

Member 1: [22201317,MUFTASIM FUAD MAHEE]

Responsible for the "Backbone," Addressing Strategy, and Redundancy.

Contributions:

Calculated the subnet masks and designed the IP addressing scheme (The VLSM Tree). Configured the Server Router, Central Router, and Central Backup Router. Configured the "Floating Static Routes" (Administrative Distance 10) to ensure the backup link works if the primary fails for redundancy. Also Configured the Static return routes from the Core back to Deck 17.

Member 2: [22101564,MD. MAHIR LABIB]

Responsible for the Deck 17 "Hub," The Kitchen Requirements, and Security.

Contributions:

Configured the Deck 17 Router (The central hub connecting all sub-areas). Configured the Kitchen Router, including the specific static IP requirement for Tables 1-6 (Last octet rule). Wrote and applied the Access Control List (ACL) to isolate the Kitchen Servers from the rest of the ship. Enabled and tuned Dynamic Routing (RIPv2) for the internal Deck networks.

Member 3: [21301158,ABU SADAT MD. ISTIHAD BARI]

Responsible for End-Users, Services (DHCP/DNS/Email), and Server Applications.

Contributions:

Configured the Sub Router handling Guest Suites, Venues, and the Deck Manager. Configured all DHCP Pools and crucial Excluded Addresses (to protect static servers). Configured the actual applications inside the servers: DNS Records (Central & Kitchen), Web Server HTML (Menus & Company site), Email Server (Users & Domain setup). Configured Guest Tablets, Venue PCs, and email clients.