

CLOUD COMPUTING

LAB-2

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SRN: PES1UG21CS599
SECTION: J

Screenshots:

Learner Dashboard Page

Course modules: Getting Started w

Workbench - Vocareum

RouteTables | VPC Console

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

Services

Search

[Option+S]

N. Virginia

voclabs/user3001713=PES1UG21CS599_Siri_Gowri_H @ 0347-9919-3554

VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

DNS firewall

Route tables (1/3) Info

Find resources by attribute or tag

	Name	Route table ID	Explicit subnet associati...	Edge associations	Main	VPC
<input checked="" type="checkbox"/>	Public Route Table	rtb-0554e2f559ad1422f	4 subnets	-	No	vpc-0dbb30f1
<input type="checkbox"/>	-	rtb-0ee0e7b3576aafb6a	-	-	Yes	vpc-0a020163
<input type="checkbox"/>	-	rtb-0f0b5a862703c32cb	-	-	Yes	vpc-0dbb30f1

rtb-0554e2f559ad1422f / Public Route Table

DetailsRoutesSubnet associationsEdge associationsRoute propagationTags

Details

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0554e2f559ad1422f	No	4 subnets	-
VPC	Owner ID		
vpc-0dbb30f1728022bac Example VPC	034799193554		

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Course modules: Getting Started w

Workbench - Vocareum

ModifyInboundSecurityGroup

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#ModifyInboundSecurityGroupRules:secu...

Services

Search

[Option+S]

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voclabs/user3001713=PES1UG21CS599_Siri_Gowri_H @ 0347-9919-3554

VPC > Security Groups > sg-0fd502fc9597dfdb3 > Edit inbound rules

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules Info

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info
-	HTTP	TCP	80	Any... 0.0.0.0/0	Allow web access Delete

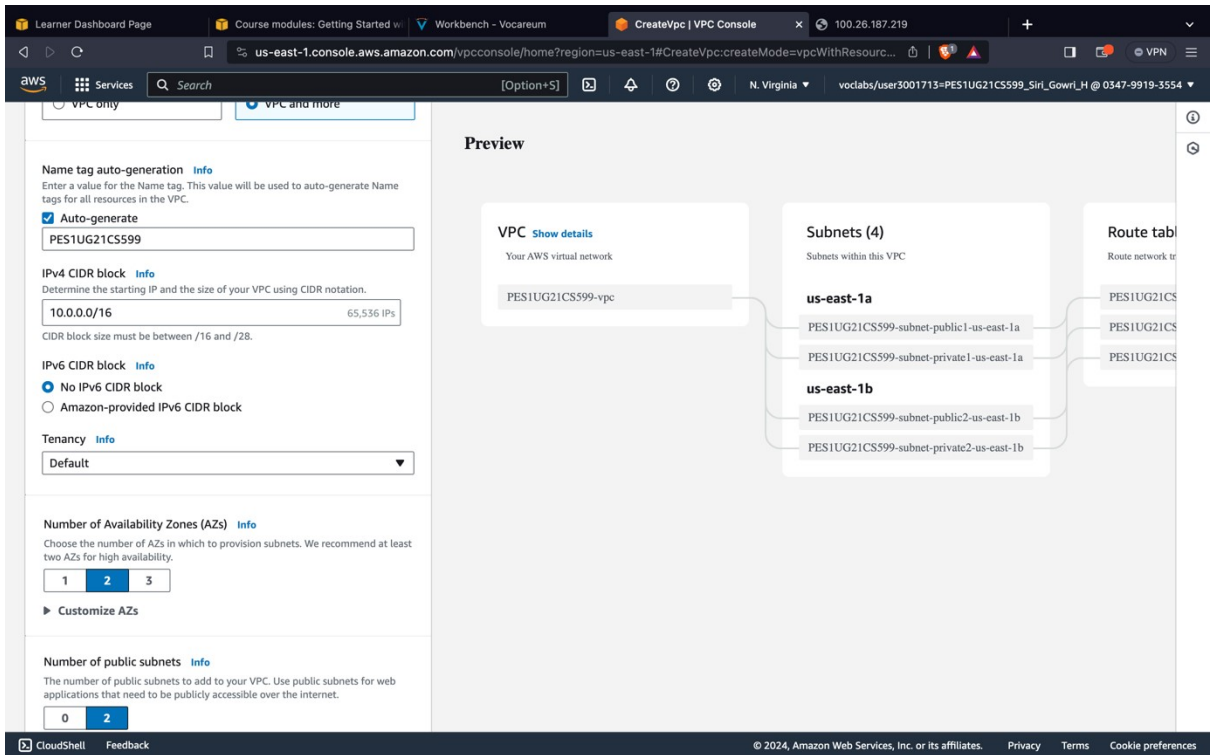
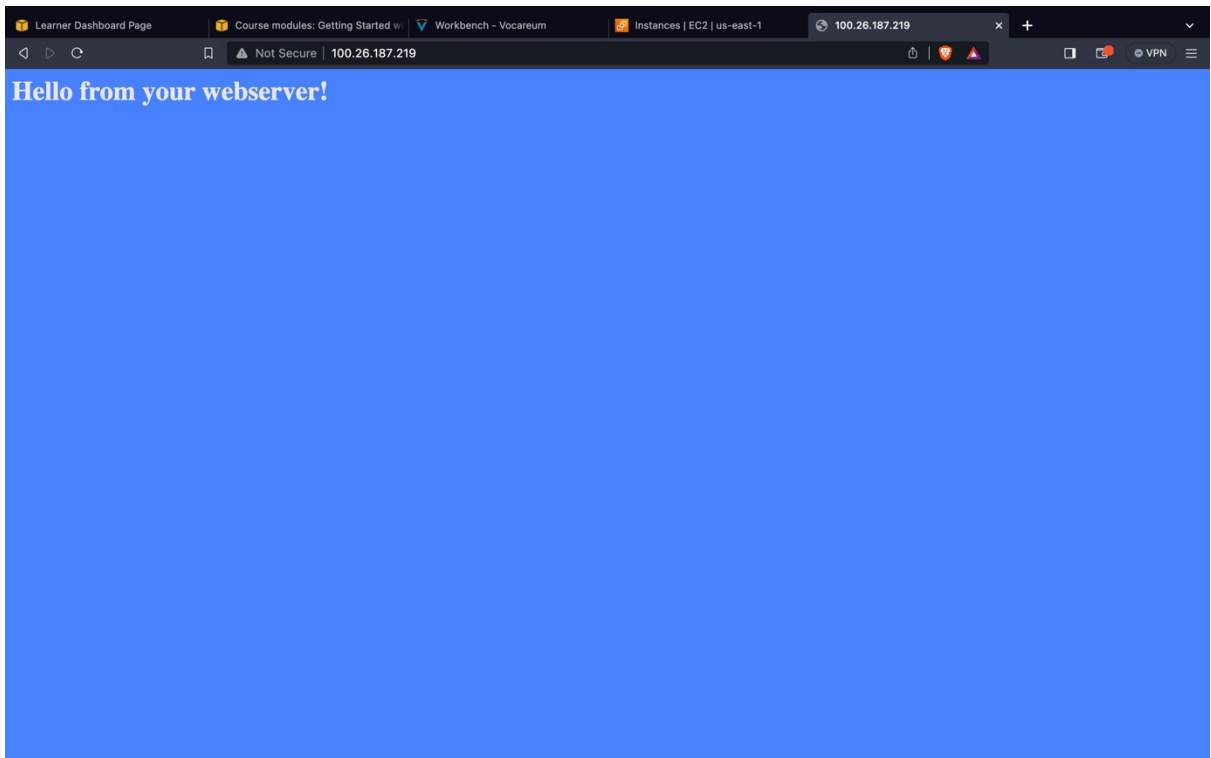
Add rule

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

CancelPreview changesSave rules

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Learner Dashboard Page

Getting Started with Networking Lab

Workbench - Vocareum

CreateVpc | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateVpc:createMode=vpcWithRe...

Search

Option+5

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VPC only

VPC and more

Name tag auto-generation

Info

Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.

Auto-generate

PES1UG21CS599

IPv4 CIDR block

Info

Determine the starting IP and the size of your VPC using CIDR notation.

10.0.0.0/16

65,536 IPs

CIDR block size must be between /16 and /28.

IPv6 CIDR block

Info

No IPv6 CIDR block

Amazon-provided IPv6 CIDR block

Tenancy

Info

Default

Number of Availability Zones (AZs)

Info

Choose the number of AZs in which to provision subnets. We recommend at least two AZs for high availability.

1

2

3

Customize AZs

Number of public subnets

Info

The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.

0

1

2

Number of private subnets

Info

The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.

0

1

2

3

4

Customize subnets CIDR blocks

NAT gateways (5)

Info

Choose the number of Availability Zones (AZs) in which to create NAT gateways. Note that there is a charge for each NAT gateway.

Name

In 1 AZ

1 per AZ

VPC endpoints

Info

Endpoints can help reduce NAT gateway charges and improve security by accessing S3 directly from the VPC. By default, full access policy is used. You can customize this policy at any time.

Name

S3 Gateway

Preview

VPC Show details

Your AWS virtual network

PES1UG21CS599-vpc

Subnets (4)

Subnets within this VPC

us-east-1a

PES1UG21CS599-subnet-public-1-us-east-1a

PES1UG21CS599-subnet-private-1-us-east-1a

us-east-1b

PES1UG21CS599-subnet-public-2-us-east-1b

PES1UG21CS599-subnet-private-2-us-east-1b

Route tables (3)

Route network traffic to resources

PES1UG21CS599-rtb-public

PES1UG21CS599-rtb-private-1-us-east-1a

PES1UG21CS599-rtb-private-2-us-east-1b

Network connections (1)

Connections to other networks

PES1UG21CS599-igw

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Getting Started with Networking Lab

Workbench - Vocareum

vpcs | VPC Console

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

Search

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Rule groups

Your VPCs (1/3)

Info

Search

	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	Example VPC	vpc-0f4183c4841a32301	Available	172.31.0.0/16	-
<input type="checkbox"/>	-	vpc-0b6a2622a8b0828d9	Available	172.31.0.0/16	-
<input checked="" type="checkbox"/>	PES1UG21CS599-vpc	vpc-0c31e4ac0e6969a97	Available	10.0.0.0/16	-

vpc-0c31e4ac0e6969a97 / PES1UG21CS599-vpc

Details

Resource map

CIDRs

Flow logs

Tags

Integrations

Details

VPC ID	vpc-0c31e4ac0e6969a97	State	Available	DNS hostnames	Enabled	DNS resolution	Enabled
Tenancy	Default	DHCP option set	dopt-0e33ba58f0b7f22db	Main route table	-	Main network ACL	-
Default VPC	-	IPv4 CIDR	10.0.0.0/16	IPv6 pool	-	IPv6 CIDR (Network border group)	-

CloudShell

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Learner Dashboard Page | Getting Started with Networking Lab | Workbench - Vocareum | SecurityGroup | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#SecurityGroup:groupId=sg-04b1cc0eaa91afbeb

Services Search [Option+S]

N. Virginia | voclabs/user3001713=PES1UG21CS599_SirI_Gowri_H @ 8230-1347-6602

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CloudShell Feedback

Security group (sg-04b1cc0eaa91afbeb | Web-Server2-SG) was created successfully

Details

VPC > Security Groups > sg-04b1cc0eaa91afbeb - Web-Server2-SG

sg-04b1cc0eaa91afbeb - Web-Server2-SG

Details

Security group name Web-Server2-SG	Security group ID sg-04b1cc0eaa91afbeb	Description Allows HTTP access	VPC ID vpc-0c31e4ac0e6969a97
Owner 823013476602	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Inbound rules Outbound rules Tags

Inbound rules (1)

Name	Security group rule...	IP version	Type	Protocol	Port
-	sgr-01172822153c14...	IPv4	HTTP	TCP	80

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Learner Dashboard Page | Getting Started with Networking Lab | Workbench - Vocareum | Launch an instance | EC2 | us-east-1

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

Services Search [Option+S]

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Metadata version Info
Select

Metadata response hop limit Info
Select

Allow tags in metadata Info
Select

User data - optional Info
Upload a file with your user data or enter it in the field.
Choose file

```
#!/bin/bash
# Install Apache Web Server and PHP
yum install -y httpd mysql
amazon-linux-extras install -y php7.2
# Download Lab files
wget https://aws-tc-largeobjects.s3.us-west-2.amazonaws.com/CUR-TF-100-EDNETW-1-60961/1-lab-getting-started-vpc/s3/inventory-app.zip
unzip inventory-app.zip -d /var/www/html/
# Download and install the AWS SDK for PHP
wget https://github.com/aws/aws-sdk-php/releases/download/3.62.3/aws.zip
unzip aws -d /var/www/html
# Turn on web server
chkconfig httpd on
service httpd start
```

☐ User data has already been base64 encoded

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2 AMI (HVM) - Ker...read more
ami-0c0b74d29ac0dc97

Virtual server type (instance type)
t2.micro

Firewall (security group)
Web-Server2-SG

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

CloudShell Feedback

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Quiz:

The screenshot shows a web browser window with the following elements:

- Browser Tabs:** "Learner Dashboard Page", "Final Assessment", "Getting Started with Compute", and "Instances | EC2 | us-east-1".
- Address Bar:** The URL is `emergingtalent.contentcontroller.com/ScormEngineInterface/dispatch/lti/ltiDispatch.html?studentid=8fc42ca2-8c...`.
- Page Header:** "KEYBOARD SHORTCUTS" is visible in the top right corner.
- Main Content Area:**
 - Section Header:** "Final assessment results" is displayed at the top of the white content box.
 - Score Information:**
 - "Your Score: 100% (100 points)" is shown.
 - "Passing Score: 70% (70 points)" is shown below it.
 - Result Section:**
 - The word "Result:" is centered.
 - Below it, the text "Congratulations! You passed." is displayed.
 - Action Buttons:** Two teal buttons are located at the bottom of the result section: "Review quiz" and "Retry quiz".
- Footer:** A small copyright notice at the bottom of the white box reads: "© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved."
- Video Player Controls:** At the very bottom of the browser window, there is a video player interface with a progress bar, play/pause button, volume icon, and navigation links for "< Previous" and "Continue >".