Cisco Networking & Linux Red hat

About:-

IBNC - **India's Biggest Networking Championship** aims to reach maximum students and ensure the increase in awareness as well as knowledge about **Cisco Networking & Linux Red hat** amongst **engineering (UG & PG)/ polytechnic/ MCA/ BCA** students.

A Two day **National Level Workshop** on Cisco Networking will be held under the banner of India's Biggest Networking Championship organized by ACES ACM -IIT Delhi & IBNC India. The main focus of workshops is on giving deep and inside knowledge about Networking. We aim at giving practical knowledge of Cisco Routers and Switches by bringing real routers and switches to the college. This is to note that the workshops will be delivered by **Cisco Certified Professionals** working in industry.

After the workshop a Mega Competition of IBNC-2015 on the basis of the two day workshop will be held. In this competition, winners of all Zonal Centers will be competing against each other at IIT Delhi in **March 2015** in association with IBNC India and **ACES ACM-IIT Delhi**. The winner of this Final round will win The India's Biggest Networking Champion title and will be awarded and honored at IIT Delhi by **IBNC India** with prizes worth Rs 1 lakh.

Event Content:-

- OSI Model
    - o How a packet moves through all OSI layers when we ping Google server from an end device (PC or laptop)?
- Networking devices and their use in the industry
    - o Understanding the Process of Unicast, Multicast & Broadcast
    - o Broadcast & Collision Domain
- Subnetting and VLSM
    - o How to divide a network into multiple sub-networks with same range using Subnetting?
    - o How to save an IP address range with VLSM?
    - o Needs and uses of dividing a network into multiple networks
    - o Summarization - How to create a summary of similar IP address blocks?
- Public & Private IPS
    - o What is the need for buying IP addresses?
    - o Where do we buy the IP addresses from?
    - o What is the current cost of an IP address?
- IPv6 Addressing
    - o Hexadecimal Conversion
- Routing
    - o Router Modes
    - o Router IOS
    - o Static and Dynamic Routing Protocols
    - o Best path selection for Routing
    - o Working of these protocols
    - o Shortcomings of the protocols

•Application Layer Protocols and their uses. Protocols include: DHCP, DNS, SMTP& POP3.

•How to use Telnet, Ping, SSH and how do these work in an organization.

• Switching

       o How switch forms its MAC table?

       o A switches form a MAC table still we call it a broadcast device. Why?

       o What is a VLAN and how to configure it?

       o What is VLAN Trunking Protocol (VTP) and how is it used?

•Optional : Access Lists (ACL) o How to implement security features or restrictions on devices using ACL

• Optional : Network Address Translation (NAT)

Benefits:-

- Learn & Interact with renowned Industry Experts.
- Receive an unparalleled education on the art of computer security with personal one on-one attention.
- You will get hands on experience on working on **"Cisco Routers"**
- Mega Competition of IBNC-2015 on the basis of the two day workshop will be held. In this competition, winners of all Zonal Centers will be competing against each other at IIT Delhi in **March 2015**.
- **Certificate of Participation** to all Participants from Aparoksha, IIIT Allahabad.

Register:-

Any Individual can register for this workshop.

This is a 2 day workshop (16 hours).

Date: 20 - 21 March.

Cost: Rs. 1190 per participant

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