**Cognito User pools**

* A user pool is a user directory in Amazon cognito, with this users can sigin into your web/mobile application through AWS cognito
* User pools provide
  + sign up & sign in services
  + Customizable web ui to sign in users
  + Social sign in
  + MFA
* Then from application code the user profile can be accessed
  + <https://djangostars.com/blog/bootstrap-django-app-with-cognito/> for the django sample
  + <https://www.baeldung.com/spring-security-oauth-cognito> for the java example
  + <https://docs.aws.amazon.com/prescriptive-guidance/latest/patterns/access-aws-services-from-an-asp-net-core-app-using-amazon-cognito-identity-pools.html> for the .net core
  + <https://medium.com/@prasadjay/amazon-cognito-user-pools-in-nodejs-as-fast-as-possible-22d586c5c8ec> for the node js application

**AWS Directory Service**

* This is AWS Managed service for Microsoft Active Directory
* We can spin up Domain Controllers managed by AWS and sync/import active directory from on-premises into AWS
* These AD can be used from on-premises as well as for applications is AWS
  + Directory service can be integrated with Workspaces (Virtual Desktop as a Service) and AWS rds SQL Server and other in house applications

**AWS CloudTrail**

* Exercise :
  + Open AWS Console and Navigate to Cloud trail and view dashboard and also look into event history
* All the AWS Actions will be added to the event history, we can use this to audit the activities performed on your account by various users.