Cloud Application Development

Week 2

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Ques. As a final output of the project, the you are expected to upload your designed applications on public cloud (AWS/Azure) and hence need to analyze and explain which application platform will you be following, and why?

- Architectural Styles
  The architectural style which this application will be using is SISD (Single instruction Single data). As our application will be using a client-server architecture where the client will send the data and the server will work on that single data. The client-server architecture uses SISD as it involves the processing of single data by a single instruction at a time by either the client or the server.

- Cloud that will be used
  The file transfer web application will be deployed on the Virtual Private Cloud of AWS. I will be using AWS because AWS can be cost-effective for certain workloads also, I have never worked on azure so it will be better for me to work on AWS.

  The AWS services required for deploying the application will be: -

  1) AWS EC2: - Amazon EC2 (Elastic cloud computing) is a service provided by amazon which provides you with the computing environment. This VM will act as a Web Server on which the application will be hosted.
  2) Amazon S3: - Amazon S3 (Simple storage service) is object storage provided by amazon. This object storage will hold the data which is to be transferred.
  3) Amazon MongoDB Atlas: -The MongoDB Atlas is a database service provided by AWS. This service will be used for storing the credentials of the user.

4) AWS ELB: - Amazon ELB (Elastic Load Balancers) is a service provided by Amazon which automatically distributes incoming application traffic in multiple VMs