ANSIBLE:

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Lab-1:

// INTRODUCTION TO ANSIBLE COURSE:

INTRODUCTION OF ANSIBLE INSTALLATION OF ANSIBLE YAML IMTRODUCTION ANSIBLE INVENTORY FILES ANSIBLE PLAYBOOKS VARIABLES CONDITIONALS LOOPS ROLES

// ANSIBLE DOCUMENTATION

https://docs.ansible.com/

Lab-2:

AWS EC2 MACHINES:

ANSIBLE-MASTER: DONE ANSIBLE-AGENT1: DONE ANSIBLE-AGENT2: DONE

ANSIBLE-AGENT3:

SELECT THE AMI: ami-04ea996e7a3e7ad6b

LAUNCH AN INSTANCE:

- 1. Choose AMI
- 2. Choose Instance Type
- 3. Configure Instance
- 4. Add Storage
- 5. Add Tags
- 6. Configure Security Group
- 7. Review

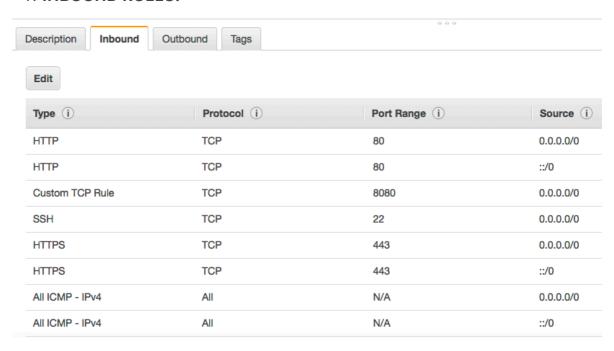
// CREATED AN AWS MACHINE CALLED:

ansible-agent3

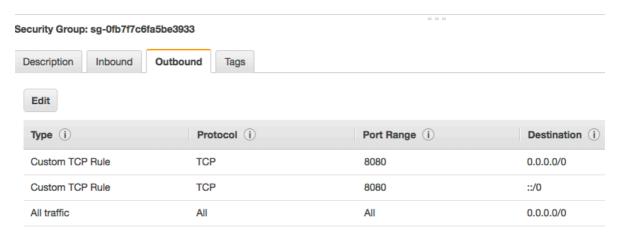
// CHECK THE SECURITY GROUPS:

ADD THE NEW RULES IN SG

1. INBOUND RULES:



2. OUTBOUND RULES:



// CONNEC THE AWS EC2:
SELECT THE EC2 INSTANCE
CLICK ON "CONNECT"
// MAKE SURE KEY SHOULD BE PRESENT IN SAME LOCATION, "*.pem" file:
ssh -i "<KEY-PAIR>" ubuntu@ec2-52-66-213-213.apsouth-1.compute.amazonaws.com

// CHANGE THE HOSTNAME:

ubuntu@ip-172-31-27-113:~\$ sudo hostname ansible-agent3
ubuntu@ip-172-31-27-113:~\$ hostname
ansible-agent3

ubuntu@ip-172-31-27-113:~\$ cat /etc/hosts 127.0.0.1 localhost ansible-agent3

ubuntu@ip-172-31-27-113:~\$ cat /etc/hostname #ip-172-31-27-113 ansible-agent3

// TO MAANAGE THE AWS INSTALL AWS CLI:

https://docs.aws.amazon.com/cli/latest/userguide/install-macos.html

// EACH TIME IP GONNA TO BE CHANE WHENEVER YOU RESTART THE AWS EC2 MACHINE:

// AWS COMMAND LINE INTERFACE:

https://docs.aws.amazon.com/cli/latest/index.html

// MANAGE AWS INSTANCES:

https://docs.aws.amazon.com/cli/latest/reference/ec2/start-instances.html

EXAMPLE:

aws ec2 start-instances --instance-ids i-1234567890abcdef0

// INSTALL AWS CLI IN UBUNTU MACHINE:

ubuntu@ansible-agent3:~\$ aws configure

The program 'aws' is currently not installed. You can install it by typing: sudo apt install awscli

ubuntu@ansible-agent3:~\$ sudo apt install awscli

// FACING AN ERROR

ubuntu@ansible-agent3:~\$ sudo apt-get update

ubuntu@ansible-agent3:~\$ sudo apt install awscli // WORKING

PERFECTLY

// DOWNLOAD THE SECURITY CREDENTIALS:

// https://docs.aws.amazon.com/general/latest/gr/managing-aws-access-keys.html

MY ACCOUNG -> MY Security Credentials -> DOWNLOAD AND KEEP THE

ACCESS AND SECRET KEY

ubuntu@ansible-agent3:~\$ aws configure

// https://docs.aws.amazon.com/cli/latest/userguide/cli-chap-configure.html

\$ aws configure

AWS Access Key ID [None]: *AKIAIOSFODNN7EXAMPLE*AWS Secret Access Key [None]: *wJairXUtnFEMI/K7MDENG/*

bPxRfiCYEXAMPLEKEY

Default region name [None]: *us-west-2*Default output format [None]: *json*