



Business DIY:Building Enterprise Infrastructure on Linux Part 2



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Handouts

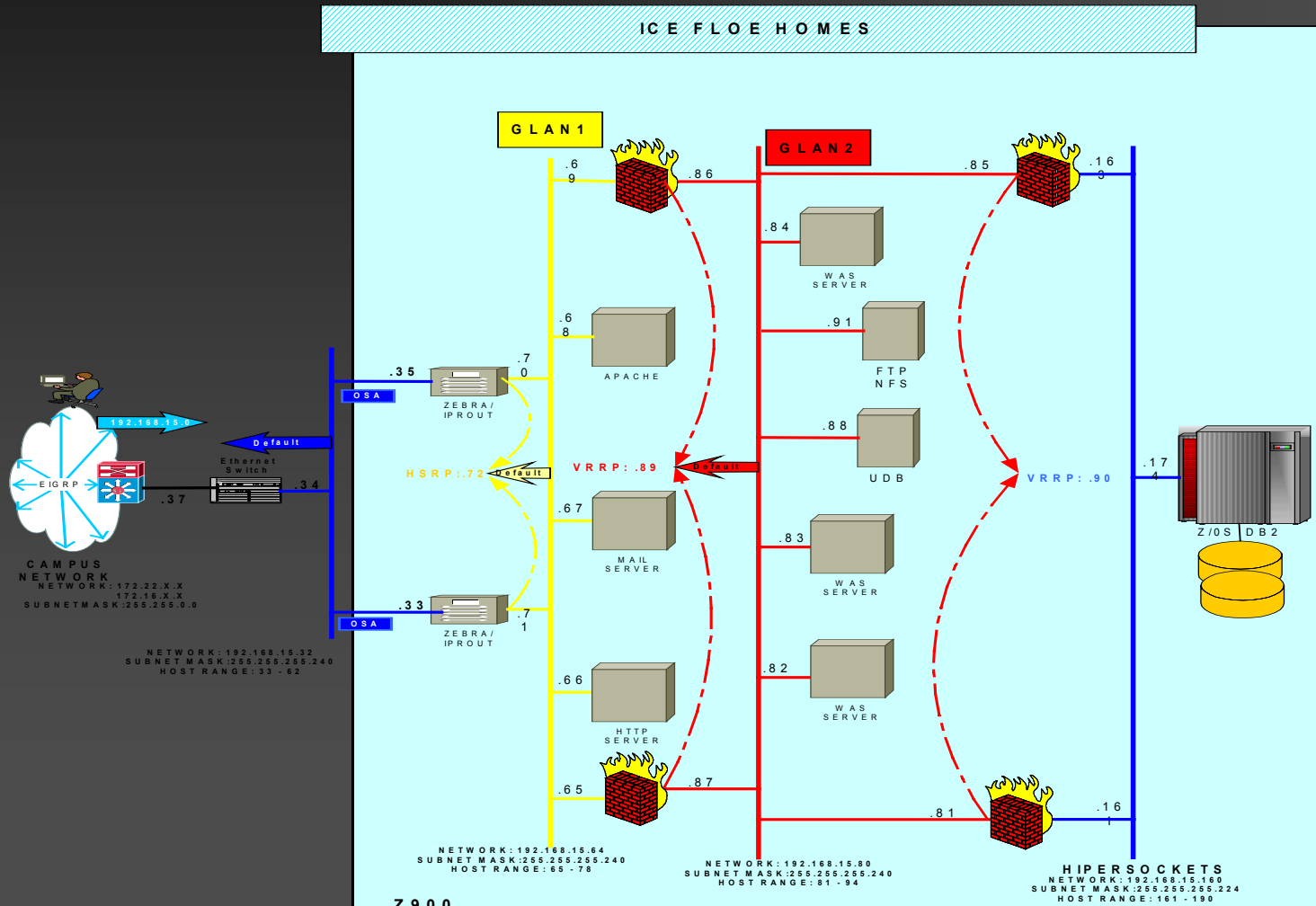
- Handouts for this session are not on the CD but are available for download from:

<http://www.sinenomine.net/downloads/lahulpe/L976.pdf>

Recap

- In part 1:
 - We defined the design and application selection for Ice Floe Homes' new infrastructure
 - We selected products for use in the new environment
 - We chose the existing z900 at Ice Floe for the platform to implement the new solution
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Applications Design



Applications List



■ Open Source

- Iptables
- Zebra
- Apache
- Cyrus IMAP
- Sendmail

■ Commercial

- SuSE Linux (2.4 kernel)
 - Z/VM 4.3
 - Websphere AS
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Z/VM Install

- Follow the Fine Manual
 - Do NOT enable SAF/VMADMIN
 - Load OSA/SF even if you plan to use QDIO
 - Ensure that current service is loaded
 - QDIO support
 - Hipersockets support
-

Guest LAN Definition

- Testing:

```
define lan glan1
```

```
define lan glan2
```

```
define nic <addr> <glanid>
```

```
couple nic <addr> <scope> <glanid>
```

- Real production:

Move definitions to SYSTEM CONFIG

VM TCPIP

- Use a non-primary port if using OSA
 - Attach to GLAN1
DEVICE and LINK for QDIO link
 - Set up MPRROUTE (see Alan Altmark's routing presentation for details)
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Linux Install

- Choose hipersocket for default network install
 - Use 2.4 kernel
 - Start with “DMZ Install” and build up
 - IPL CMS first; then Linux
 - `rpm -a <rpmname>`
 - Add nkitb and xinetd (CD 2 & 3)
 - Add zebra (CD 5)
 - Add iptables (CD 2)
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Network Implementation

- 'ip route add' vs 'route add'

ip route add default dest <ipaddr> metric x

ip route add source <sourceip> <ipaddr>

Note: affected by learned routes from zebra!

HTTP Server

- Same base as firewall, etc.
- `rpm -a apache*`
`rpm -a php4*`

Web Apps Server

- `rpm -a tomcat*`

or

Install Websphere

Mail Server

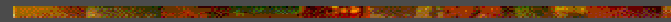
- `rpm -a sendmail*`
`rpm -a cyrus-imap*`

Use `yast` to do user administration

Summary

- Tools exist to build infrastructure rapidly
 - Tools scale well
 - Timeline: 1 week to infrastructure availability
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“It’s the Best Thing for Both of Us”



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