

ANSIBLE:

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Lab-1:

// INTRODUCTION TO ANSIBLE COURSE:

**INTRODUCTION OF ANSIBLE
INSTALLATION OF ANSIBLE
YAML INTRODUCTION
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:

Description	Inbound	Outbound	Tags
<div>Edit</div>			
Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
HTTP	TCP	80	0.0.0.0/0
HTTP	TCP	80	::/0
Custom TCP Rule	TCP	8080	0.0.0.0/0
SSH	TCP	22	0.0.0.0/0
HTTPS	TCP	443	0.0.0.0/0
HTTPS	TCP	443	::/0
All ICMP - IPv4	All	N/A	0.0.0.0/0
All ICMP - IPv4	All	N/A	::/0

2. OUTBOUND RULES:

Security Group: sg-0fb7f7c6fa5be3933			
Description	Inbound	Outbound	Tags
<div>Edit</div>			
Type ⓘ	Protocol ⓘ	Port Range ⓘ	Destination ⓘ
Custom TCP Rule	TCP	8080	0.0.0.0/0
Custom TCP Rule	TCP	8080	::/0
All traffic	All	All	0.0.0.0/0

// 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.ap-
south-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 MANAGE 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**