Report of Day-7(Router Configuration)

Objectives:

- 1. IP Assignment on Router Interfaces.
- 2. Static Routing Principles.

Practical:

- 1. Create a multi-router network. (Minimum 2)
- Configure static routes 3. Test Connectivity by pinging.

STATIC ROUTING:

Definition: Static routing is a technique that fixes network routes instead of using a dynamic routing protocol. Typically, static routes are manually configured and updated by an administrator. Because static routes are NOT automatically updated, static routing is less scalable than dynamic routing but can be useful for situations such as defining default routes and meeting certain specific requirements.

How Static Routing Works?

Static routing works by using fixed (i.e., they don't change unless someone changes them) routes to define where network traffic is sent. The simple overview of what that looks like in practice is: An administrator configures static routes on their routing devices

Instead of using a dynamic routing protocol, routers send traffic based on their static routes

If something needs to change, the administrator must update the static routes on the routing devices

In practice, static routes and dynamic routes can both populate a routing table, which makes things more complex. If there are overlapping routes, a routing device will use the most specific path to a destination, and administrative distance acts as a tiebreaker.









