## Managing Messaging Systems – Class Assignments

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### Part I

Class Main Assignments

### Part 1: Class Main Assignments

- Main Assignments Overview
- Email RFCs List and Hierarchy In org-mode
- Script Based Mail Sending (mailInjector)
- Script Based Mail Processing (mailBot)
- Script Based Mail Retrieval
- Script Based Full Mail Cycle
- Mail System Transition Execution Plan (Overview)

## Main Assignments Overview

- Email RFCs List and Hierarchy In org-mode
- Script Based Mail Sending (mailInjector)
- Script Based Mail Processing (mailBot)
- Script Based Mail Retrieval
- Script Based Full Mail Cycle
- Mail System Transition Considerations

## Email RFCs List and Hierarchy In org-mode

- Understand what RFCs are. How the RFC process works
- How different Mail RFCs relate to each other and the totality?
- Briefly look at some RFCs
- Locate the latest version of RFCs
- Learn what RFCs are authoritative on what ports
- Learn how org-mode can be used to express hierarchies
- Learn how org-mode can express cross references
- Become more comfortable with emacs



# Script Based Mail Sending (mailInjector)

- Learn how qmail-inject takes care of mail origination
- Learn how swaks and ssmtp can be used for mail submission
- Walk-through smtp submission traces
- Learn how emacs can be used as a bash IDE
- Become more proficient in Bash scripting
- Become more proficient in emacs
- Learn how Blee Panels can be used for script management
- Improve the script's design to have multiple submission methods and profiles

## Script Based Mail Processing (mailBot)

- Learn about structure of mail message and mime
- Learn reformail and nmh to process headers and dissect bodies
- Learn how emacs can be used as a bash IDE
- Become more proficient in Bash scripting
- Become more proficient in emacs
- Learn how Blee Panels can be used for script management
- Extract a pdf body part



## Script Based Mail Retrieval

- Learn about script oriented imap mail retrieval with offlineimap
- Walk through the mailbox format
- Learn how emacs can be used as a bash IDE
- Become more proficient in Bash scripting
- Become more proficient in emacs
- Learn how Blee Panels can be used for script management



## Script Based Full Mail Cycle

- Work On Your Own Full Mail Processing Loop:
  - Use mailInjector.sh to send out a pdf attachment to your ByStar account.
  - Use offlineimap to automatically retrieve that message.
  - Use mailBot.sh to dissect the pdf message into its original pdf file.
  - Output a command that would have printed that pdf file.
  - Make it such that all of the above can be automated repeatedly.

## Mail System Transition Considerations

The deliverables are two papers that provide a high level description of steps involved in and an **execution plan** for:

- Transition From Some-Mail-Server To ByStar-Mail-Server
- Transition From ByStar-Mail-Server To Cloud Office-365 Mail Service

The papers can be in any format and at any length. The two papers can refer to one another. No need to duplicate.

### The goals are:

- not to have any mail service interruptions
- not to have any lost email
- minimize possibility of any bounced messages

