**ASSIGNMENT #0**

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| **No.** | **Distributed System** | **Technology/Component** | **Example** |
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| 1. | Data Intensive Science | Cloud Platform | EC2, Azure, Private Cloud. |
|  |  | Programming model | PigLatin, MapReduce |
|  |  | Bioinformatics Algorithm | BLAST |
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| 2. | Data Centers | Consistency and replication, MOM, Fault tolerance | GFS, BigTable |
|  |  |  | Google, Amazon, Oracle |
| 3. | Simulation on Supercomputers | Multicore,  Parallel Programming and process communication  check pointing | MPI |
| 4. | Peer to Peer Systems | Distributed Hash Tables,  Peer to Peer trust reputation, Overlay Networks | BitTorrent, Facebook  Facebook |
| 5. | Clusters | Workflow,  Distributed File System, Parallel programming and process communication | Pegasus,  MPI |
| 6. | Grids | Workflow  Job scheduling, HTC, Energy Efficiency  MOM, Resource discovery, Security  OGSA  Web 2.0 | Pegasus  Condor  Globus  Web services  HubZero |
| 7. | Clouds | Hypervisors/Paravirtualization  DFS  Programming model  Cloud Platform  Cloud Storage  Web Services  Cluster  Linux based private cloud | Xen  GFS  Chubby  Mapreduce- Hadoop, Twister/ PigLatin  EC2, Azure  S3, Azure, Big Table  Amazon, SOAP  Iaas Cloud –Nimbus  Eucalyptus |
| 8. | Internet of Things | Discovery/ Metadata  Naming | UDDI  URI |
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