**Day 1: Agenda**

**1**. Amazon Cloud Basics - Cover EC2 and Logging into EC2 Setup

**2**. Lab Exercise – Use case#1

* Create EC2 Instance
* How to connect to EC2 using SSH
  + - * **AWS**: Amazon Web Services is a secure cloud computing platform, offers compute power, database storage, and other IT resources through a cloud services platform via internet with pay-as-you-go pricing.
      * **Cloud Computing**: Cloud computing provides a simple way to access servers, storage, databases and a broad set of application services over the internet.
        + AWS provides services to support any cloud workload:

**Deployment & Administration**

                                                |

**Application Services**

**|**

**Compute**  --  **Storage**  --    **Database**

                                                |

**Networking**

                                                |

**AWS Global Infrastructure**

* + - * **What is T2 Instance:** T2 instances are used for those workloads which requires a lower performance hardware specifications. T2 instances generally come with limited number of CPU's and with limited memory.
      * **Why do we use SSH to EC2 Instances?**

It is an interface between a user and the instance, which is also a Secure Shell which provides users with a secure, encrypted mechanism to log into systems and transfer files.

* + - * **what is the difference between EC2 and S3?**

An EC2 instance is like a virtual machine running on whatever OS/Software we install. It includes a web server running PHP code and database server.

Amazon S3 is just a storage service, used to store large binary files. We don’t need to run an EC2 instance, we can also store stacks of data here.

**Use Case:1**

* Login to the console and launch a **t2.micro** instance.
  + - Select the free tier eligible **Linux flavors**.
    - Select an existing or create a new **Key Pair & Download Key Pair** (**.pem file**) and Launch Instance.
* Connect to **EC2** using **SSH**.
  + - Download **Putty** and **Puttygen**
      * <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>
    - Load the **.pem** file in putty generator and save private key as **.ppk** file.
    - Open Putty and SSH with **ubuntu@PublicDNS or ubuntu@Public IP** (from EC2 console).
      * Open **SSH/Auth** and browse the **.ppk file** and open. (Connected to Linux VM through Putty)
    - **Switch to root user and send me all screen shots.**
    - **Please read about S3 and Glacier for next class.**