



Academic Involvement In IPv6

About NAv6

- NAv6 – National Advanced IPv6 Centre
 - Established by Ministry of Energy, Water & Communication (MEWEC) Malaysia in March 2005
 - Formalized under Universiti Sains Malaysia (USM) as a Research Centre under the university in November 2008
- Located in Universiti Sains Malaysia, Penang, Malaysia



What Do We Do?

- Promote IPv6 research, development and utilization in Malaysia
- Study and monitor the impact of the protocol transition particularly for Malaysia and monitor regional development
- Commit to continuous research, experiment and development of new applications as well as the porting of existing applications to the new IPv6 specifications
- Provide the necessary environment and course structures to train and nurture IPv6 programmers and experts for Malaysia and the region

Other Things We Do

- Conduct cutting-edge R & D in IPv6 technology
- Bridge the gap between Academia and Industry in the field of Advanced Computer Networks
- Work towards a developed nation by 2020
 - By contributing scholars and scientists with high level expertise in Advanced Computer Networks
- Facilitate Malaysia to be a Post Graduate Educational hub in the field of Advanced Computer Networks
- Commercialize the research products of the Centre

IPv6 Activities In NAv6

Training & Human Resources

- Creating IPv6 engineers & programmers for Malaysia and the region

Monitoring & Audit

- Facilitating a smooth transition from IPv4 to IPv6 in Malaysia and monitoring regional developments in this area

Awareness & Promotion

- Generating public awareness with regards to IPv6

Core R & D

- Continuous research, experiment & development of new applications and porting existing applications to IPv6

Training @ NAv6

Our
Training
Programs

Network
Fundamentals

IPv6
Certification
Program
(CNE6)

- Level 1 & Level 2

Certified IPv6
Network
Programmer
(CNP6)

Training Program Objective

- Give in-depth information on the transition from IPv4 to IPv6
- Expose the participants on the technical expertise needed in the deployment of IPv6 in the organizations network
- CNP6 course concentrates in porting IPv4 based applications to IPv6 and writing IPv6 based applications



Network Fundamentals

- Introduces basic networking concepts, especially transport & routing protocols
 - Explain how the Internet works
 - Describe how connection and connectionless transport functions
 - Understand routing approaches

Certified IPv6 Network Engineer (CNE6) – Level I

- Learn how to plan & implement in multi-vendor or commercial environment
- Implement new networking software & devices to support IPv6
- Implement auto-configuration for managing IPv6 addresses
- Obtain and configure upgrades for common OS

Certified IPv6 Network Engineer (CNE6) – Level II

- Learn how to plan and implement in multi-vendor or commercial environment
 - Plan & manage the migration of a network to IPv6
 - Implement new networking software and devices to support IPv6
 - Install & configure associated network services such as DNS & routing protocols
 - Update & configure common networking applications (emails, web servers etc)
 - Configure routers & dual-stack

Certified IPv6 Network Programmer (CNP6)

- Learn how to write and implement IPv6-capable applications in a mixed network environment
 - Understand the benefits of IPv6-capable applications
 - Perform IPv6 socket programming and porting
 - Rewrite client & server application to be IPv6-ready
 - Parse and map IPv6 addresses

Who Should Attend?

CNE6

- Network administrators
- Network support personnel
- Network designers
- Networking consultants
- IT managers and directors

CNP6

- Network programmers
- Network designers
- Networking consultants
- IT managers and directors

Duration

Training	Duration
Network Fundamental	2 days
Certified Network Engineer in IPv5 (CNE6 – Level 1)	4 days
Certified Network Engineer in IPv5 (CNE6 – Level 1)	4 days
Certified IPv6 Network Programmer (CNP6)	5 days

Training Approach

- Instructor-Led Training
 - Set in an interactive classroom environment
- Hands-On Lab
 - Step by step hand - on labs with detailed instructions and guide are provided to reinforce all key concepts

Some Statistics

- Started since 2005
- Have trained about 900 people to date
 - Government agencies, private organizations, academic institutions & telcos
- Including international participants:
 - Indonesia, Vietnam, Singapore, Thailand, Philippines, Myanmar, Cambodia, Brunei, Jordan, China, India, Sri Lanka, Iraq & Iran

For More Info

- Go to www.nav6.usm.my/content_training.php
- Or contact Mr. SK Lim at sklim@nav6.usm.my

THANK YOU