

# AWS Immersion Day LAB 0

DEPLOY AVIATRIX IN YOUR LAB ACCOUNT

Aviatrix Systems  
Solutions Team

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## Lab 0 Before



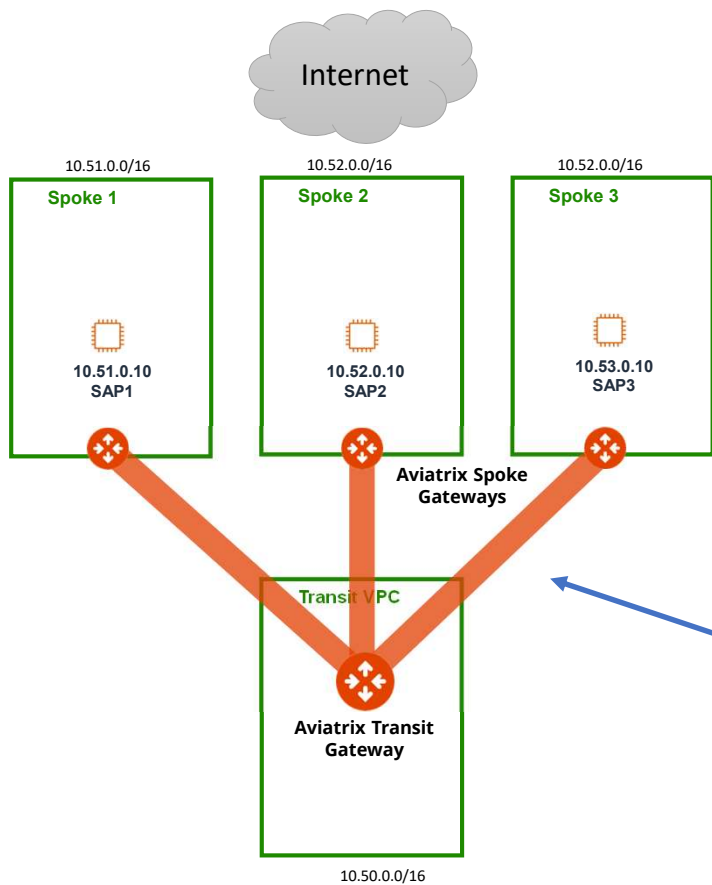
In this Immersion Day we will be using two AWS regions (us-east-1 and us-west-2)

Right now, your lab account has nothing.  
No instances. No VPCs

**AWS us-west-2**

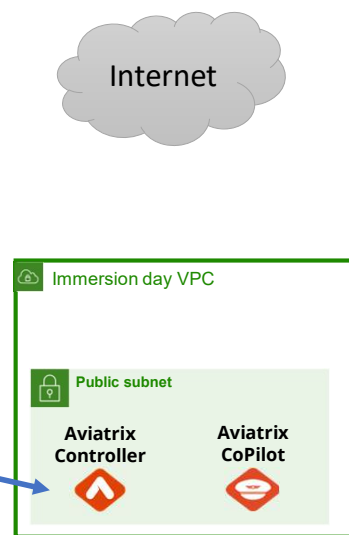
**AWS us-east-1**

## Lab 0 After



**AWS us-west-2**

In this Lab you will deploy Aviatrix Controller and Copilot in us-east-1 using AWS CloudFormation.

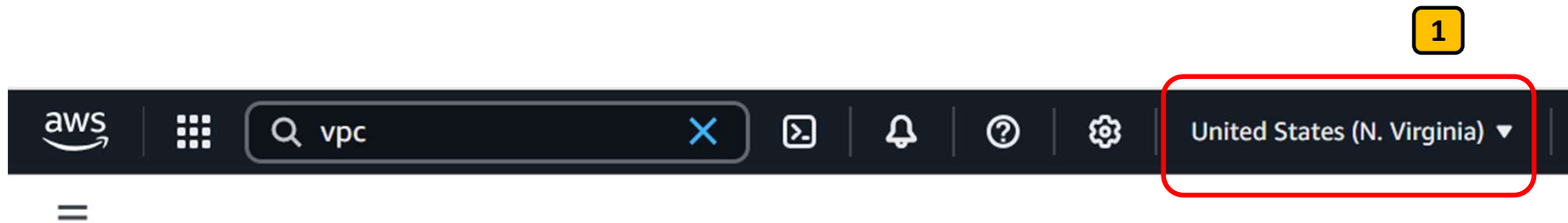


**AWS us-east-1**

The Aviatrix Controller will then deploy VPCs and Aviatrix Gateways in us-west-2 using Terraform.

## Lab 0: Step 0.1

Switch to US-EAST-1 region



Make sure your AWS Console is in the  
us-east-1 **N. Virginia** region. 1



Create the stack

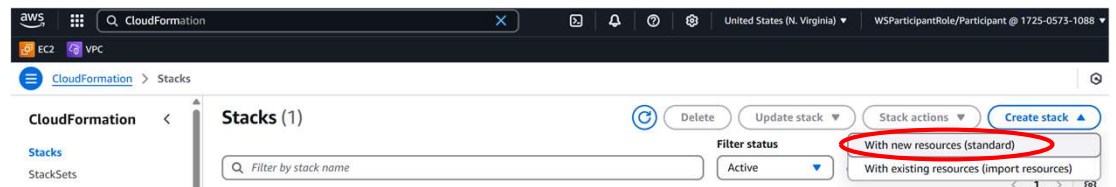
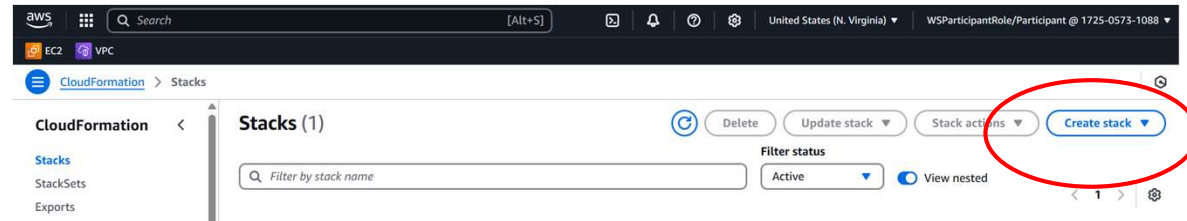
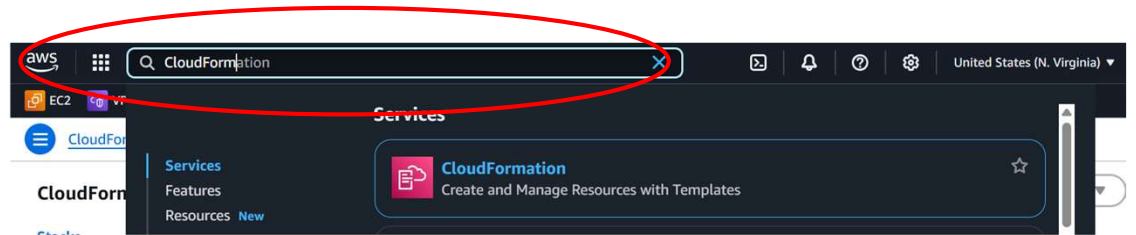
Make sure your AWS Console is in the us-east-1 **N. Virginia** region.

From the AWS Console go to the **CloudFormation** service. 1

Select **Create stack** 2

Select **With new resources (standard)** 3

## Lab 0: Step 0.2





## Lab 0: Step 0.3

Provide the stack URL

Create stack

Keep the default settings of  
**Template is ready**, and  
**Amazon S3 URL**.

Enter the URL below in the Amazon  
S3 URL input field. **1**

Select **Next** **2**

**Prerequisite - Prepare template**  
You can also create a template by scanning your existing resources in the [laC generator](#).

**Prepare template**  
Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

☒ Choose an existing template  
Upload or choose an existing template.

☐ Build from Infrastructure Composer  
Create a template using a visual builder.

**Specify template** [Info](#)  
This [GitHub repository](#) contains sample CloudFormation templates that can help you get started on new infrastructure projects. [Learn more](#)

**Template source**  
Selecting a template generates an Amazon S3 URL where it will be stored. A template is a JSON or YAML file that describes your stack's resources and properties.

☒ Amazon S3 URL  
Provide an Amazon S3 URL to your template.

☐ Upload a template file  
Upload your template directly to the console.

☐ Sync from Git  
Sync a template from your Git repository.

**Amazon S3 URL**

**1**

Amazon S3 template URL

S3 URL: <https://s3.amazonaws.com/aws-immersion-day.aviatrixlab.com/aws-immersionday-us-east-1.yaml>

[View in Infrastructure Composer](#)

**1**

<https://s3.amazonaws.com/aws-immersion-day.aviatrixlab.com/aws-immersionday-us-east-1.yaml>

**2**

Cancel

Next



## Lab 0: Step 0.4

Name the stack

Name the stack  
**immersion-day** **1**

Select **Next** **2**

### Specify stack details

#### Provide a stack name

Stack name

**1**

Stack name must contain only letters (a-z, A-Z), numbers (0-9), and hyphens (-) and start with a letter. Max 128 characters. Character count: 13/128.

#### Parameters

Parameters are defined in your template and allow you to input custom values when you create or update a stack.

**No parameters**

There are no parameters defined in your template

**2**

Cancel

Previous

Next

## Lab 0: Step 0.5

On the next **Configure Stack Options** page just scroll down to the bottom of the page

Under the **Capabilities** section select the I acknowledge **1** checkbox

Then click **Next** **2**

### Capabilities

**i** The following resource(s) require capabilities: [AWS::IAM::Role]

This template contains Identity and Access Management (IAM) resources. Check that you want to create each of these resources and that they have the minimum required permissions. In addition, they have custom names. Check that the custom names are unique within your AWS account. [Learn more](#)

**1** ☒ I acknowledge that AWS CloudFormation might create IAM resources with custom names.

Cancel

Previous

**2**  
Next



## Lab 0: Step 0.6

On the **Review and create** page just scroll down to the bottom of the page and click **Submit** **1**

### Quick-create link

Use quick-create links to get stacks up and running quickly from the AWS CloudFormation console with the same basic configuration as this stack. Copy the URL on the link to share. [Learn more](#) 

[Open quick-create link](#) 

[Create change set](#)

[Cancel](#)

[Previous](#)

[Submit](#)

**1**



## Lab 0: Step 0.7

Observe the stack deployment

On the next page you'll see your stack deploying if you select the **Events** tab

WSDefaultPolicy

The deployment will take about 30 minutes to complete.

The screenshot displays the AWS CloudFormation console. On the left, the 'Stacks (2)' list shows two stacks: 'immersion-day' (created 2025-04-25 09:57:06 UTC-0700, status CREATE\_COMPLETE) and 'pre-requisites' (created 2025-04-22 16:46:30 UTC-0700, status CREATE\_COMPLETE). The 'immersion-day' stack is selected. On the right, the 'immersion-day' stack details page is shown with the 'Events' tab active. The events list shows 65 events, with the most recent being 'immersion-day' at 2025-04-25 09:59:44 UTC-0700. Other events include 'AviaatrixInstanceProfile', 'Ec2InstanceProfile', 'AviaatrixEIP', 'AviaatrixEIP', 'AviaatrixEIP', 'AviaatrixController', 'AviaatrixController', 'AviaatrixController', and 'AviaatrixCopilotEIP'.

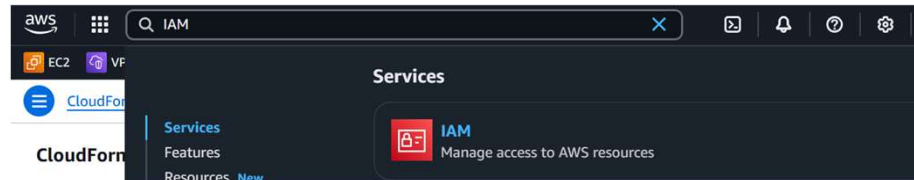
Timestamp	Logical ID
2025-04-25 09:59:44 UTC-0700	immersion-day
2025-04-25 09:59:41 UTC-0700	AviaatrixInstanceProfile
2025-04-25 09:59:41 UTC-0700	Ec2InstanceProfile
2025-04-25 09:59:40 UTC-0700	AviaatrixEIP
2025-04-25 09:59:23 UTC-0700	AviaatrixEIP
2025-04-25 09:59:22 UTC-0700	AviaatrixEIP
2025-04-25 09:59:21 UTC-0700	AviaatrixController
2025-04-25 09:59:09 UTC-0700	AviaatrixController
2025-04-25 09:59:07 UTC-0700	AviaatrixController
2025-04-25 09:59:06 UTC-0700	AviaatrixCopilotEIP



## Lab 0: Step 0.8

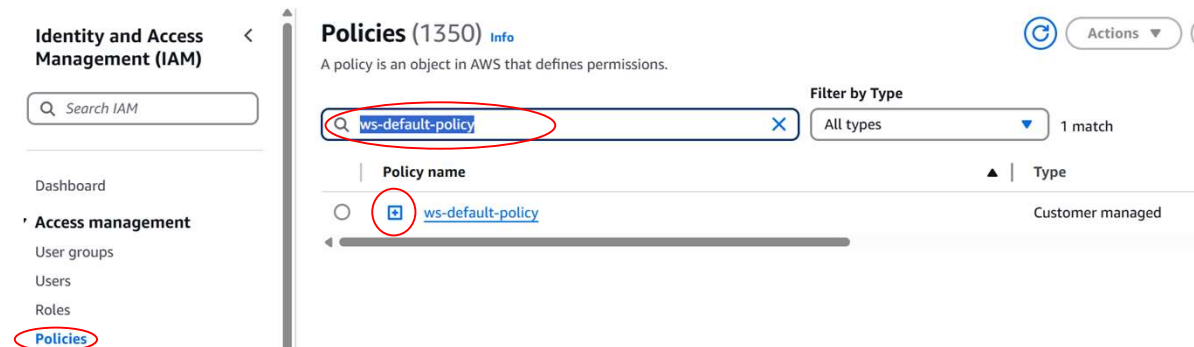
Find the IAM Policy Role Permissions

Search for and click on the **IAM** service



Click on **Policies** and search for the policy named **ws-default-policy**

Click on the + next to the policy



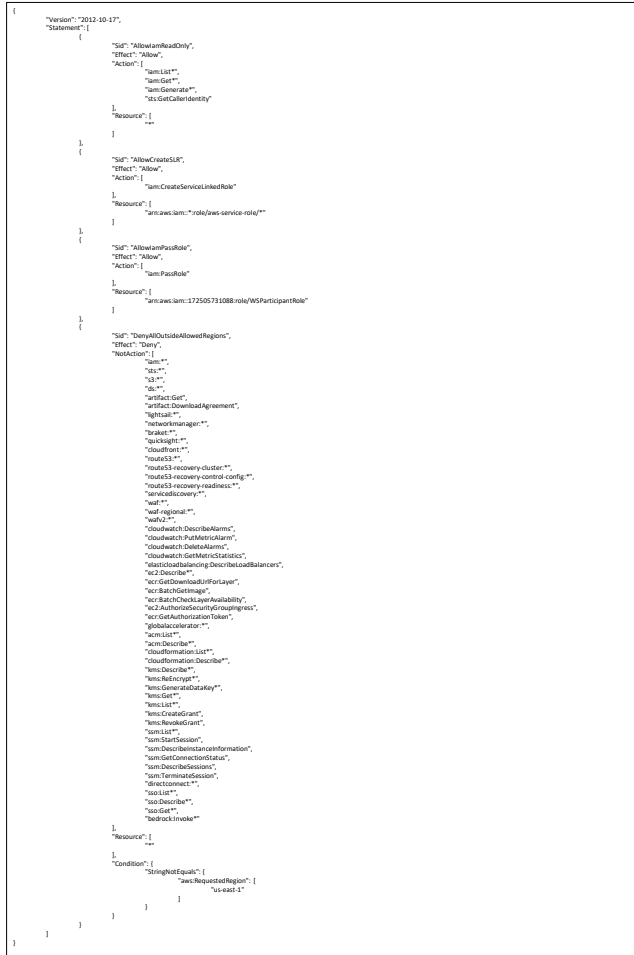
Click on **Edit**





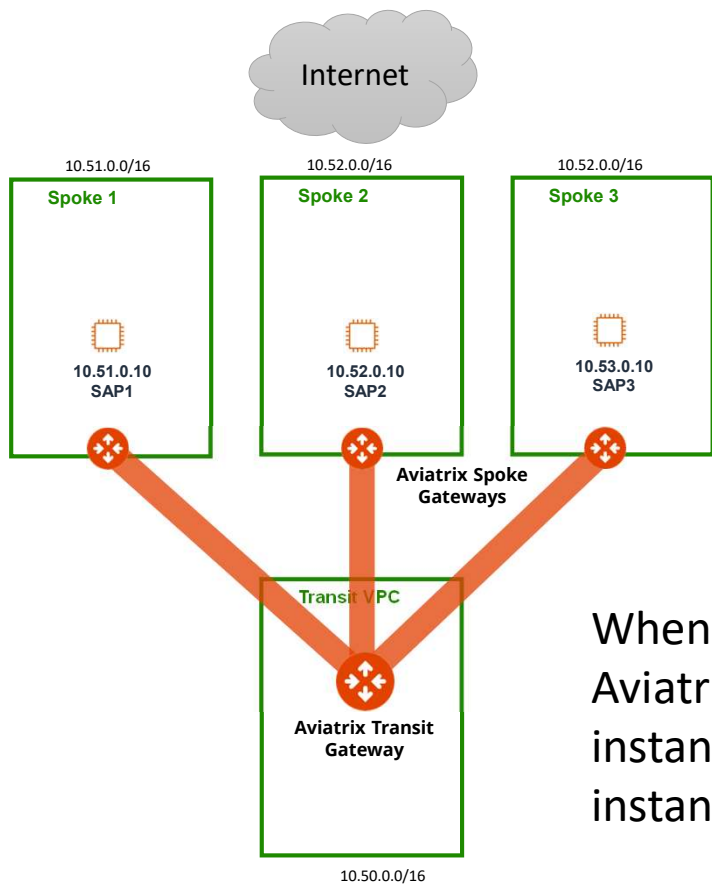
In the Policy Editor, replace all of the policy lines with the following Policy:

On the **Review and save** screen scroll to the bottom and click on **Save changes**

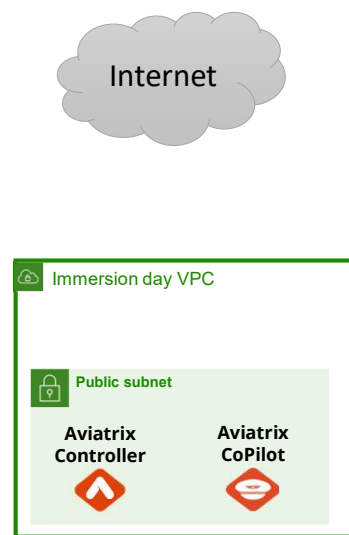




## Lab 0 Done



**AWS us-west-2**



**AWS us-east-1**

When the deployment is done, you'll see the Aviatrix Controller and CoPilot as EC2 instances in us-east-1, and you'll see VPCs and instances, Aviatrix Gateways in us-west-2.