Chapter 1: The Domain Name Ecosystem
Chapter 2: Registries, Registrars, and Whois

Motorhead: Motörhead

Hong Kong’s TLD: .危危

Screen shot

$ host -t ns .危危

host: ‘.危危’ is not a legal name (empty label)
Chapter 3: Intellectual Property Issues

If you have questions, you may want to consult an attorney or legal expert on trademarks and intellectual property for guidance.

If you continue with this registration, you represent that, you have received and you understand this notice and to the best of your knowledge, your registration and use of the requested domain name will not infringe on the trademark rights listed below.

The following 1 Trademarks are listed in the Trademark Clearinghouse:

1. Mark: PLAN B

Jurisdiction: United States of America
Goods: 5. emergency contraceptive tablets.
International Class of Goods and Services or equivalent if applicable:
Pharmaceutical and veterinary preparations; sanitary preparations for medical purposes; dietetic food and substances adapted for medical or veterinary use, food for babies; dietary supplements for humans and animals; plasters, materials for dressings; material for stopping teeth, dental wax; disinfectants; preparations for destroying vermin; fungicides, herbicides.

Trademark Registrant:
Women's Capital Corporation

Trademark Registrant Contact:
4 Nickerson Street, Suite 300
Seattle
Washington
08100

Cancel
I agree to the terms
Chapter 4: Communication Breakdowns

Please verify your contact information

The domain name(s) below will be suspended if this verification is not completed.

Recently you may have registered, transferred or modified the contact information for the following domain name(s):

antiglam.com

You will have also received a link to this page if we could not successfully deliver a WHOIS Data Reminder Policy (WDRP) or domain name expiration email.

Contact information for the domain name(s) above

First Name: some  
Last Name: guy  
Email: markjr@myprivacy.ca

If this information is inaccurate or out of date, please update it with your registration service provider, after which you will receive a new verification request.
Domain Name Expiration Notice

As a courtesy to domain name holders, we are sending you this notification of the domain name registration that is due to expire in the next few months. When you switch today to the Domain Registry of Canada¹, you can take advantage of our best savings. Your registration for web20developer.com will expire on March 1, 2010. Act today!

Domain name: web20developer.com
Reply Requested By: November 30, 2009

You must renew your domain name to retain exclusive rights to it on the Web, and now is the time to transfer and renew your name from your current Registrar to the Domain Registry of Canada¹. Failure to renew your domain name by the expiration date may result in a loss of your online identity making it difficult for your customers and friends to locate you on the Web.

Privatization of Domain Registrations and Renewals now allows the consumer the choice of Registrars when initially registering and also when renewing a domain name. Domain name holders are not obligated to renew their domain name with their current Registrar or with the Domain Registry of Canada¹. Review our prices and decide for yourself.

THIS IS A SOLICITATION FOR THE ORDER OF SERVICES AND NOT A BILL, INVOICE OR STATEMENT OF ACCOUNT DUE. YOU ARE UNDER NO OBLIGATION TO MAKE ANY PAYMENTS ON ACCOUNT OF THIS OFFER UNLESS YOU ACCEPT THIS OFFER.

<table>
<thead>
<tr>
<th>Term</th>
<th>Period Covered</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 year</td>
<td>Until – Mar 1, 2011</td>
<td>$40.00</td>
</tr>
<tr>
<td>2 years (Recommended)</td>
<td>Until – Mar 1, 2012</td>
<td>$79.00  (save $10)</td>
</tr>
<tr>
<td>5 years (Best Value)</td>
<td>Until – Mar 1, 2015</td>
<td>$160.00 (save $40)</td>
</tr>
</tbody>
</table>

The following names are currently available for you to register and secure, protecting your domain name from being duplicated.

<table>
<thead>
<tr>
<th>Other Available Domains</th>
<th>Period Covered</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>web20developer.ca</td>
<td>2 Years</td>
<td>$70.00</td>
</tr>
<tr>
<td>web20developer.net</td>
<td>2 Years</td>
<td>$70.00</td>
</tr>
</tbody>
</table>

Registration of the above domain names includes DNS, URL and Email Forwarding to a website and mailbox you designate.

Transfer and renew your domain name online at www.droc.ca 24 hours a day, 7 days a week or call our Customer Service Department, toll free, at (866) 454-0212 to transfer and renew your domain name today.

Please detach this stub and include it with your payment.

Check the appropriate boxes of the Domain Names you would like to order.

- web20developer.com

<table>
<thead>
<tr>
<th>Expiration Date</th>
<th>Reply Requested By</th>
<th>Renewal Term</th>
<th>Payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 1, 2010</td>
<td>November 30, 2009</td>
<td>1 Year</td>
<td>$40.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 Year</td>
<td>$79.00  (save $10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 Year</td>
<td>$160.00 (save $40)</td>
</tr>
</tbody>
</table>

Available Domain Names (optional)

| web20developer.ca | 1 Year       | $40.00  |
| web20developer.net | 1 Year       | $40.00  |

Total Amount
(Export 5% GST)

Please print your domain name on your check. If paying by credit card, please enter your information below:

Card Number: ____________________________
Expiration: _____ / _____

Signature: ____________________________
Attention: Important Notice, DOMAIN SERVICE NOTICE
Domain Name: phpwbois.org

ATT: Mark Jefovic
phpwhois.org
Response Requested By
9 - Jun. - 2018

PART 1: REVIEW NOTICE

As a courtesy to domain name holders, we are sending you this notification for your business Domain name search engine registration. This letter is to inform you that it's time to send in your registration.

Failure to complete your domain name search engine registration by the expiration date may result in cancellation of this offer making it difficult for your customers to locate you on the web.

Privatization allows the consumer a choice when registering. Search engine registration includes domain name search engine submission. Do not discard, this notice is not an invoice it is a courtesy reminder to register your domain name search engine listing so your customers can locate you on the web.

This Notice for: phpwbois.org will expire at 11:59PM EST, 9 - Jun. - 2018 Act now!

Select Package:
http://verjaardagsteksten.com/domain/7domain-phpwhois.org
Chapter 5: A Tale of Two Nameservers
Chapter 6: DNS Queries in Action

[Diagram showing the process of resolving a domain name to an IP address through DNS queries.]

- Root
  - com
  - net
  - US
  - CA
  - XYZ
  - EMAIL

Every zone served by authoritative name servers

- example.com
- a.gld-servers.net
- b.gld-servers.net

- ns1.example.com
- ns2.example.com

Resolvers - are asking questions

- example.com?
- net?
- icann.org?
- packtpub.com?
<table>
<thead>
<tr>
<th>Flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>QR</td>
</tr>
<tr>
<td>Opcode</td>
</tr>
<tr>
<td>AA</td>
</tr>
<tr>
<td>TC</td>
</tr>
<tr>
<td>RD</td>
</tr>
<tr>
<td>RA</td>
</tr>
<tr>
<td>reserved 1</td>
</tr>
<tr>
<td>reserved 2</td>
</tr>
<tr>
<td>reserved 3</td>
</tr>
<tr>
<td>RCODE</td>
</tr>
</tbody>
</table>
Chapter 7: Types and Uses of Common Resource Records

www.example.com. IN A 192.168.13.56
vs
The following values are defined or reserved:

<table>
<thead>
<tr>
<th>Value</th>
<th>Mnemonic</th>
<th>Certificate Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Reserved</td>
<td>Reserved</td>
</tr>
<tr>
<td>1</td>
<td>PKIX</td>
<td>X.509 as per PKIX</td>
</tr>
<tr>
<td>2</td>
<td>SPKI</td>
<td>SPKI certificate</td>
</tr>
<tr>
<td>3</td>
<td>PGP</td>
<td>OpenPGP packet</td>
</tr>
<tr>
<td>4</td>
<td>IPKIX</td>
<td>The URL of an X.509 data object</td>
</tr>
<tr>
<td>5</td>
<td>ISPKI</td>
<td>The URL of an SPKI certificate</td>
</tr>
<tr>
<td>6</td>
<td>IPGP</td>
<td>The fingerprint and URL of an OpenPGP packet</td>
</tr>
<tr>
<td>7</td>
<td>ACPKIX</td>
<td>Attribute Certificate</td>
</tr>
<tr>
<td>8</td>
<td>IACPKIX</td>
<td>The URL of an Attribute Certificate</td>
</tr>
<tr>
<td>9-252</td>
<td></td>
<td>Available for IANA assignment</td>
</tr>
<tr>
<td>253</td>
<td>URI</td>
<td>URI private</td>
</tr>
<tr>
<td>254</td>
<td>OID</td>
<td>OID private</td>
</tr>
<tr>
<td>255</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>256-65279</td>
<td></td>
<td>Available for IANA assignment</td>
</tr>
<tr>
<td>65280-65534</td>
<td></td>
<td>Experimental</td>
</tr>
<tr>
<td>65535</td>
<td></td>
<td>Reserved</td>
</tr>
</tbody>
</table>
Chapter 10: Debugging Without Tears – DNS Diagnostic Tools
Chapter 11: DNS Operations and Use Cases
The image contains three diagrams:

1. A tree diagram with nodes labeled as `ns0`, `ns1`, `ns2`, and `ns3`. The labels `production`, `update glue`, and `add new nodes` are associated with these nodes.

2. A network diagram showing a load balancer connected to a datacenter with 1 POP. The load balancer is connected to resources.

3. A network diagram showing connections between nameservers, clients, datacenter A (192.168.4.7), and datacenter B (10.2.31.7).
from: me@example.com
spf: v=spf2 a@mail.example.com-all

mail.example.com  Destination  forwarder.isp.com

SPF Pass 😊

SPF Fail 😞

forwarder.isp.com != mail.example.com
Chapter 12: Nameserver Considerations

Unicast Scenarios

Scenario A
nsl.example.dom 205.210.42.12

Scenario B
nsl.example.dom 205.210.42.12
load balancer

Unicast Scenarios

192.168.1.12
192.168.1.13
192.168.1.14

multiple hosts behind load balancer

anycast deployment

node 1
64.68.192.10
node 2
node 3
node 4

all nodes respond to same IP

anycasting 205.210.42.13

205.210.42.13 eth0:1
194.38.7.6 eth0
205.210.42.13 eth0:1
12.161.42.18 eth0
205.210.42.13 eth0:1
67.185.41.5 eth0
Chapter 13:
Securing Your Domains and DNS

Diagram:
- .com TLD
- ZSK signs
- example.com DS
- example.com
- KSK Hash
- Signs ZSK
- ZSK signs each RR set
- SOA
- NS
- A
- MX
- CNAME
- TXT
- SRU
- NAPTR
- CAA
The internet is actually controlled by 14 people who hold 7 secret keys
Chapter 14: DNS and DDoS Attacks