**Topics Covered as on 21/12/2019**

**Basics**

**AWS Intro**

**EC2**

AMI

EBS Volume

Snapshots

Elastic IP Address to an Instance (Fixed IP)

Instance Types

Instance Metadata

Security Groups

EC2 Key Pairs

Network Interfaces

Public and Private IP Addresses

DNS Name of Instance

Bootstrapping

**VPC**

Network

Subnets

Route Tables

Internet Gateways

NAT G/w or NAT Instances

Security Groups

Peering between VPC

**ELB**

**AutoScaling**

**Lambda**

**IAM**

**S3**

**Route53**

**Elastic Beanstalk**

**To be completed as on 21/12/2019**

**RDS**

**CloudWatch**

**CloudFront**

**CloudFormation**

**CloudFormer**

**Elastic Transcoder**

**EFS**

[**Hassan Hussain**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20144%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209437196%3c/onRightClick%3e%22%3e%3c/A%3e) **(to** [**Organizer(s) Only**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)**):**

7:27 PM: I have a question if we missed live session there is any way we can catch later?

[**vishal agnihotri**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) **(to** [**Organizer(s) Only**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)**):**

7:27 PM: i want to ask a que. reg. pay as you use

[**vishal agnihotri**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) **(to** [**Organizer(s) Only**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)**):**

7:28 PM: if we use a server for 2 month then after 6 months we required for more 2 same server.

# [AMAR KUMAR SINHA](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20135%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208847372%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:31 PM: i had 5 years experience over IT sector but able to set any domain. My interested in cloud computing dats why I choose this certification. Is it necessary to change our current designation first?

Hypervisor:

Type 1: runs directly over h/w 🡨 we use in Data Centers

Ex of type hypervisor: ESXi, MS Hyper-V, XEN Hypervisor.

Type2: (Hosted Hypervisor) 🡪 VMWare Workstation, Oracle Box etc.

Base of Cloud Computing is Virtualization

# [Jean Claude MBARAGA](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20103%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206750220%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:56 PM: Sharma, I am new in USA, i am trying to get a job in IT field, and i failed b'se  of experience, i choose this AWS to help me , back in IT field.

# [Subbanarasa Puttana](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20139%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209109516%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:56 PM: In Windows 10 , I could see Hyper-V can be enabled. Is it Type-1 or 2 ?

# [Nabajeet Das](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20138%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209043980%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:58 PM: Sir, Esxi hyver v which based on?

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:58 PM: IBM aix is also on Type 1?

# [MD RIAZUDDIN](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20110%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207208972%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:59 PM: baremeathod machine mean?

Bare Metal 🡪 directly over h/w

[**AMAR KUMAR SINHA**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20135%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208847372%3c/onRightClick%3e%22%3e%3c/A%3e) **(to** [**Me - Private**](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)**):**

7:59 PM: can you please explain virtualization again.

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20111%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207274508%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:01 PM: how we can install this type1 hyper in H/W, is it works as a OS?

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:02 PM: Nutanix is also consider under Type 1?

# [Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:03 PM: can we create different OS VM's or same OS type of VM's?

PaaS Examples: 🡪 Google App Engine

AWS Elastic Beanstalk

MS Azure

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:20 PM: Difference between IaaS and PaaS?

[**vishal agnihotri**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) **(to** [**Organizer(s) Only**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)**):**

8:25 PM: are these 3 only in AWS of base of cloud computing?

[**Jean Claude MBARAGA**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20103%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206750220%3c/onRightClick%3e%22%3e%3c/A%3e) **(to** [**Organizer(s) Only**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)**):**

8:25 PM: Difference between as PaaS and SaaS?

# [AMAR KUMAR SINHA](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20135%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208847372%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:47 PM: Sir my card details is not accpeted even i put the correct details

# [AMAR KUMAR SINHA](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20135%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208847372%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:48 PM: Error: Sorry, there was an error processing your request. Please try again and if the error persists, contact Amazon customer support.

1. Internet Connection is too slow
2. Wrong Information
3. Card is not active
4. You are working on limited/filtered channel
5. Working on Company’s VPN Connection

**LAB: Creating my first EC2 Instance (Virtual Machine)**

**Operating System**

**Configuration of the machine**

**Storage (Hard disk) 🡨 Block Device**

**Using EC2, we can create virtual machine/s in AWS**

**Once the instance is created**

**How to take its remote?**

**Linux Machine/Instance 🡪 remote**

**Windows Machine 🡪 remote**

**Creating Linux instance**

**Free Tool**

**Mobaxterm 🡪 .pem**

**PuTTy 🡪 .ppk**

**.pem 🡪 .ppk**

# [AMAR KUMAR SINHA](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20135%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208847372%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:39 PM: Watever we are creating now we have to select loaction as N. Virginia coj all the updated version of AWS is from that region only?

# [Mayank Jain](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20116%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207602188%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:53 PM: sir if the machine was windows and we have the data on it and we have stopped the machine so the data is still there when we login to same machine next time

[**Amey Ablankar**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20149%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209764876%3c/onRightClick%3e%22%3e%3c/A%3e) **(to** [**Me - Private**](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)**):**

9:54 PM: If I need to set the static IP, it will not be change after start and stop

**Today’s Learning**

**Basics of Cloud Computing**

**AWS Free Tier Account**

**Created an EC2 Linux Instance**

**Taking Remote of Linux Instance**

[**sridhar sontireddy**](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20112%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207340044%3c/onRightClick%3e%22%3e%3c/A%3e) **(to** [**Me - Private**](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)**):**

9:57 PM: if i use same security group for two ec2 instances then is it possible to terminate one instance.

**Today’s Agenda:**

1. **AWS Intro**
2. **Why AWS**
3. **Global Infra**
4. **AWS Region**
5. **AWS AZ**
6. **Edge Location**
7. **Reference Model of AWS**
8. **AWS Core Services**
9. **AWS Cloud Platform**
10. **Terminology**
11. **Configure/Launch Windows Instance**
12. **AWS EC2**

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20108%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207077900%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:37 PM: Would it be helplful to determine on which AZ should we work?

# [Dileep Moudgalya](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20135%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208847372%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:37 PM: does it make a difference if we are creating an instance in a particular region/AZ versus default ?

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20139%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209109516%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:38 PM: subnet is clear but if we have to change the region then van we change from top left

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20139%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209109516%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:38 PM: so the machine will create on another region

# [Vaibhav Pandey](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20124%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208126476%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:38 PM: Does AWS have any control on these selection ?

**Edge Location 🡨**

# [MD RIAZUDDIN](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20104%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206815756%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:02 PM: elastic benstalk explane plz

**PaaS**

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20139%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209109516%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:03 PM: Lambda Concept please?

**LaB:**

**Creating Windows Server 2012 R2 EC2 instance in Mumbai Region in a specific Availability Zone (ap-south-1a).**

**Instance Type 🡪 t2.micro (free of cost) 🡨 1vCPU + 1GB RAM**

**Verification🡪 Take its remote using RDP**

**How to take remote of Windows Instance?**

CG)P4y2)-oW

# [Leo Titus](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20130%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208519692%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:23 PM: whi determines the region and zones in real time environment . is it the business or engr?

# [Jean Claude MBARAGA](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20145%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209502732%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:30 PM: can i get a litle bit about Accessing AWS cloud platform  
hey,

# [Hardik Vaidya](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20103%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206750220%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:52 PM: So everytime I want to use my server I need to connect?

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20108%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207077900%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:55 PM: How can we display all EC2 instances ?

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20105%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206881292%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:57 PM: no no imean can we connect our windows instance through Mobaxtream instand of downloading the RDP

# [sridhar sontireddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20159%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%2010420236%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:58 PM: sir I have a doubht regarding ec2 and elastic beanstalk.  if I create one elastic beanstalk it uses one ec2, but is it possible to use multiple elastic beanstalk into single ec2 instance

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20146%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209568268%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:59 PM: I have de crypted the password but it is saying login credentials not correct

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20146%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209568268%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:59 PM: UNABLE to go into Windows Machine's remote

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20127%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208323084%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:00 PM: One suggestion please, can we dedicate a 15mins towards the end of session to take questions. We are missing the flow.

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20134%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208781836%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:01 PM: due to VPN is the issue for taking remote of this windows m/c?

**Question Lab:**

1. **Create a Linux Instance (First Instance) in a Region and AZ, use t2.micro instance type, and connect a security group which is open for ping traffic and ssh protocol. So that we can take its remote and we can ping this machine.**
2. **Create another Linux Instance in a same Region and AZ using same kind of configuration, and using this instance take the remote of first instance.**

**Questions:**

1. **How you can differ between edge location and availability zones.**
2. **If you create an instance in One region can we see that instance in another region.**
3. **Can we add more than one EBS volumes with the same EC2 instance.**

**If yes, how?**

1. **Once the instance has been stopped, will AWS charge the amount the for the machine.**
2. **How many machines we can create in a Region by default?**
3. **Define the purpose of EC2 Security Group. Can we launch a VM without Security Group.**
4. **How many maximum number of Security Groups can be added to one instance?**
5. **What are the limitations of AWS Free Tier Account, please write in detail?**
6. **What maximum size of EBS volume under Free Tier can be taken.**
7. **Please find a link on AWS to check the health of existing availability zones at present?**

**Please submit these ans on** [**support@cognixia.com**](mailto:support@cognixia.com)

**Reference Class 2 Q&A 🡪16 Nov Batch**

# [MD RIAZUDDIN](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20152%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209961484%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:15 PM: plz login in a linux system once

Agenda of today’sClass:

EC2

AMI

EBS Volume

Snapshots

Elastic IP Address to an Instance (Fixed IP)

Instance Types

Instance Metadata

Security Groups

EC2 Key Pairs

Network Interfaces

Public and Private IP Addresses

DNS Name of Instance

Bootstrapping

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20119%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207798796%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:14 PM: once we create the onstance with o/s, do we need to buy licence o/s?

# [Leo Titus](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:16 PM: there is a tab to select / choose only free tier

# [Murugesan Sundar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20134%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208781836%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:18 PM: this AMI also called as instance ?

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20132%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208650764%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:28 PM: SO can we say that from this template we can direcatly create instance

LAB:

1. Searching Images
2. Create an AMI from a running instance

Creating a Virtual Machine (Instance) using Linux

Configure this machine as a web server or any other configuration you require.

Verification:Test your machine

Using this running VM/Instance, create AMI.

I want to share this AMI among you people

And you can use the same ami to lauch a VM

1. Sharing the AMI with other AWS accounts
2. Practice LAB: How to move an EC2 instance from one region to another region

I have instance in N.Virginia region and I want to move to Mumbai region.

Step1: Create AMI using the EC2 Instance

Step2: Copy the AMI from one region to another region

Step3: Using transferred AMI, create EC2 Instance.

# [Betty Beemon](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20133%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208716300%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:32 PM: if we are using templete we are calling it standard operating system

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20124%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208126476%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:37 PM: Are these AMI always available with same configurations? Do there ami ID remain the same . e.g if you add anything new

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:40 PM: is this lab is free tier eligible because you told later that we can create ami if we have license only?

# [Betty Beemon](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20133%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208716300%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:43 PM: so the first machine is considered a DEMO when the requirement is added to it.

# [Jean Claude MBARAGA](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20139%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209109516%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:43 PM: Sir, as i asked last time , i did not get the record, the record  and notes?

# [Vivek Tripathy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20138%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209043980%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:48 PM: in private key we need to mention keypair or what?

Nameofthekey.pem 🡨 private key

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20124%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208126476%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:51 PM: Linux or Windows machine : Can the key be the same

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20119%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207798796%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:37 PM: I'm unable to see shared AMI in my AWS login

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:37 PM: This the way to create one new EC2 in new region but is there any way to move an existing EC2 to other region with same connection details?

Security Group

Inbound Rule

By default all traffic is denied for Inbound

Outbound Rule

By default all traffic is allowed for Outbound Rule

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20124%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208126476%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:58 PM: one security group attached to different instances : Can there be different rules for the same security group for different instance.

Sg001🡪 http and https

Sg002 🡪 nfs and san strorages

Sg003 🡪 dns, ftp, tftp

# [Venkata Nimmadala](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:02 PM: what is the diff between http and https...?

http 🡺 80

https = http+ssl🡺443 (secure connection)

**EC2 Key Pairs**:

Public Key 🡪 to encrypt the information (password)

Private Key 🡪 to decrypt the encrypted information

2048 bit key and SSH-2 RSA Algorithm

5000 keys pair per region

.pem format

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20119%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207798796%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:05 PM: how can we import third party provided keypair?

# [Hammad Saleem](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20142%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209306124%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:15 PM: Hi, Why can I not see all the questions peoples are asking ?

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20132%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208650764%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:16 PM: if we want to only disable not to delete how can we do that

You Detach the Interface card.

Or go into OS Windows/Linux 🡪 disable/enable

# [Vivek Tripathy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20147%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209633804%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:21 PM: what about public and private ip address

Purpose of Public IP Add: it is accessible over internet

By default 🡪 instance has one Dynamic Public IP

Purpose of Private IP

To access internally (within AWS VPC)

EIP:

1. Static IP or Fixed IP
2. Max 5 EIP per region can be allotted to your account

How to provide an EIP to the instance?

How to remove and release the EIP?

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20107%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207012364%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:29 PM: But we don't need all our instances to be visible over internet. Can we create an instance which doesn' have a public IP adresse?

# [Mahantesh Gawannavar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20108%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207077900%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:30 PM: to take remote of one instance from other instance then we should use private IP?

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20132%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208650764%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:41 PM: I have used same security group for both linux m/c

# [Dilli Babu](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20116%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207602188%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:41 PM: so we can attach and detach NIC while instnaces are stopped ?  
so we can attach and detach NIC while instnaces are stopped ?

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20107%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207012364%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:41 PM: COuld you please share with us the response of the question you send us last week. Thank you

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:41 PM: How about snapshots

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:41 PM: ?

# [Mahantesh Gawannavar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20108%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207077900%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:41 PM: If AMI is not deleted then is it chargeable?

Yes, because it is using storage space: in free tier 5 GB space is free

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20119%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207798796%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:41 PM: can you pls assit to see share AMI in my Account

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:41 PM: correct

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20119%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207798796%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:42 PM: how can i check my amazon id

# [Venkata Nimmadala](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:42 PM: Instance metadata...?

# [Leo Titus](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:45 PM: how to delete instances

Termination of Instaqance

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:45 PM: Please share the steps for changing the region of an instance in chat?

# [MD RIAZUDDIN](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20122%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207995404%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:45 PM: why  public and private are using 2gather?

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20107%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207012364%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:48 PM: Could you please share with us the answers of the questions you've send us last week

# [MD RIAZUDDIN](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20122%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207995404%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:49 PM: once we get stasic ip so why we need private ip?

Static (Fixed) 🡺 EIP 🡺 Public IP 🡺 accessible over inter

Private IP address is required for internal communication with other EC2 instances

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20132%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208650764%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:49 PM: last sunday session you have given us lab I have created bothbut its not ping from one to another

SG: Allow ICMP traffic to see ping response.

Tomorrows Agenda : 24/11/2019

Presentation + EC2 Document

Bootrstapping

Bastion Host (Jump Servers)

EBS (Elastic Block Storage)

Snapshot (Backup of EC2 Intance) 🡨

Troubleshooting

Instance Metadata

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20107%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207012364%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:55 PM: and for security groups shouldn't we drop them as well?

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20119%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207798796%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:56 PM: is there any difference betweern AMI & instance?

Instance 🡺 Virtual Machine

AMI 🡺 Template of OS

**24 Nov 2019**

Today’s Agenda

EBS Volume

Snapshots

Instance Metadata

DNS Name of Instance

Bootstrapping

Bastion Host/Jump Server 🡨

EBS Volume

Volume Size 4 gb to 16 TB for provisioned IOPS EBS

1 gb to 16 TB for gen purpose EBS

1 gb to 1 TB for Magnetic

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20136%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208912908%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:18 PM: 16 tb for one disk if i add one more disk then can i set other disk also as 16 tb?

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:20 PM: Can we share one volume with two instances?

# no

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:21 PM: But sometimes and for the need of clustering we need to share one volume between instances

# [Sujeeth  Kumar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:22 PM: sir how to Add additional disk for an existing instance!

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20126%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208257548%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:25 PM: what is purpose of snapshot column, while adding volune

# [Mahantesh Gawannavar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20122%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207995404%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:30 PM: How to increase the size of existing volume on an instance?

# [Shanjay kumar  VS](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20112%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207340044%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:31 PM: 19:25: what is the difference root and block device  
19:25: what is the difference root and block device

# [Mahantesh Gawannavar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20122%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207995404%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:31 PM: 2

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20126%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208257548%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:31 PM: one que. for Root device & block device difference

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20126%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208257548%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:32 PM: is it just like primary drive & secondary volume?

# [Sujeeth  Kumar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:33 PM: Is this effective on the fly or a restart of instance is required.

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20102%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206684684%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:33 PM: i understand that all these changes in the volumes can be done whilst it is running ? We dom't need to pause the instance

# [Mahantesh Gawannavar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20122%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207995404%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:42 PM: Storage space for snapshots will be consumed from EBS volume or there will be a reserved space?

Snapshots will use space in S3 (Simple Storage Service 🡨 Object level storage)

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20102%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206684684%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:47 PM: can this snap shot activity be set as an repeat task every 24 hours

Yes we can do, using crond

# [Saravanakumar Natarajan](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20124%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208126476%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:47 PM: snapshot size showing as 15 GB?

# [Shanjay kumar  VS](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20112%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207340044%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:48 PM: snapshot will store in secondary device?

Stored in S3 Storage

# [Sean Craig](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20131%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208585228%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:48 PM: that was not 2 minutes lol

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:48 PM: I saw that we could also take a snap for the whole instance

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20145%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209502732%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:48 PM: Is there any limit on number of volumes we can connect with 1 instance ?

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20136%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208912908%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:51 PM: Means full Instance like VM snapshot ?

Instance Snapshot will cover/include volumes of the instance.

# [MD RIAZUDDIN](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20111%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207274508%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:52 PM: can we creat any rules wich will tack snapshot  automitically?

Lambda Functions

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20102%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206684684%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:54 PM: how far back can this go?

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20136%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208912908%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:55 PM: so how can we take fiull instance snaspshot

What you can do with the snapshots?

**Recover EBS volume from snapshot**

**Using snapshot you can create an AMI for the machine**

# [MD RIAZUDDIN](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20111%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207274508%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:56 PM: if my system get down how to use this snapshot?

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20126%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208257548%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:57 PM: if it is on cloud then why need of this featur?

# [Betty Beemon](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20142%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209306124%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:58 PM: like last recovery...right

How to create a EBS Volume from a snapshot?

Done

# [Pradeesh Chandrasekaran](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20104%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206815756%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:02 PM: using snapshot can we create ebs volume in any region?

No

Ans: first create an image of the instance and then copy to another region.

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20103%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206750220%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:03 PM: if we create anew volume from the snapsot is that space in volume can be used? snapshot already have some dats's, if we create volume what happen to this datas?

# [Murugesan Sundar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20143%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209371660%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:03 PM: storages are clustered ? snaps can see across all zones ?

Snapshots are AZ specific

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20103%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206750220%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:05 PM: so this volume is again a new copy of this snapshot right? the option is that there we can use space if we add

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:05 PM: for the deletion part I didn't understand it very well

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:07 PM: No I'm talking for the theroical part where you explain about snapA and B 6Gb/4Gb

# [Leo Titus](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20130%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208519692%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:07 PM: what if I accidently delete a snapshot ?

# [Betty Beemon](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20142%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209306124%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:07 PM: just wanted to ask if you contact your IT person for the recordings?

Yes ,ASAP

INSTANCE METADATA : 🡪 data/information about the Instance

1. The Instance ID
2. The Instance Type
3. The instance linked security groups
4. Information about AMI used to launch the instance

Lab: How to access/find all these information about the instance, while you are working in.

Done

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20126%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208257548%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:35 PM: how can we get if we have in another instance?

You have to be in that particular instance.

# [Shanjay kumar  VS](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20112%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207340044%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:36 PM: this is standard ip :-169.254.169.254

Yes, default for AWS, to see instance meta-data

# [Dilli Babu](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20114%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207471116%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:36 PM: what is this ip 169.254.169.254 ? can we use this same ip for all instances ?

Yes you will use same ip to see instance metadata.

# [Subbanarasa Puttana](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20123%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208060940%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:38 PM: Could you please explain little more on on URL , why that IP and any service running on that IP ?

DNS Name of an instance

**Public DNS Name:**

ec2-34-207-173-69.compute-1.amazonaws.com

Service : Public IP : Resource : Domain Name

**Private DNS Name:**

ip-172-31-42-99.ec2.internal

Bootstrapping:

Scenario:

Why Bootstrapping?

Generic Situation:

EC2 Instance Launch

Take a remote

Install desired packages/application

Configure some important/required files to support your application/service

VM is ready

To resolve, we use bootstapping

You require

A Script

List of actions/commands to initiate process.

**Shell Script for Linux machine to prepare it as Apache Server**

#!/bin/bash

sudo su -

yum install httpd –y

service httpd start

chkconfig httpd on

echo “My bootstrapped virtual machine is ready” > /var/www/html/index.html

Bastion Host /Jump Server

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20149%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%209764876%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:48 PM: if you do ping to private machine from cmd local machine it will work or not ?

VPC (Virtual Private Cloud)

**IP Addressing (A, B, C, D)**

**Private IPs and Public IPS**

**subnetting**

**CIDR (Classless Inter Domain Routing)**

# [Leo Titus](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20130%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208519692%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:54 PM: do we have any doc that we can go thru before the next class?

Available on LMS

**Agenda of 30th Nov & 1st Dec**

VPC (Virtual Private Cloud)

**IP Addressing (A, B, C, D)**

**Private IPs and Public IPS**

**subnetting**

**CIDR (Classless Inter Domain Routing)**

IP Addresses Type:

1. IPv4 🡨 32 bit
2. IPv6 🡨 128 bit

/8

Class Full IP addresses

172.31.255.16 🡪 B

191.120.155.244 🡪 B

189.100.90.256 🡪 each octet lies between 0-255

120.34.27.0 🡪

220.45.78.90 🡪 C

3.4.5.6 🡪 A

Class C 192.168.100.0 /24 🡪 Subnet Mask

255.255.255.0 🡪 this is default subnet mask of class C

/24 🡺 11111111.11111111.11111111.0000000

What if, we have 192.168.100.0 /24 or 255.255.255.0

What is the NID of above IP range

How Many IPs are Possible in this Range

What is the broadcast IP from this range?

How many IPs can be used from this range?

Class C 192.168.100.0 /24 🡪 255.255.255.0 🡪 N.N.N.H

192.168.100.0-255

192.168.100.0 🡪 NID ID (we use it to identify Network + NIDs are used in Routing)

192.168.100.1

192.168.100.2

192.168.100.3

192.168.100.x

.. Total IPs from this range 256

.. Usable Class C(Class Full) = 256-2 = 254

192.168.100.254

192.168.100.255 Broadcast IP address

Subnetting of Class C (in Standard for Class Full N.N.N.H)

192.168.100.0 /24 🡪 256(Total IPs) 🡪 254 usable IPs 🡪 one Network using /24 (255.255.255.0)

I want to split this network into two network, it is possible or not 🡪 yes, Using subnetting

Subnetting concept

If you have /24, find by calculation, No. of Networks, No.of Totals IPs, No. of Usable IPs

This is a class C Subnet in Bin

therefore

11111111.11111111.11111111.0000000 🡪 Binary (32)

First 3 Octet are fixed Only can make changes in Last octet

This is a class C Subnet in Bin

**If you have /24, find by calculation, No. of Networks, No.of Totals IPs, No. of Usable IPs**

therefore

11111111.11111111.11111111.0000000 🡪 Binary (32)

First 3 Octet are fixed Only can make changes in Last octet

Calculate Number of Networks from /24 notation

Number of Network = 2^(number of 1’s in 4th octet) 2^x

x( no. of 1’s in 4th octet) =0

2^x = 2^0 = 1 (One Network if you use /24 notation)

Number of Hosts/Network

Number of Host/Network = 2^(Number of zeros in 4th Octet) = 2^y

Y (n umber of zeros) =8

Number of hosts/Network = 2^y = 2^8 = 256 Ips addresses

But 2 IPs are excluded ( First One (NID) and Last One ( Broadcast IP)

Valid IPs from /24 network = 254

Range under /24 with 192.168.100.0 /24

192.168.100.0 🡪 **NID ID** (we use it to identify Network + NIDs are used in Routing) 🡨 excluded

192.168.100.1

192.168.100.2

192.168.100.3

192.168.100.x

.. Total IPs from this range 256

.. Usable Class C(Class Full) = 256-2 = 254

192.168.100.254

192.168.100.255🡨 **Broadcast IP address** 🡨 Excluded

**If you have /25, find by calculation, No. of Networks, No.of Totals IPs, No. of Usable IPs**

We have 192.168.100.0 /25

11111111.11111111.11111111.1000000 🡪 25 fixed Bits ( it is for network)

We can’t make changes in first three octets (Fixed), for calculation see only last octet.

Last Octet 1000000

X= 1 (number of 1’s) Y=7 (Number of 0’s)

Number of Network = 2^x = 2^1 = 2🡺 we have two networks using /25 in class C

Number of Hosts/Network = 2^y = 2^7 = 128 🡺 we have 128 Host IPs in each network

256 IPs are divided into 2 networks: each Network has 128 IPs

Now according to the above calculation: split one network into 2 using /25 notation & we have 192.168.100.0 /25, Find Networks, their First IP, Last IP, and usable IPs from each range.

/25 🡺 11111111.11111111.11111111.1000000 🡺 **255.255.255.128**

Network #1 Network # 2

192.168.100.0 192.168.100.128 🡸 NIDs of their ranges

192.168.100.1 192.168.100.129

192.168.100.2 192.168.100.130

192.168.100.3 192.168.100.131

...

…

192.168.100.126 192.168.100.254

192.168.100.127 192.168.100.255 🡸 Broadcast IP

Its mean, out of 128 total IPs, 126 IPs are valid IPs (Usable IPs)

Class – C Subnetting Table (standard Table)

**NIDs HIDs/Network(Total)**

**Slash Notation Subnet Mask No.of Networks Hosts/Network Valid Hosts**

/24 255.255.255.0 1 256 254

/25 255.255.255.128 2 128 126

/26 255.255.255.192 4 64 62

/27 255.255.255.224 8 32 30

/28 255.255.255.240 16 16 14

/29 255.255.255.248 32 8 6

/30 255.255.255.252 64 4 2

Class – B 🡪 /16

N N H H

172.31.0.0 /16 🡺 255.255.0.0

What is Class Less and Class Full

Class full examples

A 🡪 /8 🡪 255.0.0.0

B 🡪 /16 🡪 255.255.0.0

C 🡪 /24 🡪 255.255.255.0

Class less : you can used any notation with any Class IPs address

By default in class B 🡪 172.16.0.0 /16 (class full)

But in class less, you can also use /24 notation with the same NID

172.16.0.0 /24

CIDR 🡪 if you have one NID 192.168.100.0/24

or 172.16.100.0/24

**Requirement** 🡪 I want to split this network into **4** equal network

What notation/subnet mast I should use?

**NIDs HIDs/Network(Total)**

**Slash Notation Subnet Mask No.of Networks Hosts/Network Valid Hosts**

( Subnets)

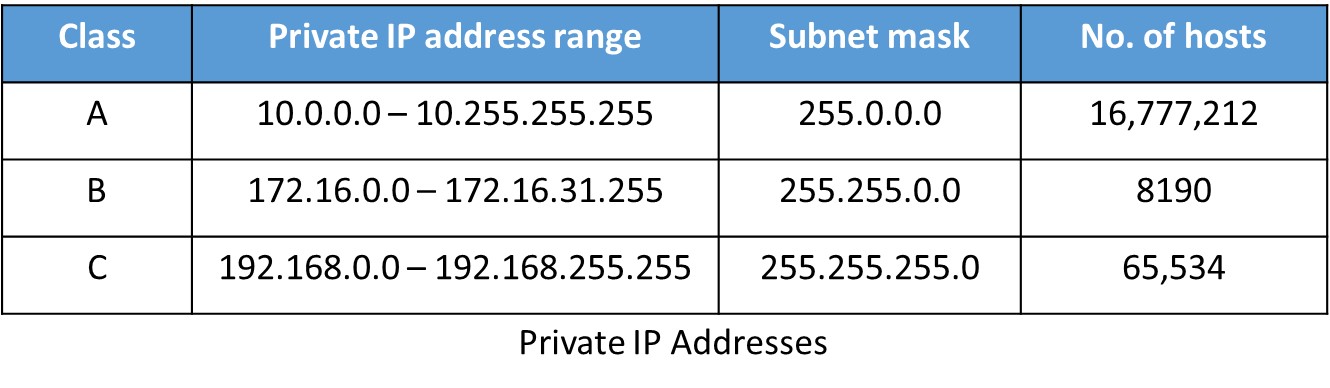
/26 255.255.255.192 4 64 62

Private IP Address and Public IP Addresses

**Public IP** 🡨 Ips using on internet, and we need to purchase.

**Private IPs** 🡨 Only used in our internal Network, to make LAN, this IPs are not accessible over internet.

What are the Private IP ranges from Class A, B and C



172.31.88.11 <- Private IP

3.225.172.106 🡨 Public IP

8:49 PM: can we take remote of EC2 instance using privet IP?

Yes 🡺 using jump server or bastion host

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20121%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207929868%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:51 PM: As per my understanding EIP is static public ip

Yes, It’s a Fixed (non-changeable) Public IP to your machine 🡺 Static IP

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:55 PM: once public ip change (post restart) then Ealsti ip also change or same?

If EIP is not allotted (associated) with machine, machine will get a Public IP address, but if you restart the Instance that Public IP can be changed.

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20111%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207274508%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:56 PM: How to set EIP to instance

**VPC ( Virtual Private Cloud)**

**To create logically Isolated Network**

What you can create in VPC?

Network

Subnets

Route Tables

Internet Gateways

NAT G/w or NAT Instances

Security Groups

Peering between VPC

**Concept of Default Subnets in Region’s AZs:**

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:09 PM: on what basis AZ in a Region?

Region (Location) 🡪 multiple AZs (each AZ is a group of Data Centers)

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20111%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207274508%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:10 PM: So in VPC can we set up subnet as per our need?

Yes, your create number of Subnets in each AZs, depends what network and subnet mask you are using and how many IPs you do require in each Subnet.

A VPC does support from /16 to /28 notation

Components of VPC

VPC Network

Subnets

Route Tables

Internet Gateways

NAT G/w or NAT Instances

**Security Groups** 🡪 Instance Level Firewall

**NACL** (Network Access Control List) 🡪 network level firewall

Peering between VPC

VPN Connection (Virtual Private Network)

# [Jean Claude MBARAGA](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20119%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207798796%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:18 PM: what re the differents between NACL and Security group?

Ans these Question?

What is a subnet?

How to find number of AZs in a particular Region?

What are Public IPs

What are Private IPs

Distinguish between Private and Public IPs

Can my Instance exist without Public IP

Can my Instance exist without Private IP

What is Router? And its function?

L**imitations of Subnets in VPC**

Yes, depends on what subnetmask or slash notation you are using

For example:

/27

How many subnets can be created using /27 🡪

# [Mayank Jain](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20127%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208323084%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:47 PM:   
sir one question   
Does two organization can have the same natwork ...

Same Private IP address ranges can be used, but not Public IPs

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:48 PM: in LMS is little bit different.

# [Mayank Jain](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20127%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208323084%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:48 PM: does if we have a x Compamy there is another company y and we going to merge the both company so does if happen are they ussing same IP range

They must have diff NIDs or IP ranges.

This concept will be covered in VPC Peering.

# [Mayank Jain](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20127%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208323084%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:48 PM: yes sir

**Date: Dec. 01, 2019**

**Task # 1**

Requirements for VPC

Create one VPC with name XXXXXX in a North Viginia Region using 192.168.100.0/24

Create 4 subnets in N.Virginia, each subnet should be in a different AZ

Configure Internet Gateway for my newly created VPC XXXXX

Now, Configure Route Table to provide Internet Traffic to your all 4 Subnets.

Ensure that Route Table is well configured to provide intercommunication among all subnets

Now create, one EC2 Instance in each subnet, and verify that these are communication each other.

Also confirm that on each Instance, we can access Internet.

Steps to create a Simple VPC

NID for VPC 192.168.100.0/24

Create Two Subnet

Subnet1 = 192.168.100.0/25

Subnet2 = 192.168.100.128/25

Internet Gateway 🡪 attach this IGW with the VPC

Route Table (One) 🡪 Configure it 🡪 Association of Subnets with rout table

* Rule 🡪 Connect VPC’s IGW in RT

Create one instance in each subnet, verify communication.

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20122%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207995404%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:36 PM: can we add existed instance in the particular zone?

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:41 PM: The source needs to be a CIDR block or a Security Group ID.

VPC

Subnet

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20129%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208454156%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:50 PM: So we can not connect any other machine aprt these two?

VMs should be in the same VPC

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20129%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208454156%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:51 PM: or wecan

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20128%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208388620%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:51 PM: no my issue is with the rule of ping all

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20122%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207995404%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:51 PM: if we not configure ICMP rule then internet wont work, correct?

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:52 PM: any no. of instances in same VPC and different subnets can communicate with each other. right ?

Yes

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20128%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208388620%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:52 PM: but when we specified icmp for 0.0.0.0/0 shouldn't it ping for all the machines even if they aren't in the same subnets?

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20110%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207208972%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:55 PM:  I have a doubt, if we take the image and put this in another region, will this network configation work on that region or do we need to rebuild this network again?

Clean up Process of VPC

Important:

Delete/terminate all the instances working in this VPC

Delete NAT Instances/Gateway

If you have peering connection, delete them first

After ensuring these tasks, we can delete the VPC.

**Task # 2**

How to create Private subnets in a VPC, and what complications are there, and what is the role of NAT G/W for Private Subnets, how to configure NAT G/W, and how to make entries of NAT G/W in Route Table.

VPC 🡪NID 🡪 172.16.10.0/24

Subnets Current Requirments for subnets = 2

For future use, I want to spare range for two more subnets

/26 🡪 4 Network 🡪 64 (64-2=62usable)

**IN AWS 64 – 5 = 59 usable**

2 for NID & Brdcast, other 3 AWS Reserves

For NAT Devices

**PublicSubnet1 = 172.16.10.0/26 <- NIDs for subnet1**

**PrivateSubnet2 = 172.16.10.64/26 < NIDs for subnet2**

Subnet3 🡪 172.16.10.128/26

Subnet4 🡪 172.16.10.192/26

IGW

Create one more RT

Create some instances in each subnet,

Check the commination

What should I to make Subnets public and Private?

# [Sujeeth  Kumar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20124%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208126476%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:50 PM: But the use case here is not let the Pvt instance to be accessed from internet right!

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:50 PM: Is it possible instnaces in same VPC can't communicate with each other?

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20127%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208323084%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:51 PM: I think both the machine can't communicate each other though they are in the same vpc since we didn't configure RT1 to 2nd subnet?

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20127%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208323084%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:54 PM: My question is if both the subnets are in same vpc and communicate to each other then what was the role of RT in our first scenareo?

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20127%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208323084%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:08 PM: can you pls come again abt nat gateway?

NAT 🡪 NAT G/w sharing/passing internet connection to Private Subnes and their Privates Machines.

NAT G/W behaves like an NAT Instance

Therefor every NAT G/W is mapped with an EIP

Estimated Charges for N.Virginia 🡪 $0.045/hr

What should I do provide Internet connectivity to my private subnets or its VMs?

Step: 1. Create one NAT G/W in a Public Subnet

What is Public Subnet and Private Subnet, how you would distinguish?

What Setting/Configuration makes a subnet public or private?

How to delete NAT G/W?

# [Subbanarasa Reddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20131%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208585228%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:20 PM: Why can't we simily associate IGW , instead of NAT ?

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20127%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208323084%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:22 PM: NAT g/w can be created withing a vpc or across the vps as well?

Within the VPC, and within a Subnet.

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20112%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207340044%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:23 PM: how does NAT recognises which trAFFIC TO SEND TO pRIVATE sUBNET OR pUBLIC SUBNET?

# [Ananth Damishetty](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20121%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207929868%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:24 PM: can EC2 instance within vpc communicate with EC2 instance not with in vpc? i am thinking it can be done using internet gateway, please confirm, if yes can you tell us how to configure it

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20128%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208388620%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:24 PM: Sorry I don't heard the answer of the question why couldn't we simply use IGW instead of NATGW?

IGW 🡪 it provides Internet connectivity to VPC (a Route table)

NAT G/w

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20110%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207208972%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:25 PM: can NAT G/W access the Public RT? if possible then do we need to configure another RT?

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20122%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207995404%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:25 PM: yes one is wan port and remainig act as a switch port

Projects: 1. use Slide # 18

Projects: 1. use Slide # 19

**How to delete NAT G/W?**

What did you learn today?

VPC

Subnets

IGW

RT

NAT

VPC 🡪 now you can create/manage VPC Infra

7th & 8th Dec

VPC Peering

ELB

Autoscaling

Some Case Studies

VPC Peering

Network IDs

VPC1 Default 172.31.0.0/16

VPC2 CognixiaDemoVPC 172.16.10.0/24

Creating VPC Peering Connection

**Peering Connection ID :** pcx-0ae492762b0bc45e7

Now, finally configure main or default route-table of their respective VPCs

Configuring Router Table 1 from VPC1 Default

How we can verify the connectivity?

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20108%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207077900%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:28 PM: But isn't the rule saying ping from all is the one that helped us ping it

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20106%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206946828%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:29 PM: can we try from different regions? this was created in same regions.. so can we try?

# [Subbanarasa Reddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20121%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207929868%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:30 PM: Could you please provide me realtime scanrio for VPC peering ?

Calofonia Network1

Mumbai Network2

Elastic Load Balancing (AWS ELB)

Create ELB

We require two EC2 instances,

These instances has some application/Website Running on these

Apply ELB

Configure ELB

Verify the ELB

EC2 Machine we have, we configure it as web server, so that we can access it on http

Create an AMI from the EC2 instance

Using the AMI Create another EC2 Instance in another AZ

Then apply ELB

# [Subbanarasa Reddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20121%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207929868%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:16 PM: if in one instance is having multiple services running, do we need to configure all correct ?

# [sridhar sontireddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:29 PM: ELB applied to two EC2 instances. one EC2  instance is stopped and another EC2 instance is active and running. suppose due to maintenance second EC2 instance  
also stopped then is there any chance to start first EC2 instance automatically.

# [MD RIAZUDDIN](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20107%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207012364%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:51 PM: for how we get data if ihave?

# [Subbanarasa Reddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20121%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207929868%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:58 PM: As part of Auto scalling, to create a new instance will it take existing Image along with application ?

AMI 🡺

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20123%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208060940%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:58 PM: My question was in case of machine crash it will setup a new machine but in case of maintenance suppose we shutdown one machine then also it will create a new machine or not?

# [Subbanarasa Reddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20121%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207929868%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:59 PM: I mean do we need do something for this or just enable auto scalling

# [sridhar sontireddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:01 PM: if new instance launched then public ip of newly launched instance will change or not?

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20123%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208060940%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:06 PM: If we want to keep then what is the use of auto scaling here, without autoscaling also we can keep fixed machines?

LAB1: Auto Scaling

We want to keep fix number of machines for one use?

Fixed Number = 2

Pre-Requisite: 🡪 You need The AMI of instance

Step 1: Creating Launch Configuration 🡨 done

Step 2: Configuring AutoScaling Group

Components of AutoScaling Group:

Groups 🡪 Logical Units of Instances

Launch Configuration

Scaling Plans

Manual Scaling Plan

Maintain Current Instance Level

Time and Date Based Scaling

Demand Based Scaling

ELB Lab:

You have one machine, you want to apply AS, we have a condition that if the cpu utilization of the machine goes/touches 70%, then automatically one more VM should be created.

Min =1

Max =4

Condition 🡺 CPU Utilization => 70% 🡺 Action🡺 add one more VM

Qus:

Create two VMs (Private) each in a diff subnet (diff AZ), now both VMs are identical,

Now I want to access this application over internet.

ELB

# [Subbanarasa Reddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20121%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207929868%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:10 PM: one ELB on Public Internet with two VMs'

# [Subbanarasa Reddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20121%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207929868%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:10 PM: another ELB on Private with Two VMs

ELBs

Internet Facing

Internal

# [Manivannan Sampath](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20107%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207012364%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:19 PM: when we will cover Lamda expressions

Lambda Function

IAM Principals

Three Kind of Principals

Root User

IAM Users

Role

User 🡪 set of permissions, limited permissions, with specific permissions

Group 🡪

Role 🡪

Eg. EC2 Instance S3 Storage

🡨-------------------------------------------------------------------------------------🡪

Role

Role for EC2 Server which as permission to work with S3 Storage

User

Group

Role

Permissions

Readymade

Some to be created

Lab 1: How to create a User with administrative level of permission so that you can access your AWS account instead using root account.

You logged in as an administrator

Lab2: Now as an administrator user, we want to create a user with EC2 Read only permissions.

Later on, we need to confirm that user has only EC2 access permission.

Next Week Agenda

1. IAM

Users

Groups

Permission

How to write permissions

Role

How to attach and create roles

Scenarios based labs

1. Simple Storage Service
2. Serverless Services (Lambda Functions)

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20104%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206815756%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:07 PM: yes still there, some kind sound like audio jack is lose or if we put mobile near by this kind of sound will come please check

IAM can be controlled/accessed using

1. Management console
2. AWS CLI
3. AWS SDK

Principals:

1. Root User
2. Users
3. Roles

Root User:

How to create users?

How to provide permission to a IAM User?

How to create a Group?

# [Pradeesh Chandrasekaran](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20105%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206881292%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:17 PM: we had created User with administrative level of permission last class

Lab : Create a user with only EC2 Read access?

Role:

Default:

EC2 instance cant access S3 service (Storage) 🡪

Ans : EC2 service or Instance can not access S3 storage by default

Qus: What action is required to provide access to EC2 instance for S3 storage?

Ans🡪 Create Role for Ec2 Service with S3 access permission, later on attach the Role with EC2 instance. Now, the EC2 instance can access S3 storage.

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20133%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208716300%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:30 PM: so we need to create a role for EC2 to access S3? For every instance which involves storage data

Lab:

Qus: What action is required to provide access to EC2 instance for S3 storage?

Ans🡪 Create Role for Ec2 Service with S3 access permission, later on attach the Role with EC2 instance. Now, the EC2 instance can access S3 storage.

Pre Requisite of this lab:

Ec2 Instance

S3 Bucket with some data

Try to transfer the data between EC2 and S3 Storage. (Failed)

To resolve, we must have a role for EC2 Service with S3 fullaccess

Lab: How to see Policy Code (JSON)?

Lab: How to create new policy if you have a proper policy code in JSON?

{

"Version": "2012-10-17",

"Statement": [

{

"Action": "ec2:\*",

"Effect": "Allow",

"Resource": "\*"

},

{

"Effect": "Allow",

"Action": "elasticloadbalancing:\*",

"Resource": "\*"

},

{

"Effect": "Allow",

"Action": "cloudwatch:\*",

"Resource": "\*"

},

{

"Effect": "Allow",

"Action": "autoscaling:\*",

"Resource": "\*"

},

{

"Effect": "Allow",

"Action": "iam:CreateServiceLinkedRole",

"Resource": "\*",

"Condition": {

"StringEquals": {

"iam:AWSServiceName": [

"autoscaling.amazonaws.com",

"ec2scheduled.amazonaws.com",

"elasticloadbalancing.amazonaws.com",

"spot.amazonaws.com",

"spotfleet.amazonaws.com",

"transitgateway.amazonaws.com"

]

}

}

}

]

}

S3 (Simple Storage Service)

Object Level of Storage

Bucket is folder in S3, its name is globally unique, max 100 buckets are allowed.

In Free Tier max 5 GB is Free.

Imp: if you create further folder within the bucket, it is known as folder.

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20133%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208716300%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:42 PM: if instance is in mumbai: S3 is accesible from north virginia?

Yes

Lab 1

**How to upload data from your Local Machine to S3 Storage in a specific bucket, using AWS Management Console?**

**I’m upload a website template or some files (objects)**

Lab 2

How to upload data from your Local Machine to S3 Storage in a specific bucket, using AWS CLI?

Lab 3:

What should I do, in order to share bucket content (objects)?

Steps 🡪 Change the bucket policy/permission

Step2🡪 you made the content/object public,

Step 3: use url of object to access over internet.

Important: Files in S3, known as Objects

Object is a File in S3

Object Key 🡪 File Name is called Object Key

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20126%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208257548%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:50 PM: can we upload data to S3 using locall machine command prompt ?

*Yes,*

Step1. Install AWS CLI for windows (.msi)

Step2: Login as AWS user which has permission to access s3

Step 3: copy data from your machine to s3

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20126%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208257548%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:33 PM: there are 2 version os aws CLI V1 and V2. which one should i download for tomorrrow session ?

Lab: How to publish a static website using S3 storage?

1. Step1. 🡪 Create a bucket, (imp🡨 bucket name should be the name of domain you purchased) eg: myexample.com (domain name) 🡪 you will use the same domain name in S3 bucket creation.
2. Step2: 🡪 Upload Static website content, into the bucket
3. Step3: 🡪 Bucket should be public (remove private restrictions from bucket)
4. Step4🡪 Make the content of the bucket, public
5. Step5 🡪 Make bucket Static Web site enabled.
6. Step6 🡪 Share Static Web site Url
7. … mapping of Statice Web Site URL with domain name using Route53

Versioning in S3:

Demonstrating Versioning🡪

15th Dec,

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20126%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208257548%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:50 PM: can we upload data to S3 using locall machine command prompt ?

*Yes,*

Step1. Install AWS CLI for windows (.msi)

Step2: Login as AWS user which has permission to access s3

Step 3: copy data from your machine to s3

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20126%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208257548%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:33 PM: there are 2 version os aws CLI V1 and V2. which one should i download for tomorrrow session ?

**Date: 15th Dec**

**Agenda**

* Using AWS CLI
* Data Transfer between EC2 and S3 Bucket
* S3 Storage Class
* S3 Cross Region Replication
* Lambda Function
* Route53
  + Domain Hosting & Configuring Resource Record
* AWS ElasticBeanstalk

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20104%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206815756%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:01 PM: Good Evening Sir,  
sorry for yesterday disconnecion, i had gone through yesterday video, yesterdays disturbance is there in that entire video

Aws CLI

Ways

1. You can use AWS CLI using EC2 Linux Instance
2. You can install AWS CLI software in your local machine

You can install AWS CLI software in your local machine

Data Transfer between EC2 and S3 Bucket

Information required

1. Policy Access 🡨 Role attached with EC2
2. If you are using AWS IAM user for this purpose, you require username and its Secret Keys etc. (Programmatic Access for this user)

Source Location of your data

S3://cognixia14dec.com/

Destination Location where you want to store the data

**54.89.87.161:///home/ec2-user/**

Policy Access required to your EC2 Instance 🡨 Role attached with EC2

-Creating a Role for EC2 Service with S3 Full Access permission

-Attach the role with EC2 Instance

-Take the remote of EC2 Instance using mobax

**aws s3 sync s3://cognixia14dec.com/ 54.89.87.161:///home/ec2-user/**

aws s3 sync s3://14decdemo.com [18.130.255.121@/home/ec2-user](mailto:18.130.255.121@/home/ec2-user)

* S3 Storage Class

Type of Storage on the basis of usage

Type:

**Standard 🡨 Expensive 🡨 for frequently (default)**

Standard-IA 🡨 Less Expensive (for Infrequent Access data)

Glacier 🡨 Cheap (low cost storage) 🡨 Archival of data

# [Sujeeth  Kumar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20108%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207077900%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:50 PM: Can what do you suggest for log file back ups!

How to change the class of the object?

From Standard to Standard IA

What should I do in order to retrieve data from Glacier Storage Class?

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20109%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207143436%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:09 PM: yes makes sense . we can change policy and create a lifecycle as per our project requirements it automatically change the storage class and save money we put on data storage over S3

* S3 Cross Region Replication

S3 CRR (Cross region replication)

Source Target

Bucket-A (us-east-1) Bucket-B(ap-south-1)

Data ===========================🡺 Data

Data 🡸=========================🡺 Data

Why CRR?

Lab1:

Let say, we have two buckets in two diff regions, we want to establish unidirectional CRR between them?

CRR Requires

1. Two Buckes( Source and Destination) should be in a diff region
2. Both Buckets should be versioning enabled
3. S3 must have permission to replicate objects

Step1. Buckets created in diff regions

Step2. Enable Versioning on both Buckets

Step3: your user must have permission over S3

S3 service 🡨 permission required

Exercise:

Lets say we have two buckets in AWS, Ist is in N.Virginia and 2nd is in Ohio region. We need CRR in bi-directional mode. How to achieve this?

Verify the listed jobs:

What if your buckets has some data before CRR, will it be syncd automatically?

What if you delete some objects, once the CRR is enabled?

# [MD RIAZUDDIN](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20106%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206946828%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Me - Private](about:%3cA%20HREF=%22%3conRightClick%3eeCMD_DoAttendeeContextMenu%206619148%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:44 PM: if i delet any file from destinition so it will delet from sorce?

No

* **Lambda Function**

Execution of program or codes in a serverless manner.

Lambda provides compute resource for the code

vCPU & RAM (Memory)

RAM ^^^ =🡺 vCPU ^^^

RAM (128 MB – 3008MB)

Time for execution of the program/code (min 100ms – 5 Min)

1 sec = 1000 ms

Charges/Prices for each 100ms

If your program takes 2 minutes for its execution, and AWS (Region) charges $0.0001 for each 100 ms. Calculate the total cost, you need to pay for one time execution for that code?

2min = 120 sec = 120000 ms

120000 ms /100 ms = 1200 units

Amount = 0.0001 x 1200 = $ 0.12 for one time execution

1000 times in month =

# [Jean Claude Mbaraga](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20103%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206750220%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:57 PM: Can repeat a litlle bit about almbda function

**Scenario: you want to take automated snapshots of EBS volume of all Instances from all regions in your account.**

**Our company has 10 rgions and in each region we have 2 VPCs and in each VPC we have 5 Instance.**

**= 100 total instance.**

**Lambda is a Service, which runs code in a serverless manner.**

**Lab: you want to take automated snapshots of EBS volume of all Instances from all regions in your account.**

**Lambda service requires access over EC2 service**

**Step1: We have to create a Role for Lambda to access EC2 Service with set of permissions.**

**Important: I want to provide limited access to Lambda for EC2 service:**

**CreateSnapshot**

**DeleteSnapshot**

**Tag Creation**

**Modification in snapshot**

**Permission Code:**

{

"Version": "2012-10-17",

"Statement": [

{

"Effect": "Allow",

"Action": [

"logs:\*"

],

"Resource": "arn:aws:logs:\*:\*:\*"

},

{

"Effect": "Allow",

"Action": "ec2:Describe\*",

"Resource": "\*"

},

{

"Effect": "Allow",

"Action": [

"ec2:CreateSnapshot",

"ec2:DeleteSnapshot",

"ec2:CreateTags",

"ec2:ModifySnapshotAttribute",

"ec2:ResetSnapshotAttribute"

],

"Resource": [

"\*"

]

}

]

}

**Program:**

# Backup all in-use volumes in all regions

import boto3

def lambda\_handler(event, context):

ec2 = boto3.client('ec2')

# Get list of regions

regions = ec2.describe\_regions().get('Regions',[] )

# Iterate over regions

for region in regions:

print "Checking region %s " % region['RegionName']

reg=region['RegionName']

# Connect to region

ec2 = boto3.client('ec2', region\_name=reg)

# Get all in-use volumes in all regions

result = ec2.describe\_volumes( Filters=[{'Name': 'status', 'Values': ['in-use']}])

for volume in result['Volumes']:

print "Backing up %s in %s" % (volume['VolumeId'], volume['AvailabilityZone'])

# Create snapshot

result = ec2.create\_snapshot(VolumeId=volume['VolumeId'],Description='Created by Lambda backup function ebs-snapshots')

# Get snapshot resource

ec2resource = boto3.resource('ec2', region\_name=reg)

snapshot = ec2resource.Snapshot(result['SnapshotId'])

volumename = 'N/A'

# Find name tag for volume if it exists

if 'Tags' in volume:

for tags in volume['Tags']:

if tags["Key"] == 'Name':

volumename = tags["Value"]

# Add volume name to snapshot for easier identification

snapshot.create\_tags(Tags=[{'Key': 'Name','Value': volumename}])

**Todays:**

**AWS CLI**

**S3**

**CRR**

**Versioning**

**Storage Class**

**Change of Storage Class for an object**

**Lambda**

**Policy Creation for the ROLE**

**Assignment 🡪 1**

**Next week Agenda**

**Route53**

**Elastic Beanstalk**

**RDS**

**CloudWatch**

**CloudFront**

**HomeWork:**

1. What is AWS?
2. Why AWS?
3. What includes in AWS Cloud Global Infrastructure?
4. What you get in AWS Free Tier Account?
5. What is Xeon?
6. What is Hypervisor?
7. Difference between Type-1 and Type2 Hypervisor
8. How do you see Flexibility in AWS?
9. How would you explain Availability Zone?
10. What are AWS Regions?
11. What are Edge Locations?
12. Name a few AWS Services
13. What if you exceed limits of AWS Free Tier Account?
14. What is AWS Management Console?
15. What is an EC2 Instance?
16. Name the Main three components of EC2 Instance
17. Which Protocol and Port Number is used to take remote of Linux Machine?
18. Which Protocol and Port Number is used to take remote of Windows Machine?
19. **Scenario:** We have an Instance which is connected with an EBS volume, now we don’t need that Instance but, we want to keep the volume. How to accomplish the task?
20. What users of AWS users can do now they couldn’t before on physical environment? 🡨
21. How to connect and activate additional EBS volume with running instance?
22. How to increase the size of existing EBS volume which is connected with the instance?
23. How we can move an Instance from one region to another, procedure details required?
24. If you create an AMI from EC2 Instance what information or component details that AMI contains?
25. Once the Instance is launched and running, now we need more compute and memory resource for the application running on the instance. If there is any method to upgrade vCPU numbers and RAM of the instance.
26. Which is not an offered model by cloud technologies eg. PaaS, SaaS, YaaS, IaaS.
27. How many max number of rules can be added in a Security Group?
28. How many max number of Security Groups can be created in a AWS Region?
29. How many max number of EC2 Instances can be launched by default in an AWS Region?
30. How many max number of Security Groups can be added/attached with one EC2 instance?
31. How many max number of EIP addresses can be allocated to one Region?
32. What is the use of EIP and why it is required?
33. Combination of Public and Private cloud can be termed as \_\_\_\_\_\_\_\_\_\_\_
34. When will you incur cost with an Elastic IP address?
    1. When an EIP is allocated to resource or
    2. When the EIP is not attached to any Instance
35. What is AWS CLI, what does it mean?
36. Define Metadata of EC2 Instance, how to access metadata of the Instance?
37. What is the function of Security Group?
38. What is the difference between General Purpose and Provisioned IOPs in EBS Volumes?
39. What is the relation between AWS Regions and AWS Availability Zones?
40. Can we encrypt EBS Volume?
41. How to add an additional SG in a running instance?

# [Mahantesh Gawannavar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20107%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207012364%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:38 PM: I missed two sessions and I will go through the recordings. If I come up with any questions then could you please provide your contact details where I should contact?

**Agenda**

**Route53**

**Elastic Beanstalk**

**RDS**

**CloudWatch**

**CloudFront**

**Route53**

1. **Domain Name Registration**
2. **Route Internet Traffic**
3. **Health Check of Resource**

**DNS Records**

**A Host Name(Domain Name) to IP Address**

**CNAME Canonical Name or Alias name of Domain**

**NAME Server (NS)**

**MX Mail Exchange Records (Mail Servers)**

**SOA Start of Authority**

**PTR IP Address is mapped with Host Name**

# [Leo Titus](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20119%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207798796%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:16 PM: we won't be able to relsove/reach the webpage if route53 is not there

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:16 PM: So can we say its a only domain or its like hosted services like go daddy

# [Jean Claude Mbaraga](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20106%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206946828%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:17 PM: what is different  between DNS Record A and PTR?

**A-- > Domain name = IP address**

**PTR 🡪 IP address = Domain Name**

**Scenario :🡺**

**Pre-Requisite**

**You must have Web server Ready with you.**

**You must have a domain name (🡪 dt.tk)**

**Step 1. Create EC2 Instance and configure it as web server.**

**Step 2. Register a Domain Name**

**Step 3. User Route53 to configure Hosted Zone**

**Create Resource Records**

**Verify the website is working**

**Charges of AWS Route53 services:**

# [Arunjith S](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to Presenter Only):

7:25 PM: why we are no doing domain reg in route53 ?

**AWS name Servers**

**ns-953.awsdns-55.net.**

**ns-1679.awsdns-17.co.uk.**

**ns-432.awsdns-54.com.**

**ns-1357.awsdns-41.org**

**A 🡪 Record maps domain name with IP address of Web Server**

# [Subbanarasa Reddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20121%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207929868%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:44 PM: if multiple people uses the same domain name , what will happen ?

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20116%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207602188%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:44 PM: why we've to copy this info?

# [Subbanarasa Reddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20121%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207929868%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:46 PM: if i configure same domain name which you have done

# [Arunjith S](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to Presenter Only):

8:24 PM: Can you come again why we are added name servers into freenom account ?

Scenario:

Lets you have website stored in bucket, and the website is static, you don’t have any specific EC2 instance for the website. We want to publish static website using S3 bucket and later on, need to use endpoint of bucket in our Route53 record A.

Requirement for the Lab:

You must have a static website configure using S3 bucket

You must have domain name

You will configure a hosted zone to publish website which is available on S3 bucket instead of EC2 instance (we do not require a web server)

# [Arunjith S](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to Presenter Only):

8:36 PM: In real time scenario where we required ec2 to publish web site ?

# [Arunjith S](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to Presenter Only):

8:38 PM: what basis we call it as static and dynamic ?

What is the difference between Static and Dynamic Web Site?

Minimum steps to deploy an application using AWS Infra

1. Creating EC2 Instance
2. Configuring SG
3. Prepare machine for your application : Installations and configuration
4. Copying the code from your local server or s3 to EC2 instance to run
5. If you want to apply ELB and Auto Scaling, you have to create an AMI from the EC2 instance
6. Now configure ELB and AutoScaling
7. If RDS or database features are required, in case you have to create RDS too.
8. May be you are using an EIP for the EC2 Instance

# [Amey Ablankar](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:03 PM: So here we simply install the tomcat application directly without configuring any instances or any m/c

# [Arunjith S](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to Presenter Only):

9:20 PM: Can i access ec2 ?

# [Arunjith S](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to Presenter Only):

9:20 PM: i dont have the key pair

# [Leo Titus](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20119%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207798796%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:21 PM: I have migration call to jump on in 8 minutes. I will follow the rest in recording. Thank you , have a good night

# [Betty Beemon](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20134%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208781836%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:21 PM: If elastic beanstalk creates the platform for you although there are many different platform why would we use the others? is the elastic beanstalk limited in space?

# [Arunjith S](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to Presenter Only):

9:21 PM: ahhh ok

# [Betty Beemon](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20134%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208781836%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:23 PM: I believe, you stated tyo use beamstalk it is not a free service correct?

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20104%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206815756%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:40 PM: so with the help of the template can we create instance, VPC or SG ? or only the infra?

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20104%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%206815756%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:45 PM: so let me clear, if we have or do not have code we can create the infra...correct

CloudFormation

Creating Infra using YAML or JSON Code

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20114%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207471116%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:47 PM: if you have code you can create infra. an if you have infra you can create code

yes

Cloud Former Tool

If you have infra (ready), and you want to create a code for CloudFormation design tool to create a similar infra either in diff region or diff account.

Scenario: Launching a application on AWS using Elastic Beanstalk

1. You must have an application in zipped format
2. You have to use ELB in it
3. Use Auto scaling with fixed number of machines, lets take 2 numbers
4. Delpoy application using elastic beanstalk
5. Once deployment is confirmed
6. Use Route53 service to map domain name with the endpoint of ElasticBeanstalk
7. Verify the job.

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20130%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208519692%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:27 PM: i have question, can we pause or teminate the process in middle of creating the EBS process?

# [Vishnu Ck](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20130%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208519692%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:33 PM: why zip file need to upload in the EBS? why can't we upload the .java or any other .files?

# [Arunjith S](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20125%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208192012%3c/onRightClick%3e%22%3e%3c/A%3e) (to Presenter Only):

9:29 PM: please share couple of application in zipped format which have

Documents for the 16th Nov Batch.

Remaining Topics:

Agenda

**RDS**

**CloudFront**

**CloudFormation**

**CloudFormer**

**Elastic Transcoder**

**EFS <-**

**CloudWatch**

**RDS**

LAB:

# [Sean Craig](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20116%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207602188%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:03 PM: Is it possible to have a one on one sessions? If so, please email me the cost

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20118%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207733260%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:04 PM: I have missed last weekends both the classes. May I know what all topics I missed?

Details OF RDS

DB instance identifier databasedemo

Master User Name 🡪 admin

Password 🡪 user12345

Database Name 🡪 sample

Endpoint of RDS 🡪 databasedemo.cc9c4kxu54fp.us-east-1.rds.amazonaws.com

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20114%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207471116%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:28 PM: insatlled successfully on my linux machine as well. Thanks

Good

Important Points related to CloudFront:

1. Origin Server/Origin 🡪 S3/http server
2. Custom Origin 🡪

**Elastic Transcoder**

**EFS <- Elastic File Sharing**

**CloudWatch 🡨 Monitoring Services**

**Docker and Container**

**ECS**

**EKS**

**Intro About AWS Config & Audit,**

**Questions for the exam with ans**

**4th & 5th Jan 2020**

**Elastic Transcoder**

**EFS <- Elastic File Sharing**

**CloudWatch 🡨 Monitoring Services**

Overview Docker & Container

ECS

VPC🡺 [vpc-79384703](https://console.aws.amazon.com/vpc/home?region=us-east-1#vpcs:filter=vpc-79384703)

Subnet1 AZ1 Instance1

[subnet-72e9c52e](https://console.aws.amazon.com/vpc/home?region=us-east-1#subnets:filter=subnet-72e9c52e) us-east-1a i-0e7646759c99fd718

Subnet2 AZ2 Instance2

[subnet-88153ba6](https://console.aws.amazon.com/vpc/home?region=us-east-1#subnets:filter=subnet-88153ba6) us-east-1c i-018ece2777301d180

Creating EFS Storage

Mount it with Instance1 and Instance2

VPC 🡪

Instance Subnet AZ

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20118%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207733260%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:40 PM: Common storage is EFS but what we call to the individual storage?

# [Subbanarasa Reddy](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20120%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207864332%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:40 PM: if both instances are working on same file, will it handle sysnchronization by EFS ?

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20111%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207274508%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:41 PM: Can we limit the storage space? like 100GB or 200GB

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20111%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207274508%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:44 PM: Can we create EFS between regions as well or is available only between AZ?

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20111%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207274508%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:05 PM: Can you please share some projects to do also

yes

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20118%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207733260%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:09 PM: Also pls assist with some certifications questions

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20123%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208060940%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:42 PM: In VPC peering  would the EFS be shared?

# [Sampad Panigrahi](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20118%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207733260%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:47 PM: Request you to share all the slides which you used during this entire days?

yes

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:47 PM: only the two instances on the private subnets should see the efs storage?

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20119%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207798796%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:47 PM: little bit difficult

# [Ranjeev Batra](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20123%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%208060940%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:53 PM: So this EFs takes data from a live website ?

# [Arunjith S](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20113%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207405580%3c/onRightClick%3e%22%3e%3c/A%3e) (to Presenter Only):

7:54 PM: simple we can its a NAS box from AWS

Elastic Transcoder:

Pipeline

Source File ==============================================Target File (Converted File)

S3 Bucket(input) S3 Bucket (Output)

[cognixia.source.15dec](https://s3.console.aws.amazon.com/s3/) cognixia.destination.15dec2019

mp4 (Video) mp3(Audio)

Pricing of Elastic Transcoder:

10 min of ET service in NV will approx. cost you = 10 x $0.00003 = $0.0003

CloudWatch

1. Basic Monitoring

Its Free

Polls in every 5 Min

Work on 10 basic Metric

5 GB of data ingestion

5 GB of Data Storage

1. Detailed Monitoring

Its not free

Chargeable per instance per month

Polls per minute

CloudWatch works with EC2 Instances, EBS Volumes, RDS and ELB. Etc

Create an alarm if you cross a particular limit in $s, lets say $2.

# [YASSIR ABID](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20117%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207667724%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:01 PM: is this alarm free even if we let it configured without deleting it?

# [vishal agnihotri](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20119%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207798796%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

9:07 PM: witout .pem key can create EC2 instance?

Docker and Container

Demo:

Docker and Container using Linux Environment

**We are using EC2 Instance with Docker on AWS**

What Container needs to run my application?

OS: Ubuntu

Service to run website: apache

Configure apache to run web application

# [Arunjith S](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20111%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207274508%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

7:32 PM: my question is whats the advantage of Docker  when compare to VM ?

EC2Co-EcsEl-1OI99DON17Y9P-2100335002.us-east-1.elb.amazonaws.com

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20110%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207208972%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:09 PM: Amazon ECS Sample App  
Congratulations!  
Your application is now running on a container in Amazon ECS.

# [Hitesh Garg](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%20110%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%207208972%3c/onRightClick%3e%22%3e%3c/A%3e) (to [Organizer(s) Only](about:%3cA%20HREF=%22%3conLeftClick%3eeCMD_SetChatTo%2032765%3c/onLeftClick%3e%3conRightClick%3eeCMD_DoAttendeeContextMenu%202147287052%3c/onRightClick%3e%22%3e%3c/A%3e)):

8:05 PM: what is the recommended approach to run containers by EC2 instance or by ECS service ?

Using ECS Service, we can use both EC2 as well as Fargate

Links for Projects

Links for ECS and EKS