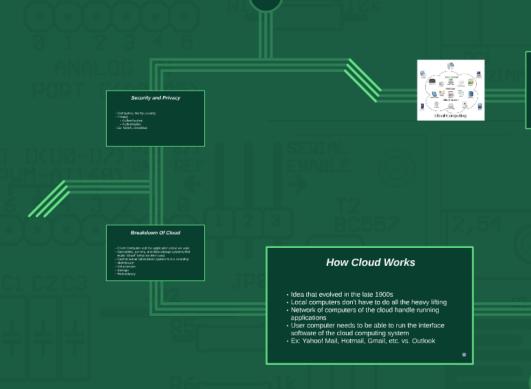
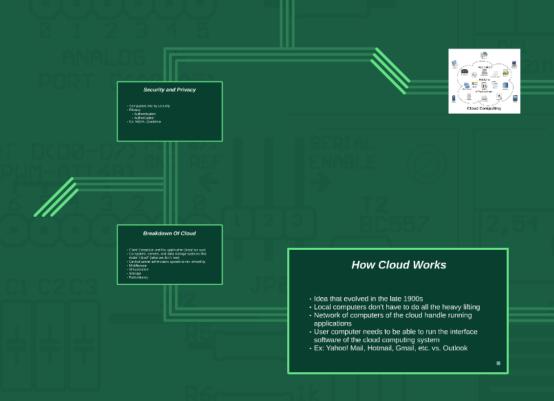
# Cloud Computing



### Cloud Computing Architecture



# Cloud Computing



### Cloud Computing Architecture

- Front end, back end, cloud based delivery, and a network.
  - rety, and a network.

    It end (dient) interacts with storage (
    age (public, private, community)
    S
- PaaS - IaaS

### Saas

- Software as a Service
   Common delivery model for many business
  and feature.
- Putential to reduce IT costs by outsourchardware and software maintenance to SanS provider

### Conclusion

 Overall, cloud computing to the next big thing. Wasy have web applications are use already apply cold computing. It greatly recurses the creas of Phosphather and IT for but historic. Cloud computing has various options use well measured it is very feeding.

### References

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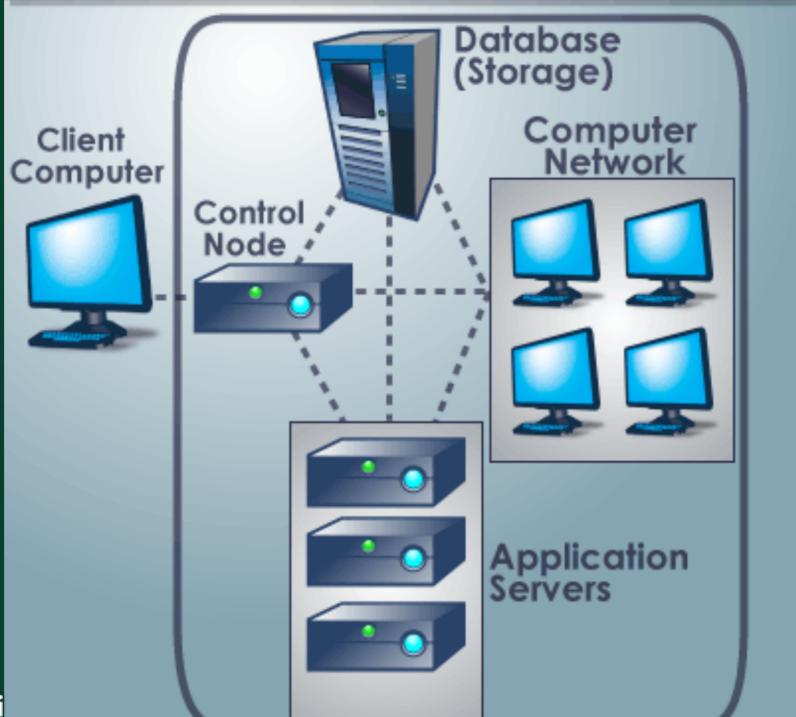


## **How Cloud Works**

- Idea that evolved in the late 1900s
- Local computers don't have to do all the heavy lifting
- Network of computers of the cloud handle running applications
- User computer needs to be able to run the interface software of the cloud computing system
- Ex: Yahoo! Mail, Hotmail, Gmail, etc. vs. Outlook









# Breakdown Of Cloud

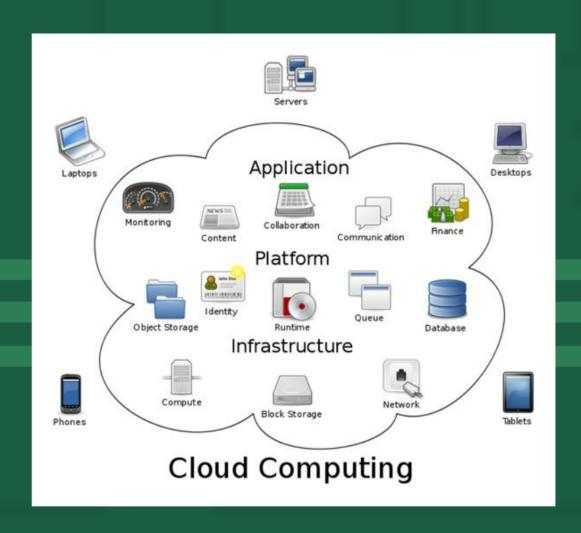
- Client Computer and the application (what we see)
- Computers, servers, and data storage systems that make "cloud" (what we don't see)
- Central server administers system to run smoothly.
- Middleware
- Virtualization
- Storage
- Redundancy



# Security and Privacy

- Companies live by security
- Privacy
  - Authentication
  - Authorization
- Ex: NOVA, OneDrive

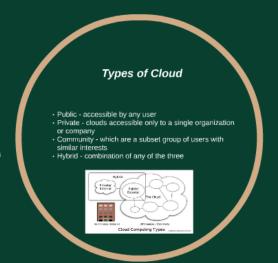






# Cloud Computing Architecture

- Front end, back end, cloud based delivery, and a network.
- Front end (client) interacts with storage
- Storage (public, private, community)
- SaaS
- DaaS
- PaaS
- laaS

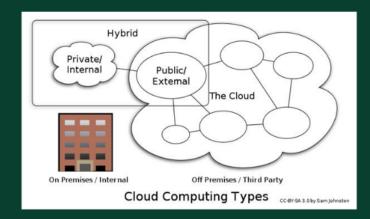




# ae

### Types of Cloud

- Public accessible by any user
- Private clouds accessible only to a single organization or company
- Community which are a subset group of users with similar interests
- Hybrid combination of any of the three





### SaaS

- Software as a Service
- Common delivery model for many business applications
- Potential to reduce IT costs by outsourcing hardware and software maintenance to the SaaS provider



### PaaS

- Platform as a Service
- Allows for the developing, running, and managing web applications without the difficulty of building and maintaining the infrastructure associated with developing an application.
- Can be a cloud service where the user controls the software and the provider controls the IT side, or can be installed in the companies infrastructure as a service and managed by companies IT.



### laaS

- Infrastructure as a Service
- Offer computers, physical or virtual machines, and other resources
- Taking the physical hardware and going completely virtual
- Eliminates the need for data center, heating, cooling, and IT maintenance



# Conclusion

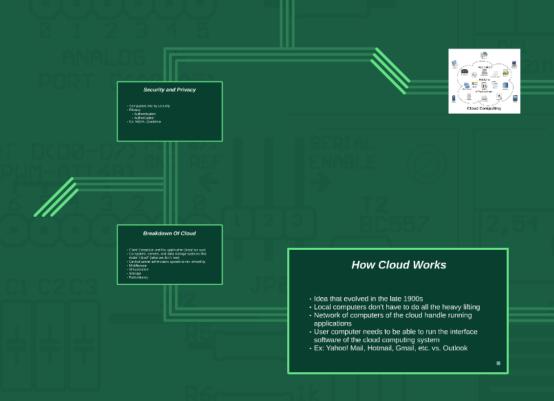
 Overall, cloud computing is the next big thing. Many free web applications we use already apply cloud computing. It greatly reduces the costs of infrastructure and IT for businesses.
 Cloud computing has various options as well meaning it is very flexible.

### References

- http://computer.howstuffworks.com/cloud-computing/ cloud-computing.htm
- http://www.nist.gov/itl/cloud/upload/
   NIST\_SP-500-291\_Version-2\_2013\_June18\_FINAL.pdf
- http://www.brighthub.com/environment/green-computing/ articles/127086.aspx
- <a href="http://www.computerworld.com/article/2550226/data-center/the-real-costs-of-cloud-computing.html">http://www.computerworld.com/article/2550226/data-center/the-real-costs-of-cloud-computing.html</a>
- <a href="http://i.dell.com/sites/content/business/solutions/power/en/Documents/ps1q12-20120209-sherbak.pdf">http://i.dell.com/sites/content/business/solutions/power/en/Documents/ps1q12-20120209-sherbak.pdf</a>



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