Day 2 – Create Security Group (AWS)

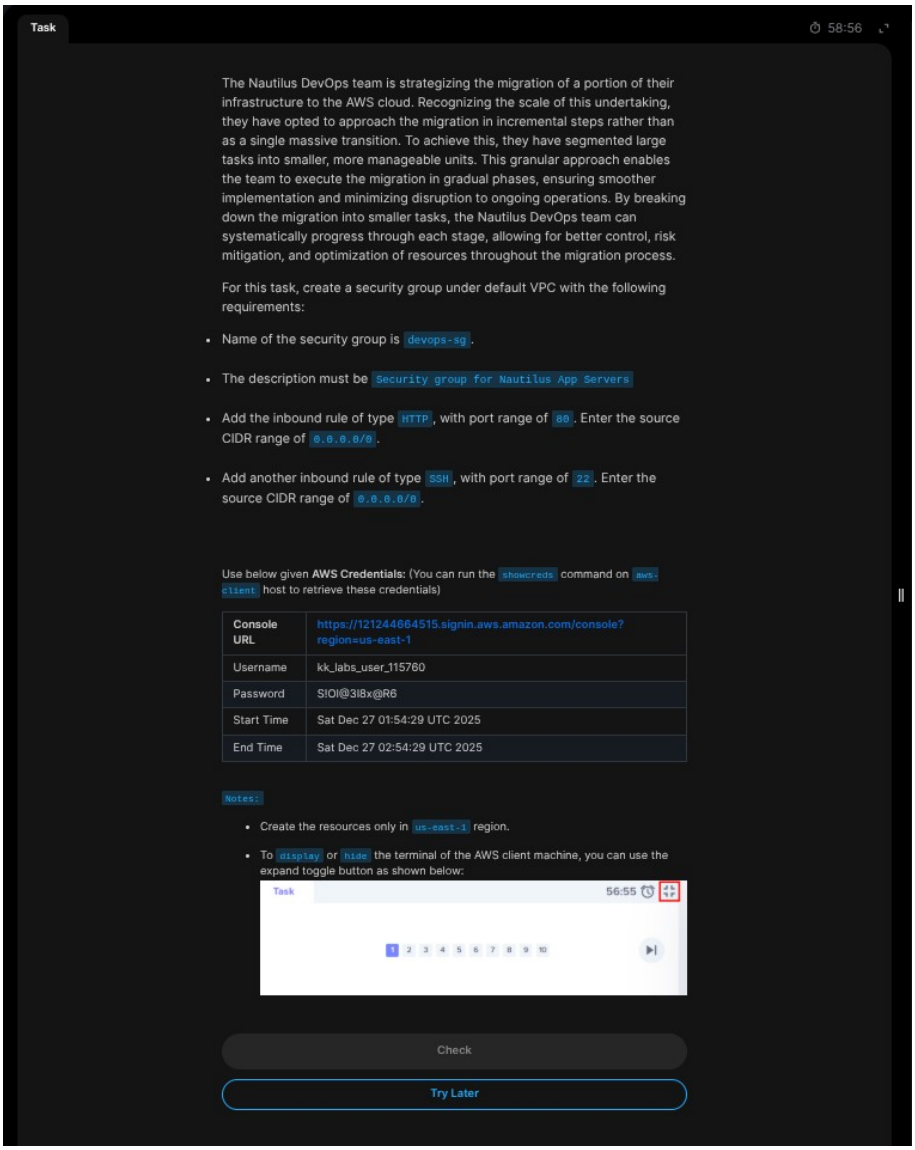
Challenge

100 Days of Cloud – AWS Track
Day 2 – Networking & Security Fundamentals

🎯 Objective

Create an **AWS Security Group** in the default VPC to control inbound traffic for application servers.

This task demonstrates understanding of **AWS network security**, inbound traffic rules, and region-specific resource creation.



📌 Task Requirements

Requirement	Value
Security Group Name	devops-sg
Description	Security group for Nautilus App Servers
VPC	Default VPC
Region	us-east-1
Inbound Rule 1	HTTP – Port 80 – Source 0.0.0.0/0
Inbound Rule 2	SSH – Port 22 – Source 0.0.0.0/0

Concept Overview

An **AWS Security Group** acts as a virtual firewall that controls inbound and outbound traffic for AWS resources such as EC2 instances.

- Rules are **stateful**
- Only allowed traffic is permitted
- Commonly used to control application and administrative access

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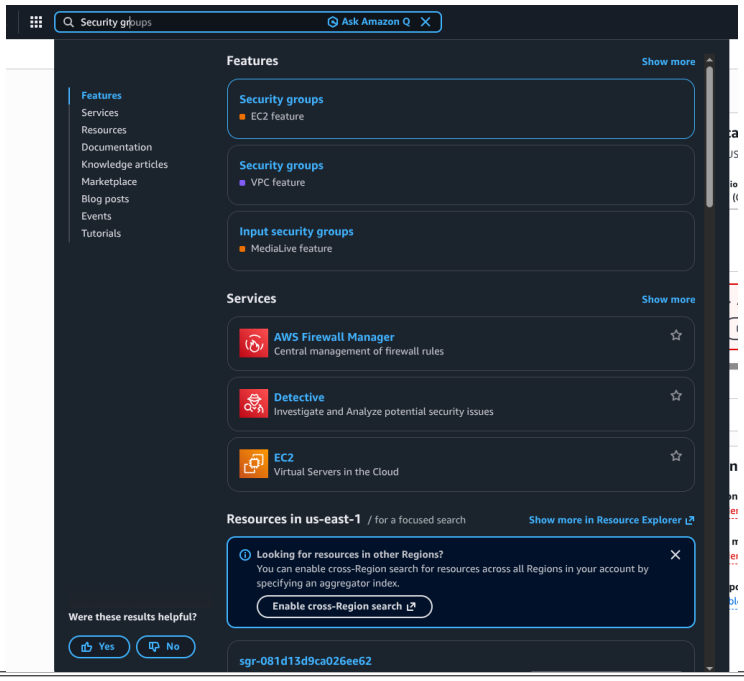
🛠️ Implementation (AWS Management Console)

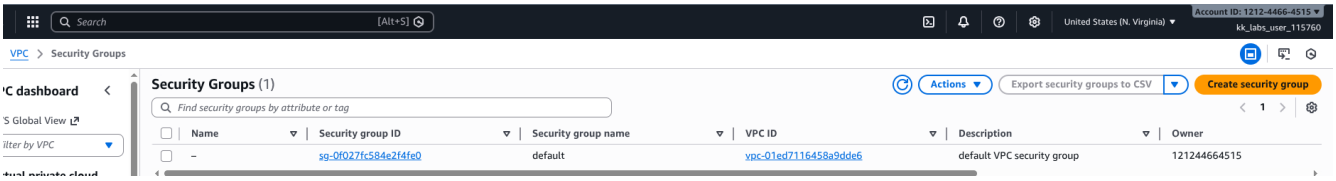
Step 1: Log in to AWS Console

- Logged in to the AWS Management Console using the provided credentials
- Confirmed the region is set to **us-east-1**



Step 2: Navigate to Security Groups

- Used the search bar to find **VPC**
- Clicked on **Security Groups** under the VPC service



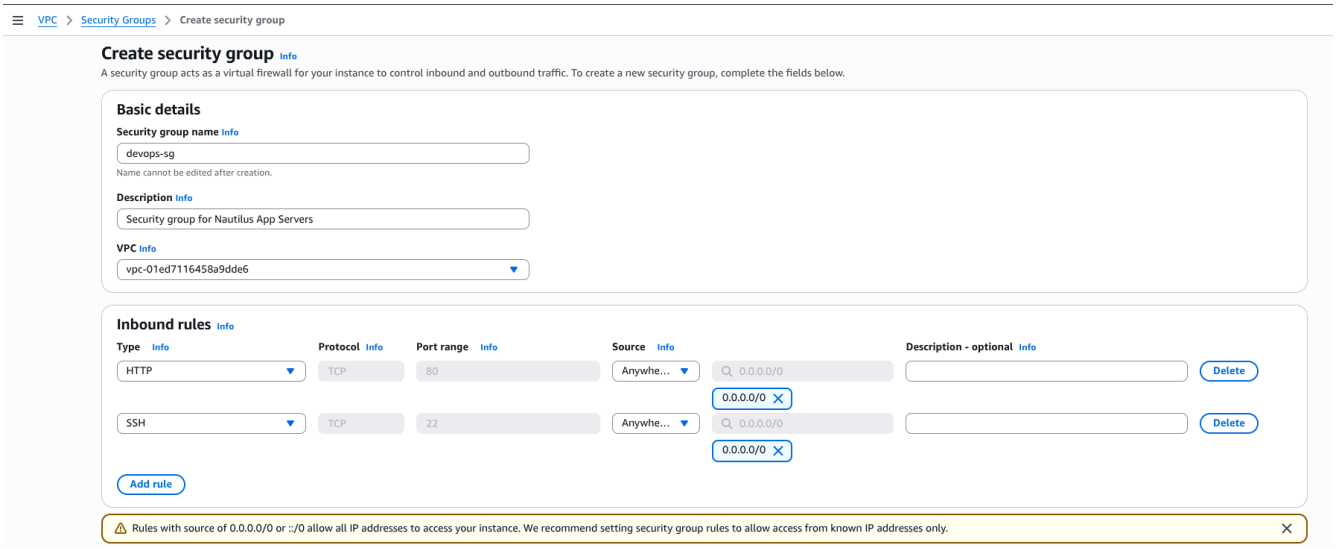
Step 3: Create a New Security Group

- Clicked **Create security group**
- Selected **Default VPC**
- Entered the following details:
  - **Name:** devops-sg
  - **Description:** Security group for Nautilus App Servers

Step 4: Configure Inbound Rules

Added the following inbound rules:

- **HTTP**
  - Port: 80
  - Source: 0.0.0.0/0
- **SSH**
  - Port: 22
  - Source: 0.0.0.0/0



Step 5: Create Security Group

- Reviewed all configuration details
- Clicked **Create security group**

✅ Outcome

- Successfully created a security group named devops-sg
- Configured HTTP and SSH access from all IP addresses
- Security group is ready to be attached to EC2 instances

Key Takeaways

- Security Groups control inbound and outbound traffic in AWS
- Proper rule configuration is critical for accessibility and security
- Region selection matters when creating AWS resources

🔖 Proof of Work

This task demonstrates hands-on experience with: - AWS VPC and Security Groups - Network access control using inbound rules - AWS Console navigation and configuration

Screenshots included provide visual proof of real AWS console work.

Next: Day 3 – Create Subnet