BC-isit442 Class Overview And Structure

Document #PLPC-120048 Version 0.1 January 05, 2016

This Document is Available on-line at: http://mohsen.banan.1.byname.net/PLPC/120048

Mohsen BANAN

Email: http://mohsen.1.banan.byname.net/contact

Contents

I	ByStar Reference Model Review	1
1	Philosophy And Values – Tangible Authonomy and Tangible Privacy	1
2	ByStar Platform (BxP)	1
3	Concept Of Autonomous and Controlled By* Information and Service Objects (BxIso)	1
4	Services Realization Of BxIsos	1
5	Email Service Realization Of BxIsos	2
II	Daemontools Live Walkthrough	2
6	Daemontools Blee Panel	2
7	File Variables As The Most Simple Control Method	2
III	dnscache and tinydns Overview	2
8	Dnscache Overview	2
9	Tinydns Overview	3
IV	Class Activities	3
10	Emacs As A System Administration Tool	3
11	Bash Scripting – The IIM Framework Oriented Approach	3
	11.1 Framework Oriented IIM Bash Scripting	3
	11.2 Adding An iimPanel to Our iimBash Examples	3
V	Assignments	4
12	Assignments	4

List of Figures

Part I

ByStar Reference Model Review

1 Philosophy And Values – Tangible Authonomy and Tangible Privacy

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?

2 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

3 Concept Of Autonomous and Controlled By* Information and Service Objects (BxIso)

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

4 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/

5 Email Service Realization Of BxIsos

Email Service Realization Of BxIsos

Within B̃xIso/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

6 Daemontools Blee Panel

Daemontools Blee Panel

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

7 File Variables As The Most Simple Control Method

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

8 Dnscache Overview

Dnscache Overview

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

9 Tinydns Overview

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

11.1 Framework Oriented IIM Bash Scripting

- $\bullet \ cp / opt/public/osmt/bin/startIimGeneric.sh ~7 is it 442/lastName-iim.sh \\$
- · Add VisExample
- · Add Describe
- · Add Functionality
- Add EH_problem
- Invoke Through Emacs Client

11.2 Adding An iimPanel to Our iimBash Examples

- cd 7isit442
- cp /opt/public/osmt/bin/startIimBash.org Panel.org
- F11-F11
- · Let's Customize

Part V

Assignments

12 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

References