

Taiwan IPv6 Directory

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Outline

- Background
- IPv4 address exhaustion website
- Taiwan IPv6 Directory
 - IPv6 Products Directory
 - IPv6 Websites Directory
- Conclusion & Future Work



Background

- The IANA IPv4 address exhaustion happened on 3, Feb.
- IPv6 adoption at critical phase
 - In this phase, it is important to understand how to face IPv4 address exhaustion and adopt IPv6 for internet stakeholders.
- But now, the information is not enough about
 - How to face IPv4 address exhaustion?
 - How many IPv6 products can I choice to deploy?
 - How many IPv6 websites can I access?



Background

- IPv4 address exhaustion website
 - Let everyone knows how to face IPv4 address exhaustion
 - Let everyone knows how to transition from IPv4 to IPv6 and prepare for it.
- Taiwan IPv6 Directory
 - Taiwan IPv6 Products Directory
 - Provide Chinese version document
 - Easy to know and choice IPv6 products when everyone wish to deploy IPv6 network.
 - Taiwan IPv6 Websites Directory
 - When end users have IPv6 connectivity, they wish to connect IPv6 websites
 - Collect Taiwan IPv6 websites and provide the interface to let them register it



IPv4 address exhaustion website



- IPv4 address exhaustion website
 - The website contains important IPv4 address exhaustion information and suggestions for the internet stakeholders such as ISPs/ICPs/Government/Enterprises /Equipment Vendors/End Users
 - URL: http://v6directory.twnic.net.tw/ipv4 exhaustion/⁶



IPv4 address exhaustion website & IPv6 promotion

- The website also provides information
 - □ IPv4 address policy after IPv4 address exhaustion.
 - IPv4 address statistics.
- IPv6 development and transition guideline
 - IPv6 Product Requirement suggestion for government/enterprises/ISPs
 - http://www.ipv6.org.tw/docu/IPv6_Product_Requirement_ %20Documents_V3.0.pdf
 - The development and transition guideline of IPv6 Server and Application for enterprises/ICPs
 - http://www.ipv6.org.tw/docu/IPv6_Server&AP.pdf



IPv4 address exhaustion website & IPv6 promotion

- IPv6 promotion and providing FAQ for end user
 - We use an animated cartoon to introduce
 - IPv4 address exhaustion and impact,
 - What is IPv6?
 - How to setup IPv6?
 - URL http://ipv6faq.ipv6.org.tw/



IPv6 Products Directory

Motivation

- As IPv4 addresses are running out, it is time that we take action on the deployment and transition to IPv6.
- The first step is how to know and choice IPv6 products
- We can find many products supporting IPv6 function in IPv6 ready logo website. But many products only special/test version

Purpose and Benefits

 We established the Taiwan IPv6 Products Directory, let everyone knows that the product supports function and find it easily .



IPv6 Product Directory



URL

- It is in trial and testing phase
- 120 products had registried in this website.
- http://v6product.ipv6.org.tw/



IPv6 Products Directory

- Category
 - Vendor Name
 - Ready Logo Type
 - Product Type
 - Host, Router, Switch, Wireless LAN, Server, Broadband CPE, ...etc.
- Easy to know product specification





IPv6 Websites Directory

Motivation

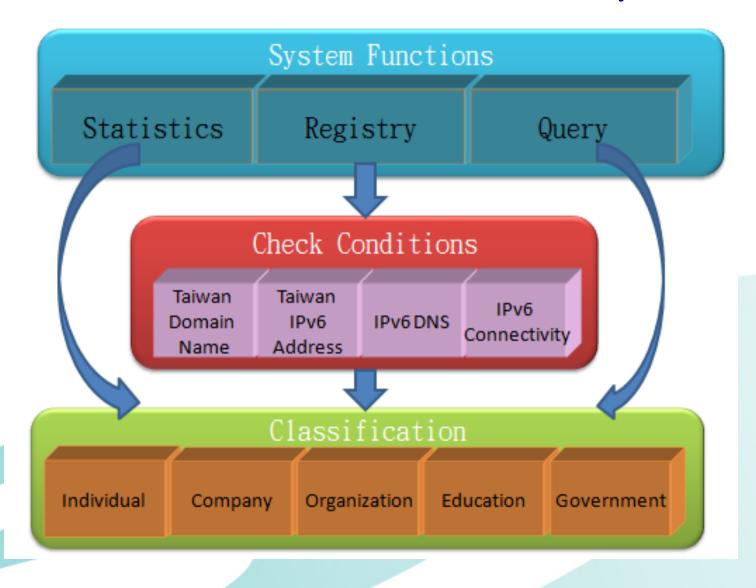
- When end users had IPv6 connectivity, they wish to connect IPv6 websites.
- Many persons don't know where can find IPv6 enabled websites in Taiwan.

Purpose and Benefits

- This website lists IPv6 enabled websites in Taiwan
- General users may register their IPv6 enabled websites to IPv6 Websites directory

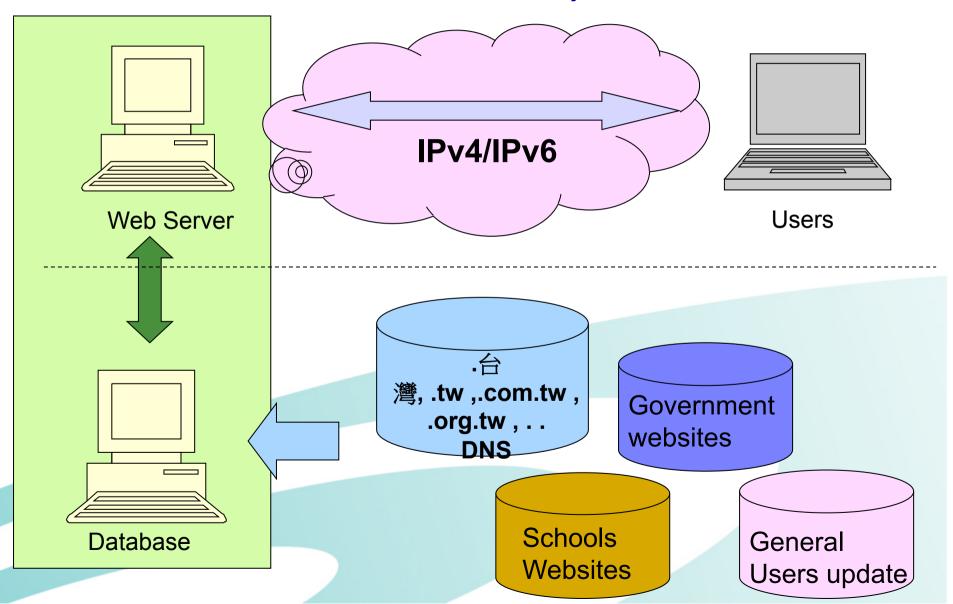


The model of IPv6 Websites Directory





IPv6 Websites Directory Architecture





IPv6 Websites Directory





- URL
 - http://v6directory.twnic.net.tw/
- 1,085 IPv6 enabled websites registered in database, and the IPv6 enabled websites still growth every month.



Conclusion & Future Work

Conclusion

 Facing to IPv4 address exhaustion, the information of IPv6 websites and products will assist everyone to transition and use IPv6.

Future Work

- We will plan to hold "Taiwan IPv6 Day" on June. It will be to motivate ISPs/ICPs to prepare their services for IPv6, and end users can test their IPv6 connectivity.
- TWNIC will coordinate government/ISPs/ICPs to do strategy study about IPv6 transition and deployment, and will output IPv6 transition and deployment strategy in this year.



Q&A



