SNS COLLEGE OF ENGINEERING

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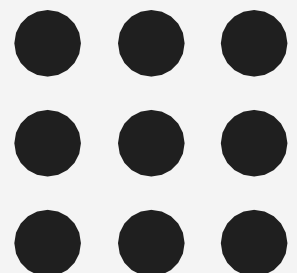**Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai**

Department of Information Technology

Course Name – CS8791 Cloud Computing

IV Year / VII Semester

Unit 3 – Cloud Architecture, Services and Storage

Topic 7 – Software as a Service

SaaS

- Software delivery model that provides access to applications through the Internet as a Web-based service.

- In SaaS model you are provided with access to application software often referred to as "on-demand software".

- No need to worry about the installation, setup and running of the application.

- Service provider will do that for you.

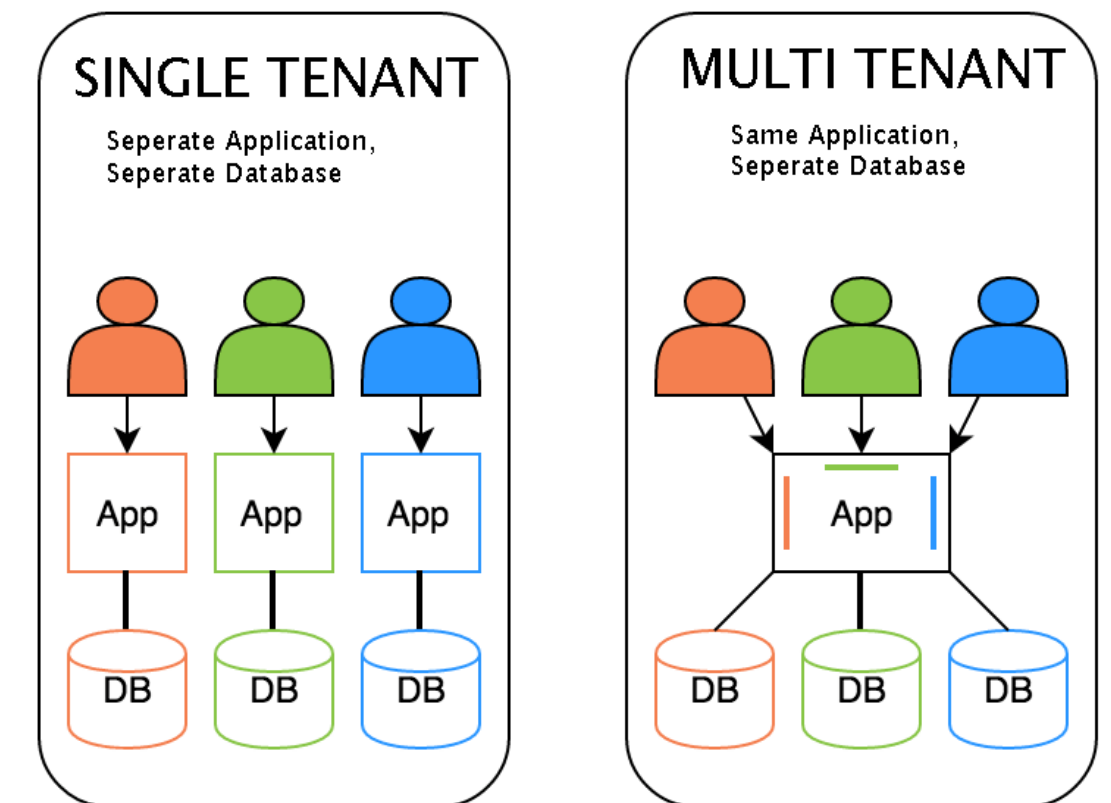- You just have to pay and use it through some client.

SaaS

- On the provider side, the specific details and features of each customer's application are maintained in the infrastructure and made available on demand.

- The SaaS model is appealing for applications serving a wide range of users and that can be adapted to specific needs with little further customization.

- This requirement characterizes SaaS as a "one-to-many" software delivery model, whereby an application is shared across multiple users.

- The SaaS model provides software applications as a service.

- As a result, on the customer side, there is no upfront investment in servers or software licensing.

SaaS

- On the provider side, costs are kept rather low, compared with conventional hosting of user applications.

- Customer data is stored in the cloud that is either vendor proprietary or publicly hosted to support PaaS and IaaS.

- SaaS applications are naturally multitenant.

- It allows providers to centralize and sustain the effort of managing large
hardware infrastructures,
maintaining and upgrading applications transparently to the users, and optimizing resources by sharing the costs among the large user base.

SINGLE TENANT
Seperate Application,
Seperate Database

App App App
DB DB DB

MULTI TENANT
Same Application,
Seperate Database

App
DB DB DB

SaaS

- Initially the SaaS model was of interest only for lead users and early adopters. The benefits delivered at that stage were the following:

  ▢ Software cost reduction and total cost of ownership (TCO) were paramount

  ▢ Service-level improvements

  ▢ Rapid implementation

  ▢ Standalone and configurable applications

  ▢ Rudimentary application and data integration

  ▢ Subscription and pay-as-you-go (PAYG) pricing
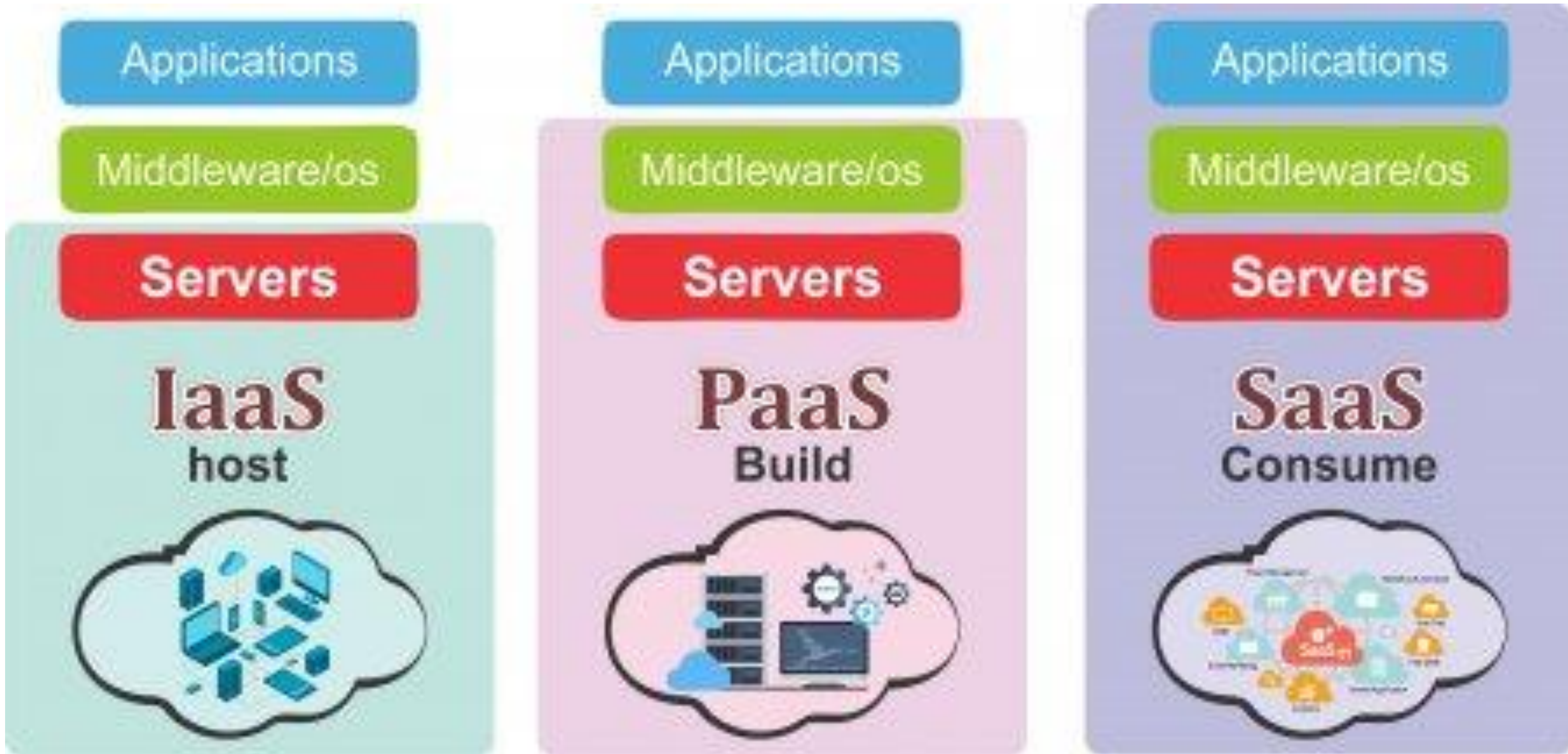
SaaS

- Software-as-a-Service applications can serve different needs. CRM, ERP, and social networking applications are definitely the most popular ones.

- SalesForce.com is probably the most successful and popular example of a CRM service

- Another important class of popular SaaS applications comprises social networking applications such as Facebook and professional networking sites such as LinkedIn.

- Office automation applications are also an important representative for SaaS applications: Google Documents and Zoho Office.

Examples:
- Google Apps, Microsoft Office 365.

SaaS

THANK YOU