

1) Definitions

Resource – Provisioning :Identify adequate resources for a given workload based on QOS requirements described by consumers.

Resource Discovery: Identifies suitable physical resources in which the virtual machines are to be created matching user's request.

Resource Selection: Selecting the most appropriate resource from the practical set of resources (multi-criteria decision-making problem).

availability, trust, cost, responsiveness, reliability, and capability effects resource selection.

Virtual Resource Pools Integration

XenServer Pool: Allows resource provisioning over private Cloud.

VMWare Pool: Allows resource provisioning over private Cloud.

Amazon EC2 Pool: Allows resource provisioning over public Cloud.

Resource Scheduling : Mapping and execution consumer workloads on available VMs based on selected resources through provisioning.

Resource Monitoring : Referred to monitoring the performance of both physical and virtual infrastructure during the operation

Policy: principles guiding decisions

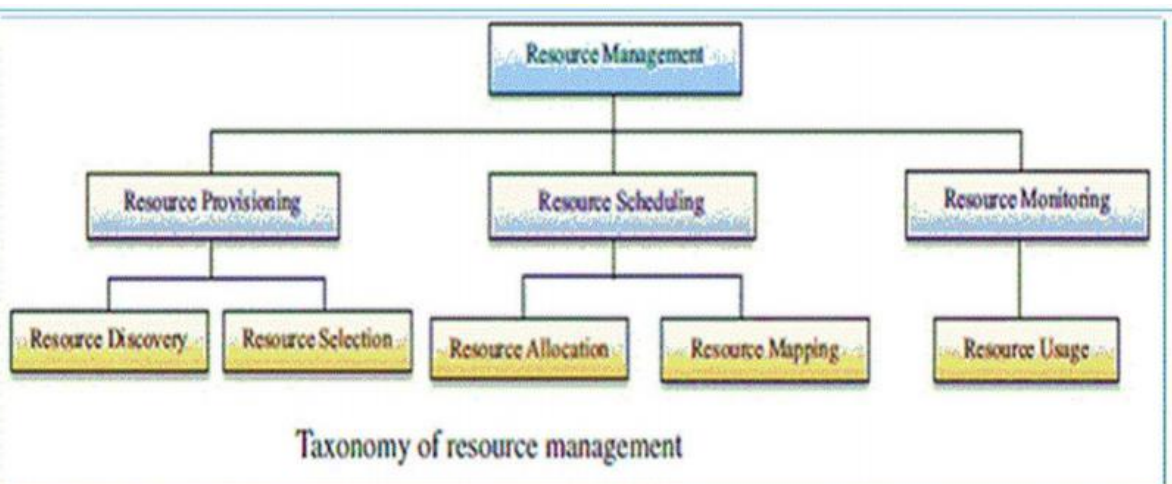
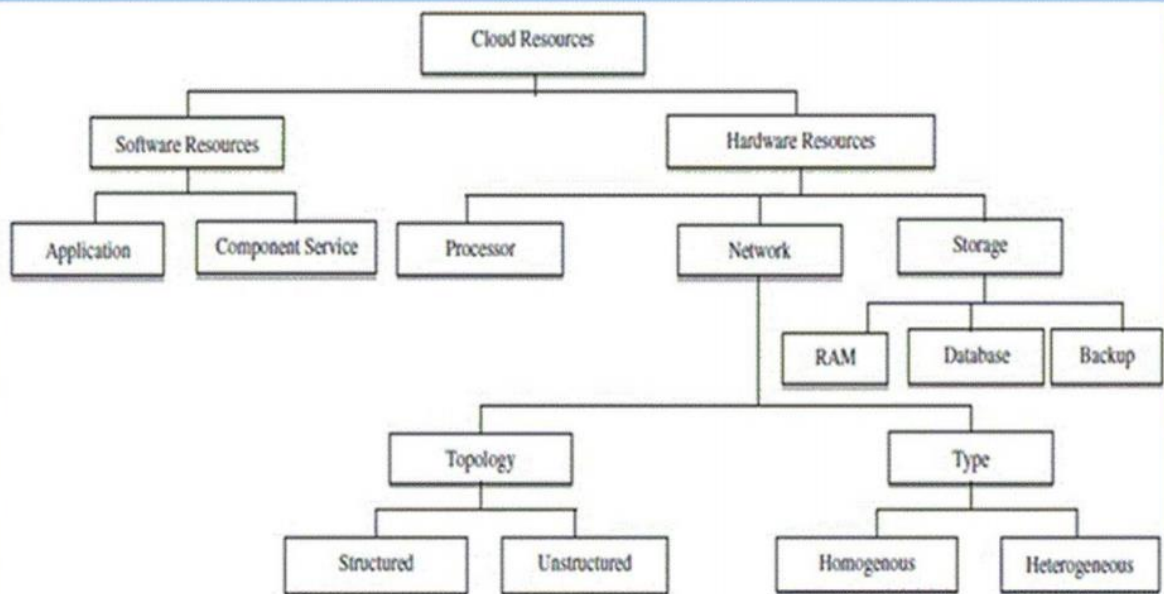
Mechanisms: the mean to implement policies

Allocation: is the assignation or reservation of resources at the time of request.

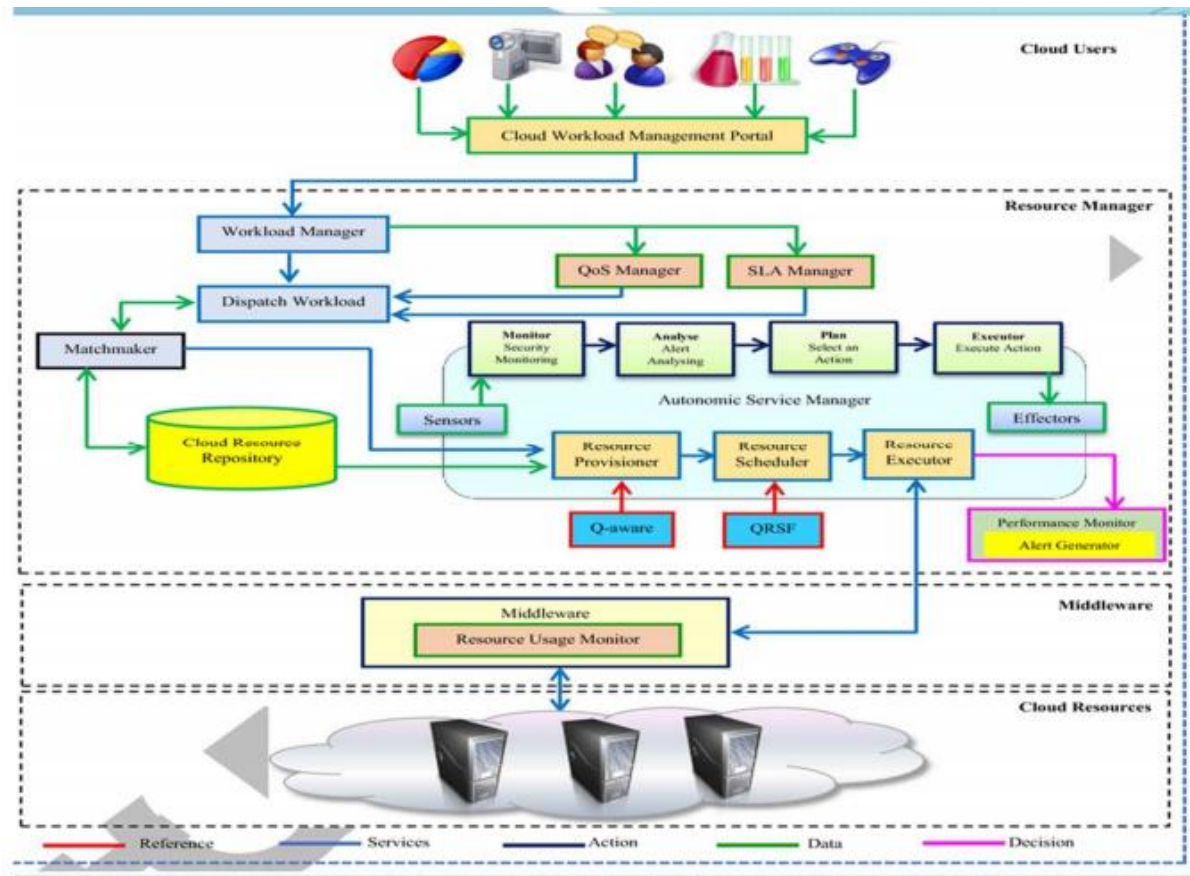
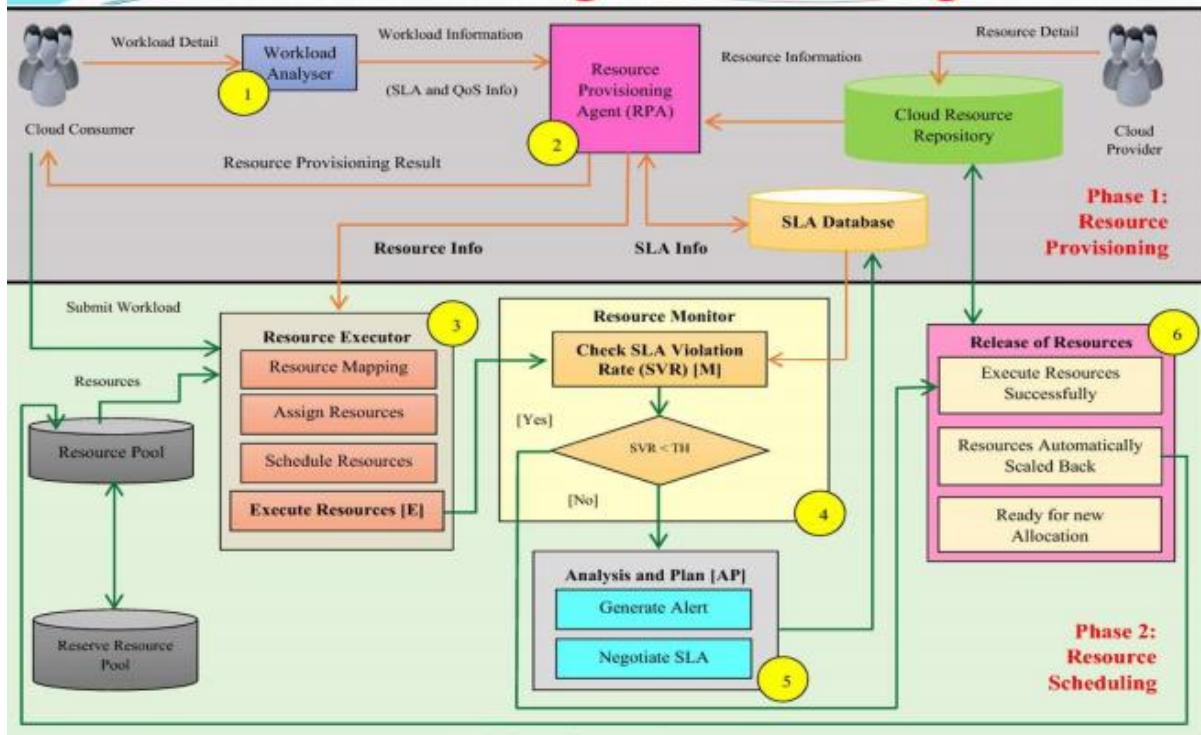
Scheduling: is a request for allocation of resources at a specific time or time period.

2)Diagrams

Resources In Cloud



Resource Provisioning & Scheduling in Cloud



3)IMP SLIDES

SCHEDULING STEPS

1.Resource Discovering and Filtering:

Data centre Broker discovers the resources present in the network system and collects status information related to them.

2. Resource Selection:

Target resource is selected based on certain parameters of task and resource.

3. Task Submission :

Task is submitted to resource selected.