INF3190 Group lecture
Lecture #11

Jan Anders Bremer

UiO - IFI

12.04.2013

Contact information

Phone: 91125994
Mail: janabr@ifi.uio.no
IRC: janabr at irc.ifi.uio.no (currently in #ping.uio.no and #cyb, but you can always /msg me)
Feel free to send questions, suggestions and feedback.

Contents

- L5 - application layer

Domain Name System

- Lookup of IPs associated with a given name.
- Hierarchical
- Uses UDP - reduced overhead, more than 512 bytes: uses TCP.
- One DNS-entry can have multiple entries and one IP can be a part of multiple DNS-entries

SMTP and MIME

- SMTP - Simple Mail Transfer Protocol
- Used for communication between mail-servers and clients
- Text-based protocol
- MIME - Multipurpose Internet Mail Extensions
- Allows transfer of non-text content in e-mails
- Base64, 7bit, 8bit
- Used elsewhere as well

WAP - Wireless Application Protocol

- Used for mobile devices
- Constrained by screen size and hardware
- Content served must focus on usability.

concerns while streaming media (music/video)

- Bandwidth
- Delay
- Jitter