



# Multiple Directories

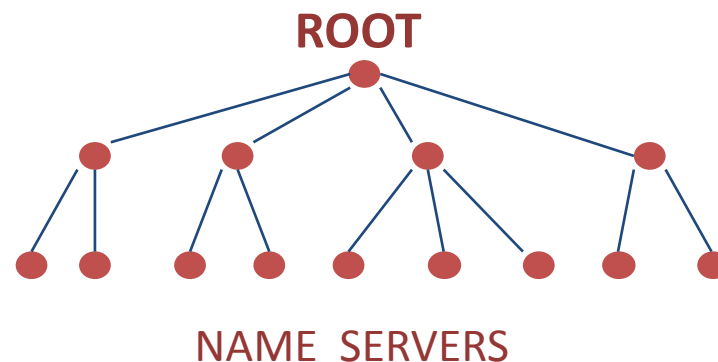
Louis POUZIN  
IGF Bali – October 2013

# Domain Name System (DNS)



## INTERNET DIRECTORY

- DESIGNED IN 1982/83
- HIERARCHICAL STRUCTURE
- PHYSICALLY DISTRIBUTED
- NAME  $\rightarrow$  IP#
- STRING IN (SUB)ASCII (LDH LETTER DIGIT HYPHEN)



# ICANN ROOT MONOPOLY



- CENTRALIZED MANAGEMENT IN USA
- NAMES PRIMARILY ASCII
- HOMONYMS – NO
  - MARTIN – ISOC – TAXI
- SAFETY – NO
  - SEIZURE BY FBI
- JURISDICTION
  - CALIFORNIA
- UNJUSTIFIED COSTS
- NOT ALL SITES ACCESSIBLE VIA ICANN



# NON ICANN LEGACY

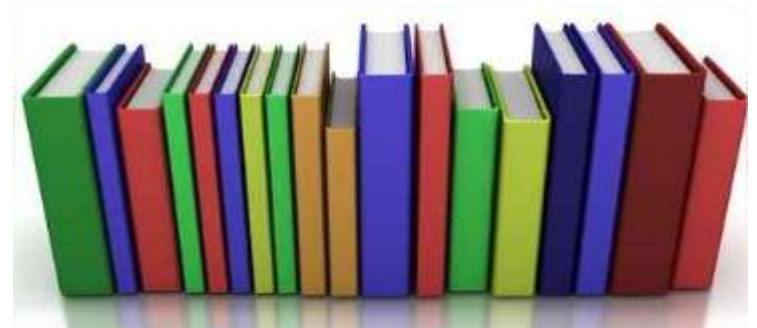


- « ALTERNATE » DIRECTORIES SINCE 1996
  - PRE DATE ICANN (BORN IN 1998)
- .BIZ SNATCHED BY ICANN
- SEE WIKIPEDIA
  - ([en.wikipedia.org/wiki/Alternative\\_DNS\\_root](https://en.wikipedia.org/wiki/Alternative_DNS_root))
- USUALLY CUSTOM + ICANN
- LIMITED CLIENTELE
- DEPRECATED BY ICANN

# DIVERSITY



- PRIVATE/PUBLIC DIRECTORIES
- HOMONYMS
- COMPETITION
- CHOICE OF PROVIDERS
  - AND JURISDICTION
- CHOICE OF DIRECTORIES
  - FAMILY – SPORT – FINANCE – FILMS ...
- TRADE DIRECTORIES
- COMPANY DIRECTORIES
- ALL INTERNET SITES ACCESSIBLE (IF THEY WISH)



# OPERATION



- CONTINUITY OF ACCESS TO ICANN ROOT
- PRESENCE IN SELECTED ROOTS
  - INCLUDING ICANN
- TERMS OF SERVICE DEFINED BY EACH OPERATOR
- POSSIBLE SERVICES
  - NAME SERVERS NETWORK
  - HOSTING – MAINTENANCE
  - SERVER ADMINISTRATION
  - CUSTOM FILTERING

# ACCESS TO NAME SERVERS



- NAME SERVERS

- INDEPENDENT OF ICANN
- ROOT CONTAINS ALL TLD's
- ... OR A CUSTOM SELECTION OF TLD's

- INTERNET PREFERENCES

- IP ADDRESSES OF DNS SERVERS (1 OR +)
- PRIORITY OVER ISP
- INSTALLATION ACCORDING TO CLIENT SYSTEM
  - ✓ MAC – WINDOWS – LINUX – SMARTPHONE ...
  - ✓ PROXY – COMPANY SERVER





# WINDOWS XP VISTA 7



**Internet Protocol (TCP/IP) Properties** [?] [X]

General | Alternate Configuration

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address:

Subnet mask:

Default gateway:

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server:  ←

Alternate DNS server:  ←

Advanced...

OK Cancel





# COMMONWEALTH



<http://CW.CW>

The screenshot shows a web browser window with the URL <http://CW.CW>. The page features a yellow header with the date "Saturday, 15 June 2013". The main content area is titled "Deputy Secretary-General concludes visit to Zambia" and includes a photograph of Mmasekgoa Masire-Mwamba shaking hands with President Michael Sata. Below this, there are sections for "OTHER TOP STORIES" with links to "Commonwealth women's affairs ministers to meet in Dhaka" and "Commonwealth helping small states build resilience to shocks". A "News Feeds" section is visible at the bottom left, and a "Country:" dropdown menu is on the right. A large, faint number "6" is visible on the right side of the page.

# LONDON UYGHUR ENSEMBLE



<http://uyghurensemble.uu>

Fichier Édition Affichage Historique Marque-pages Outils ?

Commonwealth Secretariat - Home London Uyghur Ensemble

uyghurensemble.uu

Portail Lexical - CNRT

 *London Uyghur Ensemble*  
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**Uyghur music studies**  
[music of the uyghurs I](#)  
[music of the uyghurs II](#)  
[uyghur music bazaar](#)

Welcome to the London Uyghur Ensemble's website !



# GERMAN PIRATES PARTY



<http://sachsen.pirates>

The screenshot shows a Mozilla Firefox browser window with the address bar set to [sachsen.pirates](http://sachsen.pirates). The website header includes the logo for 'PIRATEN PARTEI SACHSEN' and a navigation menu with the following items:

- Home icon
- DER LANDESVERBAND ALLE INFOS ÜBER UNS
- UNSERE THEMEN WORÜBER WIR REDEN
- MITMACHEN BEI UNS ZÄHLEST DU!
- PRESSE PRESSEINFOS

The main content area features a large photograph of a crowd at a protest, many holding orange flags with the party's eye logo. To the right of the photo, there is a text box with the heading 'Herzlich Willkommen' and the following text: 'Wir sind die Piratenpartei Sachsen. Wir beschäftigen uns mit Themen wie Netzneutralität und...' and 'Das Besondere: Du verstehst uns als... melden hat. Und wir werden den Landtag...'.

Below the main content, there are two sections: 'Neu auf unserem Blog' with the entry 'Einladung zum Mumble-Stammtisch Sachsen' and 'Die nächsten Termine' with the entry 'Donnerstag...'.



# CHINESE UNIVERSITY



四川大学.中国

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## 四川大学

SICHUAN UNIVERSITY

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全文搜索  检索

邮箱登录

用户名:

@

密码:

登录

学生信息综合服务平台

校内链接

- 各学院主页
- 各部处主页
- 江安校区
- 华西医学中心
  - 图书馆
  - 校友总会
  - 教育基金会
- 四川大学语言文字网
- 《四川大学章程》建设网
- 四川大学新闻网

News 校园新闻 更多>>

- 我校与匹兹堡大学签署全面合作协议 共建“四川大学—匹兹堡学院”
- 我校召开2013届毕业生就业创业工作会 进一步推进毕业生就业工作
- 四川大学召开2011-2012年度社会治安综合治理、安全生产暨消防安全总结表彰大会
- 四川大学-甘洛县对口帮扶工作座谈会在校举行
- 深化改革开放与推动创新发展——我校举行中层干部学习贯彻十八大精神培训第三次报告会
- 我校与克劳斯塔尔工业大学签署联合培养工程博士的合作协议
- 校党委书记杨泉明教授率队赴经济学院调研 鼓励学院在人文社科振兴中取得更大成果
- 我校学生座谈四川大学章程制定工作
- 校长谢和平院士专程看望我校在德国克劳斯塔尔工业大学联合培养的交换生
- 校长谢和平院士率代表团赴德国参加“中德能源论坛”
- 美国犹他大学代表团来访我校
- 校领导率团参加第八届常州先进制造技术成果展示洽谈会 深入推进产学研合作
- “中国西部边疆安全与发展战略协同创新中心”理事会暨学术研讨会在四川大学举行

Notice 公告通知 更多>>

- > 关于实施2013年“青年骨干教师出国研修项目”的通...
- > 关于举行四川大学“课程中心”优秀课程网站评选活动的...

专题、专栏 更多>>

- 学习貫徹党的十八精神专题
- “中国梦·川大梦”专题
- 2013年双代会专题
- 校园文化建设专栏
- 2013年公派研究生专栏
- 信息公开

校园导航

- 成都地图
- 校园地图
- 校园风光
- 各学院、部处电话

<http://四川大学.中国>

# UK UNIVERSITY




拉夫堡大学.中国

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Loughborough University  
Leicestershire, UK  
LE11 3TU  
+44 (0)1509 263171

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## Welcome to Loughborough University



### Enterprise Awards

See all the winning entries from the University's Enterprise Awards 2013

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Latest news | Events | Job vacancies




### Artists and Designers showcase their talent

The degree shows from the School of the Arts and Design School will be open to the public during June, providing the opportunity to view the stunning work of up and coming artists and designers.

31 May 2013

### Research that matters



Technology fit for a king

### Campus life

<http://拉夫堡大学.中国>

# CONCLUSIONS



- MAY BE ATTRACTIVE FOR FLUNKED gTLD's APPLICANTS
- POTENTIAL NEW DIRECTORY ECOSYSTEM
- DISTRIBUTED - LOCALISED - DIVERSIFIED
  - ANY SCRIPT
- PROTECTED FROM US GOV INTRUSIONS
- LOW COST - AFFORDABLE BY SME's



*Thanks for your attention*

**SAVOIR  
FAIRE**

RCS 535 199 228 Paris



[www.open-root.eu](http://www.open-root.eu)

[contact@open-root.eu](mailto:contact@open-root.eu)

Louis **POUZIN**

