

# AWS Immersion Day LAB 0

DEPLOY AVIATRIX IN YOUR LAB ACCOUNT

**Ben Biley**  
Solutions Engineer  
Aviatrix Systems

[www.aviatrix.com](http://www.aviatrix.com)





## Lab 0 Before



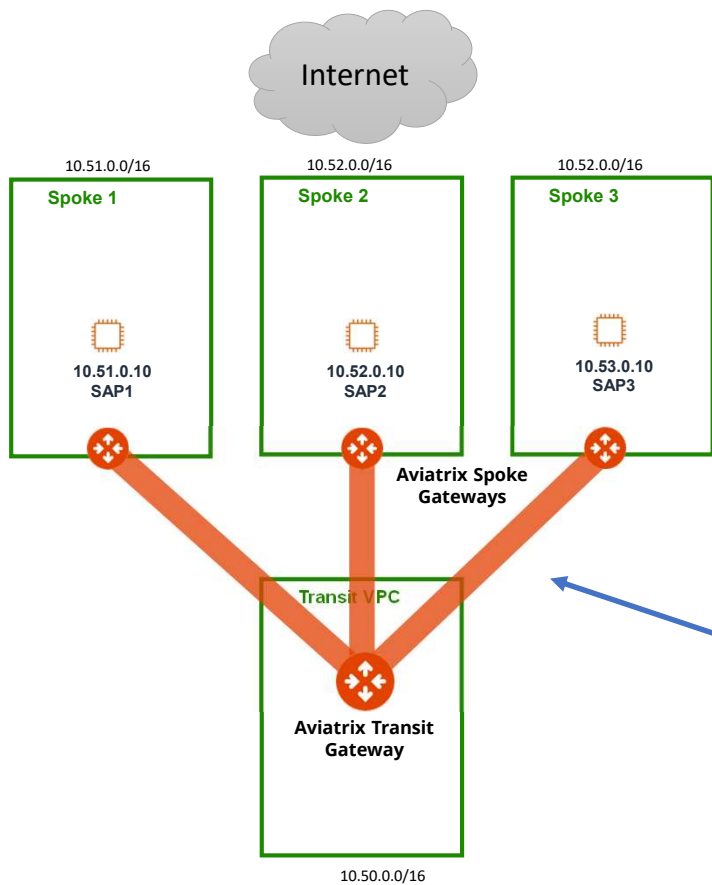
In this Immersion Day we will be using two AWS regions (us-east-1 and us-west-2)

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

**AWS us-west-2**

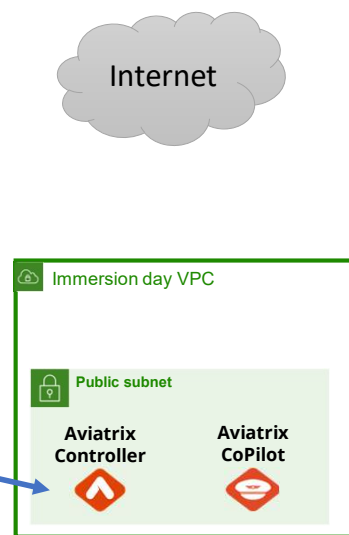
**AWS us-east-1**

## Lab 0 After



**AWS us-west-2**

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

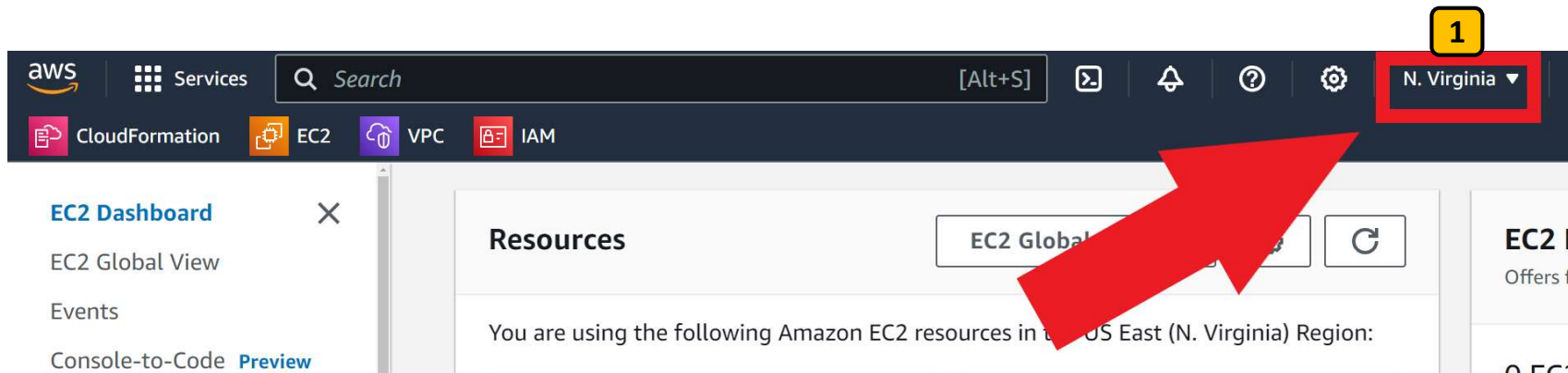


**AWS us-east-1**

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**

## Lab 0: Step 0.2

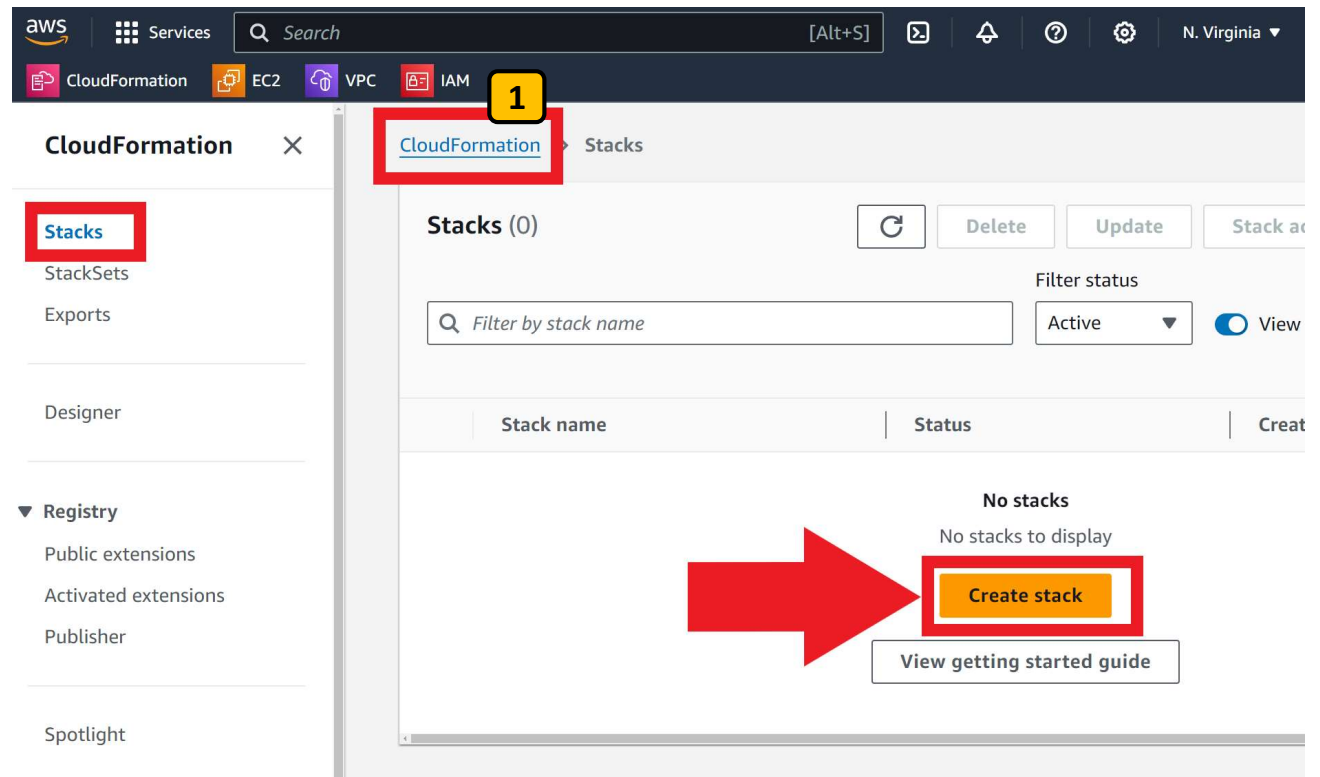
Create the stack

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 **Stacks** **2**

Select **Create stack** **3**





## Lab 0: Step 0.3

Provide the stack URL

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**

Create stack

**Prerequisite - Prepare template**

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

☒ Template is ready ☐ Use a sample template ☐ Create template in Designer

**Specify template**  
A template is a JSON or YAML file that describes your stack's resources and properties.

Template source

☒ Amazon S3 URL ☐ Upload a template file ☐ Sync from Git - new

Provide an Amazon S3 URL to your template. Upload your template directly to the console. 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 **2**

View in Designer

Cancel Next

**1**

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



## 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**

immersion-day

(A-Z and a-z), numbers (0-9), and dashes (-).

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

Cancel Previous **Next** **2**



## Lab 0: Step 0.5

On the next Stack Options page just scroll down and click **Next** 1

► Notification options

► Stack creation options

Cancel Previous **Next**

On the next Stack Review page just scroll down, select the I acknowledge checkbox and click **Submit** 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](#)

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

Create change set Cancel Previous **Submit**





## Lab 0: Step 0.4

Observe the stack deployment

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

The deployment will take about 30 minutes to complete.

immersion-day

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change s

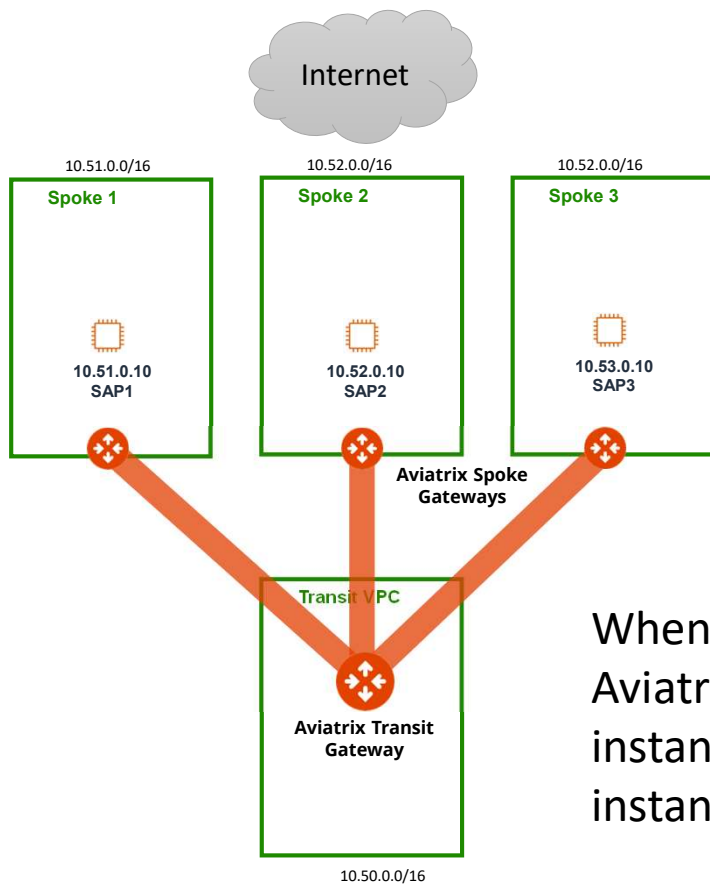
Events (52) Detect root cause

Search events

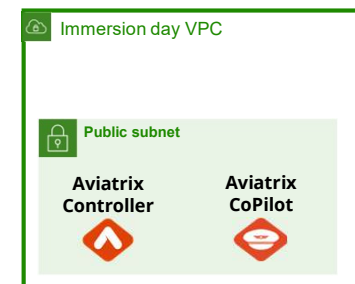
Timestamp	Logical ID	Status	Status reason
2023-12-12 17:54:27 UTC-0600	AviatrixController	CREATE_IN_PROGRESS	Resource creation Initiated
2023-12-12 17:54:25 UTC-0600	AviatrixController	CREATE_IN_PROGRESS	-
2023-12-12 17:54:24 UTC-0600	AviatrixCopilotEIP	CREATE_COMPLETE	-
2023-12-12 17:54:07 UTC-0600	AviatrixCopilotEIP	CREATE_IN_PROGRESS	Resource creation Initiated
2023-12-12 17:54:06 UTC-0600	AviatrixCopilotEIP	CREATE_IN_PROGRESS	-
2023-12-12 17:54:04 UTC-0600	AviatrixCopilot	CREATE_COMPLETE	-
2023-12-12 17:53:49 UTC-0600	CreateAviatrixAssumeRolePolicy	CREATE_COMPLETE	-



## 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.