Chapter 10 Alternative Blockchains

- 1. Kadena
  - Based on Scalable BFT Consensus Protocol
  - Pact is the the Turing incomplete language used in it
  - Key rotation for Security
  - Symmetric on chain encryption
  - Private Blockchain using incremental hashing
- 2. Ripple
  - Currency exchange & RTGS System
  - Native Currency is XRP
  - Composed of user and validator nodes
  - Consensus by seeking verification & acceptance from validating servers in an iterative manner till adequate no of votes are achieved
- 3. Rootstock
  - It is smart contract platform based on concept such as
    - Drive Chains
      - Where control on unlocking the locked bitcoins in main chain is given to miners who can vote to when to unlock them
    - Two Way Pegging
      - A way by which value can be transferred b/w two blockchains
    - Side chains
      - Runs parallel to main blockchain and allows transfer of value between them
- 4. Storj
  - Decentralised & Distributed Storage
  - Based on distributed hash tables
  - Files are dissected into pieces ; Sharding
  - Maidsafe is a similar system as storj with new concepts such as churning & opportunistic caching
- 5. Tezos
  - It is a Self amending cryptographic ledger
  - It also allows consensus on how the protocol & nodes are evolved with time
  - Based on seed protocol ; allows stakeholders on network to approve any changes to the protocol
- 6. Quorum
  - Enhanced version of Ethereum blockchain
  - Consensus based on majority voting & time based mechanisms
  - Permissions at node level is governed by smart contracts