classes* ... إدارة حساب ر... مشاهدة وتحميل... YouTube Dow... CoursesBb Ahmed Walid Bena - fourth... (1) Civil Societ... Revit Home - Udacit

Services Search [Alt+S]

Select

Metadata transport
Select

Metadata version [Info](#)
Select

Metadata response hop limit [Info](#)
Select

Allow tags in metadata [Info](#)
Select

User data - optional [Info](#)
Enter user data in the field.

#!bin/bash
apt update
apt install -y apache2
systemctl start apache2

☐ User data has already been base64 encoded

▼ Summary

Number of instances [Info](#)
1

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...[read more](#)
ami-053b0d53c279acc90

Virtual server type (instance type)
t2.micro

Firewall (security group)
launch-wizard-2

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

×

Cancel

Launch instance

[Review commands](#)

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#GetSystemLog:instanceId=i-07432b76a330a63a9

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Services Search [Alt++]

New EC2 Experience Tell us what you think

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EC2 Global View
Events
Limits

Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations

Images
AMIs
AMI Catalog

Elastic Block Store
Volumes

EC2 > Instances > i-07432b76a330a63a9 > Get system log

Get system log [info](#)

When you experience issues with your EC2 instance, reviewing system logs can help you pinpoint the cause.

System log

Review system log for instance i-07432b76a330a63a9 as of Mon Jun 05 2023 03:21:14 GMT+0300 (Eastern European Summer Time)

[Copy log](#) [Download](#)

```
[ 64.91230] cloud-init[1188]: Unpacking libaprutil1-bin-amd64 (1.0.1-0ubuntu2.2.0.1) ...
[ 64.471232] cloud-init[1188]: Selecting previously unselected package liblua5.3-0:amd64.
[ 64.483110] cloud-init[1188]: Preparing to unpack .../04-liblua5.3-0_5.3.0-1build1_amd64.deb ...
[ 64.496843] cloud-init[1188]: Unpacking liblua5.3-0:amd64 (5.3.6-1build1) ...
[ 64.564928] cloud-init[1188]: Selecting previously unselected package apache2-bin.
[ 64.575326] cloud-init[1188]: Preparing to unpack .../05-apache2-bin_2.4.52-1ubuntu4.5_amd64.deb ...
[ 64.588688] cloud-init[1188]: Unpacking apache2-bin (2.4.52-1ubuntu4.5) ...
[ 64.764473] cloud-init[1188]: Selecting previously unselected package apache2-data.
[ 64.777122] cloud-init[1188]: Preparing to unpack .../06-apache2-data_2.4.52-1ubuntu4.5_all.deb ...
[ 64.865983] cloud-init[1188]: Unpacking apache2-data (2.4.52-1ubuntu4.5) ...
[ 64.943545] cloud-init[1188]: Selecting previously unselected package apache2-utils.
[ 64.956290] cloud-init[1188]: Preparing to unpack .../07-apache2-utils_2.4.52-1ubuntu4.5_amd64.deb ...
[ 64.976605] cloud-init[1188]: Unpacking apache2-utils (2.4.52-1ubuntu4.5) ...
[ 65.208827] cloud-init[1188]: Selecting previously unselected package mailcap.
[ 65.220389] cloud-init[1188]: Preparing to unpack .../08-mailcap_3.79+mmu1ubuntu1_all.deb ...
[ 65.233196] cloud-init[1188]: Unpacking mailcap (3.79+mmu1ubuntu1) ...
[ 65.283513] cloud-init[1188]: Selecting previously unselected package mime-support.
[ 65.297333] cloud-init[1188]: Preparing to unpack .../09-mime-support_3.60_all.deb ...
[ 65.415842] cloud-init[1188]: Unpacking mime-support (3.66) ...
[ 65.476171] cloud-init[1188]: Selecting previously unselected package apache2.
```

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#GetSystemLog:instanceId=i-07432b76a330a63a9

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Services Search [Alt++]

New EC2 Experience Tell us what you think

EC2 Dashboard
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Savings Plans
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Dedicated Hosts
Scheduled Instances
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AMI Catalog

Elastic Block Store
Volumes

EC2 > Instances > i-07432b76a330a63a9 > Get system log

Get system log [info](#)

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System log

Review system log for instance i-07432b76a330a63a9 as of Mon Jun 05 2023 03:21:14 GMT+0300 (Eastern European Summer Time)

[Copy log](#) [Download](#)

```
[ 61.434774] cloud-init[1188]: Reading package lists...
[ 61.557320] cloud-init[1188]: Building dependency tree...
[ 61.566101] cloud-init[1188]: Reading state information...
[ 61.586171] cloud-init[1188]: 34 packages can be upgraded. Run 'apt list --upgradable' to see them.
[ 61.691661] cloud-init[1188]: WARNING: apt does not have a stable CLI interface. Use with caution in scripts.
[ 61.695905] cloud-init[1188]: Reading package lists...
[ 61.855999] cloud-init[1188]: Building dependency tree...
[ 61.866062] cloud-init[1188]: Reading state information...
[ 62.018107] cloud-init[1188]: The following additional packages will be installed:
[ 62.027111] cloud-init[1188]: apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1
[ 62.043690] cloud-init[1188]: libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
[ 62.054955] cloud-init[1188]: ssl-cert
[ 62.066584] cloud-init[1188]: Suggested packages:
[ 62.078920] cloud-init[1188]: apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser
[ 62.088484] cloud-init[1188]: bzip2-doc
[ 62.133350] cloud-init[1188]: The following NEW packages will be installed:
[ 62.144448] cloud-init[1188]: apache2 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1
[ 62.158048] cloud-init[1188]: libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
[ 62.174845] cloud-init[1188]: ssl-cert
[ 62.194091] cloud-init[1188]: 0 upgraded, 13 newly installed, 0 to remove and 34 not upgraded.
```