CLOUD SERVICES

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Department of Computer Applications

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Cloud Application Design

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Security Design Patterns

1. Defence in Depth
    - Defence should be layered so that attacker has to overcome multiple defences before gaining access to important resources
2. Honeypots
    - Honeypot is a decoy computer system that appears attractive to the attacker
    - While the attacker attacking the honeypot they can be observed by security personnel and trap them
    - In cloud, a honeypot virtual machine can be deployed to monitor the any suspicious attempt.

3. Sandboxes
   - A software is executed in a restricted environment inside the operating system in which it is running
   - An attacker who breaks into the software does not have access to the facilities provided by the operating system.
4. Network Patterns
   - VM Isolation – Encrypt the traffic between VMs
     - Tighten the security on the ports that accept traffic,
   - Subnet isolation- physically separate individual and VLAN system
   - Common management Database - required where applications migrate from one server to the other

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