

UNIT-III

Distributed File Systems: Introduction – File Models – File accessing, sharing and caching – File Replication – Atomic transactions Case Study HADOOP. : Resource and process management – Task assignment approach – Load balancing approach – Load sharing approach

UNIT – IV

Cloud Computing, Roots of Cloud Computing, Layers and Types of Clouds, Desired Features of a Cloud, Cloud Infrastructure Management, Infrastructure as a Service, Hardware as a service, platform as a Service, Software as a service, Challenges and Risks. Migrating into a Cloud:-Introduction, Broad Approaches to Migrating into the Cloud, The Seven-Step Model of Migration into a Cloud

Textbook(s):

- * Distributed Systems Concepts and Design, G Coulouris, J Dollimore and T Kindberg, Fourth Edition, Pearson
- * R. Buyya, CLOUD COMPUTING Principles and Paradigms, Willey
- * Distributed Systems, S.Ghosh, Chapman & Hall/CRC, Taylor & Francis Group, 2010.

References:

- * Distributed Systems – Principles and Paradigms, A.S. Tanenbaum and M.V. Steen, Pearson Education.
- * Distributed Computing, Principles, Algorithms and Systems, Ajay D. Kshemakalyani and Mukesh Singhal, Cambridge, rp 2010.
- * Gerard Tel, "Introduction to Distributed algorithms", Cambridge University Press, USA, 2000.