

Qmail Prerequisites Preparations

Daemontools, Djbdns

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Part I

ByStar Reference Model Review

Part 1: ByStar Reference Model Review

- 1 Philosophy And Values – Tangible Authonomy and Tangible Privacy
- 2 ByStar Platform (BxP)
- 3 Concept Of Autonomous and Controlled By* Information and Service Objects (BxIso)
- 4 Services Realization Of BxIsos
- 5 Email Service Realization Of BxIsos

Philosophy And Values – Tangible Authonomy and Tangible Privacy

- Reading Assignment Feedback (<http://www.by-star.net>)
- Review the concept of “Conviviality”
- Review the concept of Resonsibility Of Professions – Though To Swallow?

ByStar Platform (BxP)

- The VM that we have been using is the ByStar Platform (BxP)
- It (the unified software) Can Be Configued To Become:
 - BUE: A Light User Environment (NATed) – For TouchPads, Phones
 - A Heavy Intranet Cluster User Environment (NATed) – For Desktops, LapTops
 - A Complete Internet Service Environment – For Servers, VMs, Private and Public Clouds

Consider Getopt

- Each Of Us Will Be Registered As An Autonomous BxIsso
- BxIsso is manifested as a “Unix Account”
- BxPs are Containers Of bxSOs
- Each Autonomous BxIsso can create additional controlled BxIsos
- BxIsso’s can exist in parallel in multiple BxPs and be synchronized. At anytime the BxIsso that is Internet Visible is call the “Principal BxIsso”
- Different services within BxIsos can be mapped to domains at will

Services Realization Of BxIsos

- A service realization of a BxIso is manifested as a directory within the Unix Account
- Examples: BxIso/iso/sr/apache2/web BxIso/iso/sr/apache2/gitweb
BxIso/iso/sr/qmail/

Email Service Realization Of BxIsos

Within BxIsos/iso/sr/qmail/ are:

- Controls of local-parts
- Maildirs for final deliveries
- Mapping Of local-parts to maildirs
- Mail retrieval control information

Part II

Daemontools Live Walkthrough

Part 2: Daemontools Live Walkthrough

6 Daemontools Blee Panel

7 File Variables As The Most Simple Control Method

Daemontools Blee Panel

- Software-Service Continuum - Daemontools
- Review The Model
- Review
- Let's Walk Through <https://cr.yp.to/daemontools.html>

File Variables As The Most Simple Control Method

- `cd /etc/service/dnscache`
- Start From Run and Walkthrough
- Visit `env`

Part III

dnscache and tinydns Overview

Part 3: dnscache and tinydns Overview

8 Dnscache Overview

9 Tinydns Overview

Dnscache Overview

- Control Through daemontools
- /etc/resolv.conf
- Local Resolutions Bypass

Tinydns Overview

- Control Through daemontools
- Dynamic Addition Of DNS records through scripting

Part IV

Class Activities

- 10 Emacs As A System Administration Tool
- 11 Bash Scripting – The IIM Framework Oriented Approach
 - Framework Oriented IIM Bash Scripting
 - Adding An iimPanel to Our iimBash Examples

Framework Oriented IIM Bash Scripting

- `cp /opt/public/osmt/bin/startlimGeneric.sh ~/isit442/lastName-iim.sh`
- Add VisExample
- Add Describe
- Add Functionality
- Add EH_problem
- Invoke Through Emacs Client

Adding An iimPanel to Our iimBash Examples

- `cd ~/isit442`
- `cp /opt/public/osmt/bin/startlimBash.org Panel.org`
- F11-F11
- Let's Customize

Part V

Assignments

12 Assignments

Assignments

- Read through “man dnscache” and “man tinydns”
- Page through more “Life With Qmail”. Focus on the qmail specific parts – message queueing and delivery.
- Experiment more with iimBash and iimPanels