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REPORT ON 10 DAYS TRAINING ON CISCO NETWORKING FOR MBO CAPITAL STAFF

BACKGROUND

Computer networking refers to connected computing devices (such as laptops, desktops, servers, smartphones, and tablets) and an ever-expanding array of IoT devices (such as cameras, door locks, doorbells, refrigerators, audio/visual systems, thermostats, and various sensors) that communicate with one another.

Specialized devices such as switches, routers, and access points form the foundation of computer networks.

Switches connect and help to internally secure computers, printers, servers, and other devices to networks in homes or organizations. Access points are switches that connect devices to networks without the use of cables. Routers connect networks to other networks and act as dispatchers. They analyze data to be sent across a network, choose the best routes for it, and send it on its way. Routers connect your home and business to the world and help protect information from outside security threats.

While switches and routers differ in several ways, one key difference is how they identify end devices. A Layer 2 switch uniquely identifies a device by its "burned-in" MAC address. A Layer 3 router uniquely identifies a device's network connection with a network-assigned IP address.

Today, most switches include some level of routing functionality. MAC and IP addresses uniquely define devices and network connections, respectively, in a network. A MAC address is a number assigned to a network interface card (NIC) by a device's manufacturer. An IP address is a number assigned to a network connection.

OBJECTIVE OF THE TRAINING

The main objective of the training is to be able;

• Build simple LANs, perform basic configurations for routers and switches, and implement IPv4

and IPv6 addressing schemes.

- Configure routers, switches, and end devices to provide access to local and remote network resources and to enable end-to-end connectivity between remote devices.
- Develop critical thinking and problem-solving skills using real equipment.
- Configure and troubleshoot connectivity a small network using security best practices.

PARTICIPATION

One participant was trained as planned and he physically attended the training.

DATE OF TRAINING

16th April 2024

VENUE OF THE TRAINING

Cophild, Ground Floor - 22 Oba Akran Avenue Ikeja Lagos

MODE OF TRAINING DELIVERY

The training centre provided a conducive training room for participants. The participant was given a training manual. The use of laptops by participants was a requirement as training was majorly practical sessions where live lab scenarios were discussed and further illustrated using IP phone, routers and switches. The facilitator made use of the white board for illustrations.

TRAINING METHODOLOGY

The training methodology consists of:

- Face to face intensive sessions which makes learning exciting and creative.
- Participant was evaluated through practice lab scenario test.
- Active interaction and inclusion of participant during the training session

CONCLUSION

Overall, the 10 days training was a fruitful and a successful one for the trainee. The participant received a Cophild cooperate bag, study material, jotter, a flash drive containing the softcopy of their materials and a pen. The outcome from the test reflected his understanding of the topics discussed during the training. The participant was asked to evaluate the training and its relevance to their job role. Each participant was also awarded a certificate of participation. The individual certificates and pictures taken during the training have also been uploaded and link shared.

RECOMMENDATION

• Participants need a follow up as well as a second level training.

• Participants need to put into practice what they have learned in their various departments.