

# PRÁCTICAS DE LABORATORIO

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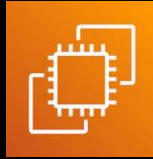
Decimonoveno laboratorio  
(263):

Crear Subredes en VPC



**Instructor:**  
Roberto Landa

# TAREA 1:



En esta tarea, debíamos investigar las necesidades del cliente y construirle una VPC que tuviera alrededor de 15:000 IP privadas disponibles y 50 IP disponibles para la subred pública.

- El bloque CIDR de la VPC debía ser 192.168.0.0/18 (Esto son 16.384 IP disponibles)
- IPv4 de la subred publica debía ser: 192.168.1.0/26 (Esto son 64 IP disponibles)

La VPC cuenta con una sola Subnet pública.

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# Aquí podemos ver la creación de la VPC con la configuración del IPv4 CIDR block que nos pide el cliente (16.384 IP's)

**VPC settings**

Resources to create [Info](#)  
Create only the VPC resource or the VPC and other networking resources.

☐ 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  
FirstVPC

IPv4 CIDR block [Info](#)  
Determine the starting IP and the size of your VPC using CIDR notation.

192.168.0.0/18 16.384 IPs

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

IPv6 CIDR block [Info](#)  
☒ No IPv6 CIDR block  
☐ Amazon-provided IPv6 CIDR block

**Preview**

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

FirstVPC-vpc

Subnets (1)  
Subnets within this VPC

us-west-2a

FirstVPC-subnet-public1-us-west-2a

CloudShell Feedback

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# En esta imagen vemos el bloque CIDR de la subnet publica y la cantidad de IP's

The screenshot displays the AWS VPC console interface. On the left, the configuration sidebar includes sections for 'Number of Availability Zones (AZs)', 'Number of public subnets', 'Number of private subnets', and 'Customize subnets CIDR blocks'. The 'Public subnet CIDR block in us-west-2a' field is highlighted with a red arrow, showing the CIDR block '192.168.1.0/26' and '64 IPs'. The main 'Preview' section on the right shows a diagram of the VPC structure, including a 'VPC' box labeled 'FirstVPC-vpc' and a 'Subnets (1)' box labeled 'us-west-2a' containing 'FirstVPC-subnet-public1-us-west-2a'. A red arrow points to this subnet in the preview diagram.

**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

**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

▼ **Customize subnets CIDR blocks**

Public subnet CIDR block in us-west-2a

192.168.1.0/26 64 IPs

**Preview**

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

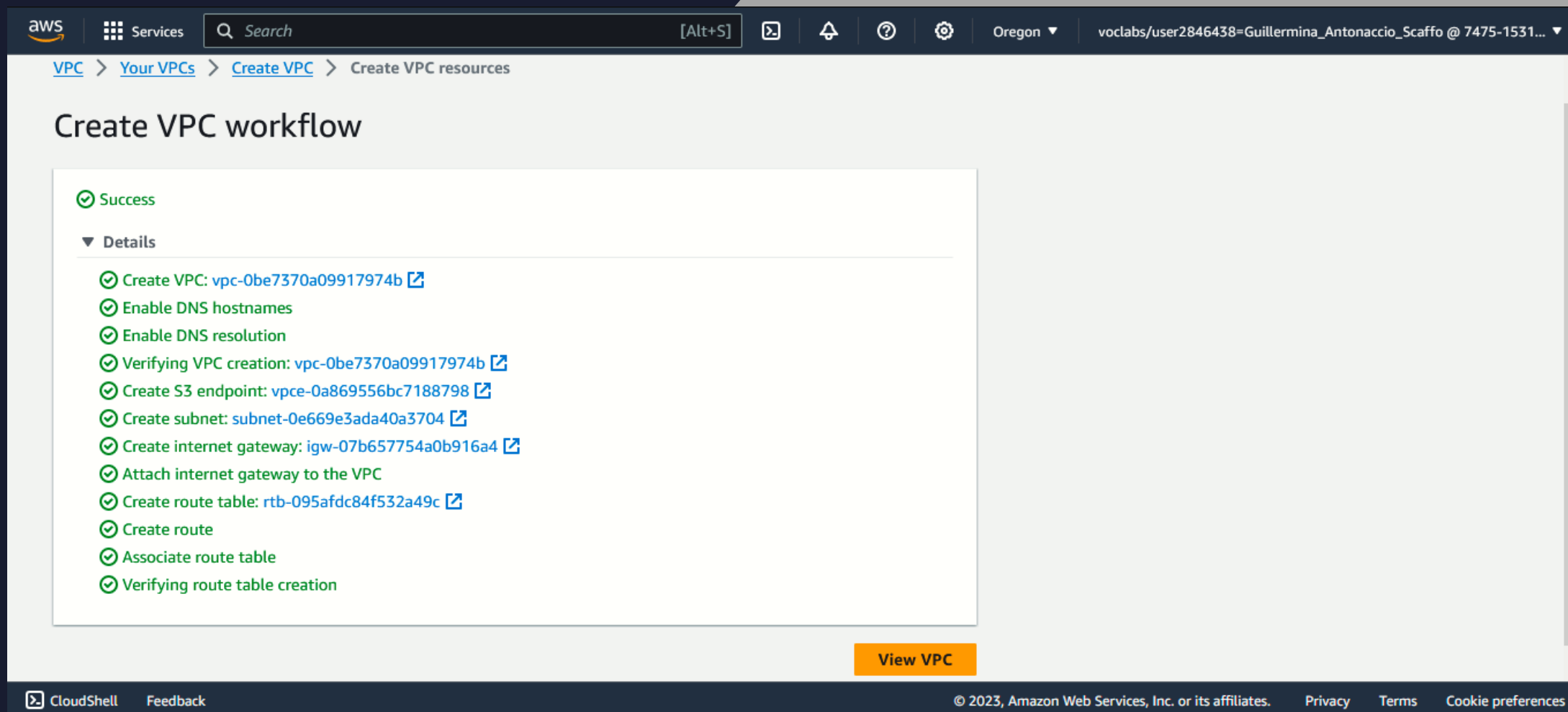
FirstVPC-vpc

**Subnets (1)**  
Subnets within this VPC

us-west-2a

FirstVPC-subnet-public1-us-west-2a

Aquí se observa que la VPC ha sido creada con éxito.

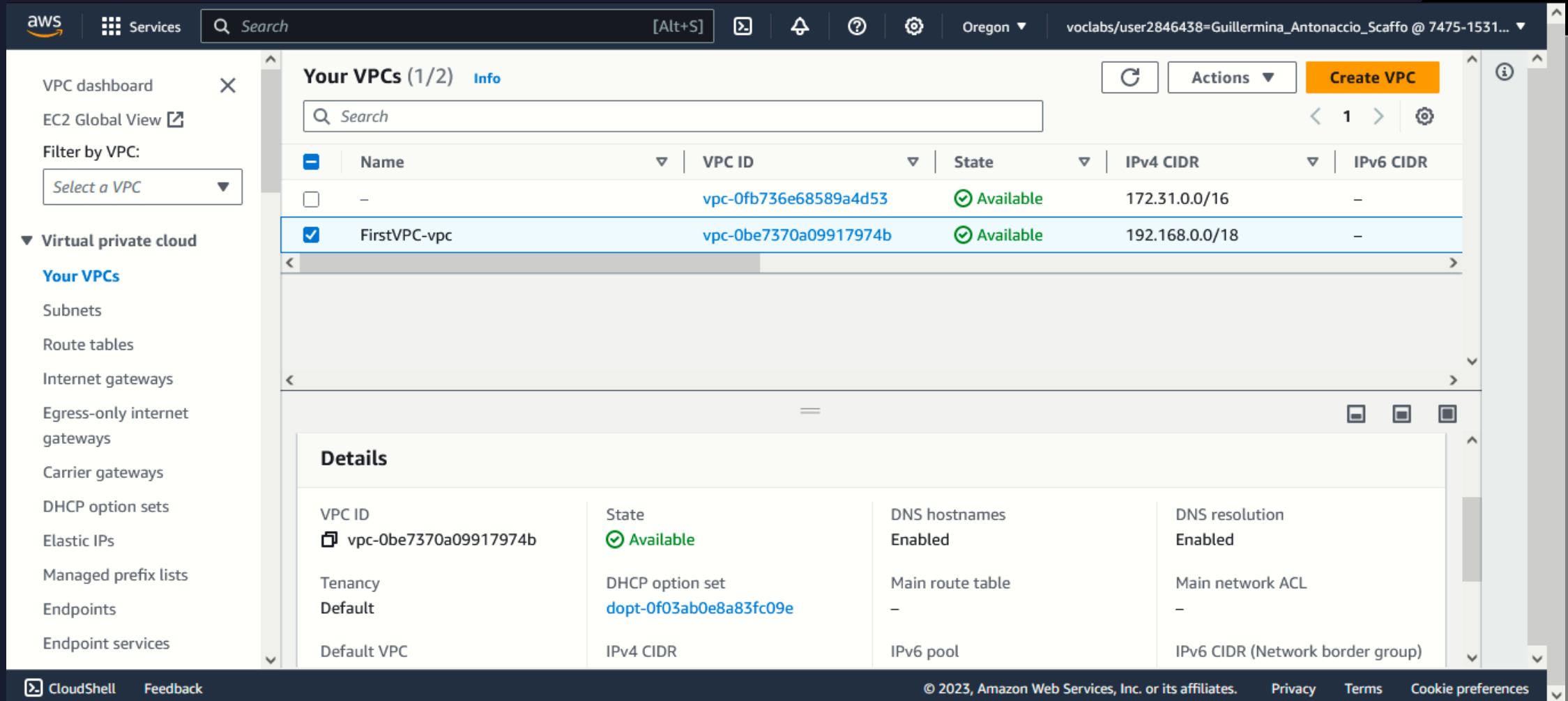


The screenshot displays the AWS Management Console interface. At the top, the navigation bar includes the AWS logo, 'Services', a search bar, and the region 'Oregon'. The breadcrumb trail shows the path: [VPC](#) > [Your VPCs](#) > [Create VPC](#) > Create VPC resources. The main heading is 'Create VPC workflow'. A green checkmark icon and the word 'Success' indicate the workflow is complete. Below this, a 'Details' section lists the steps of the workflow, each with a green checkmark and a link to view the resource:

- ✓ Create VPC: [vpc-0be7370a09917974b](#)
- ✓ Enable DNS hostnames
- ✓ Enable DNS resolution
- ✓ Verifying VPC creation: [vpc-0be7370a09917974b](#)
- ✓ Create S3 endpoint: [vpce-0a869556bc7188798](#)
- ✓ Create subnet: [subnet-0e669e3ada40a3704](#)
- ✓ Create internet gateway: [igw-07b657754a0b916a4](#)
- ✓ Attach internet gateway to the VPC
- ✓ Create route table: [rtb-095afdc84f532a49c](#)
- ✓ Create route
- ✓ Associate route table
- ✓ Verifying route table creation

An orange button labeled 'View VPC' is located at the bottom right of the details section. The footer of the console includes links for 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates, along with links for 'Privacy', 'Terms', and 'Cookie preferences'.

# Así se ve una vez está terminada



The screenshot shows the AWS Management Console interface for the 'Your VPCs' page. The left sidebar contains navigation links for VPC dashboard, EC2 Global View, and various VPC-related services. The main content area displays a table of VPCs, with 'FirstVPC-vpc' selected. The details panel for the selected VPC shows the following information:


Details			
VPC ID	State	DNS hostnames	DNS resolution
vpc-0be7370a09917974b	Available	Enabled	Enabled
Tenancy	DHCP option set	Main route table	Main network ACL
Default	dopt-0f03ab0e8a83fc09e	-	-
Default VPC	IPv4 CIDR	IPv6 pool	IPv6 CIDR (Network border group)

# TAREA 2:



En esta tarea teníamos que hablar con un compañero y que uno de nosotros sea el cliente y el otro el asistente de la nube, para explicarle cómo creamos una VPC y cómo colocamos los bloques CIDR y el rango de los mismos.





Aquí termina el  
laboratorio, muchas  
gracias