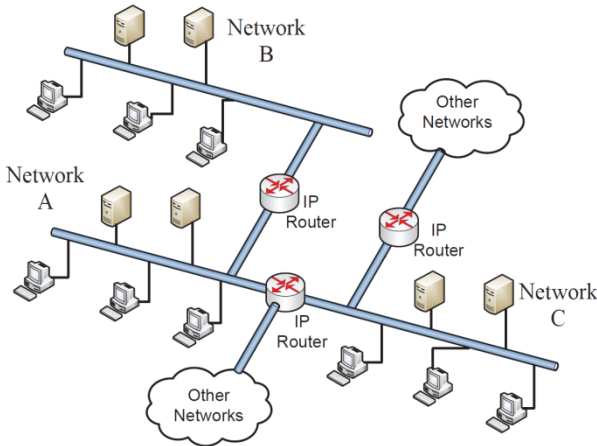


# Nizam AYYILDIZ: Design and Implementation of Hardware Architectures for High-Speed IP Address Lookup



**CIDR → Longest Prefix Match**  
**Single Cycle Lookup → TCAM & DMA**  
**Do the updates block the IP Lookup?**  
**→ Non-blocking update**  
**→ Update on the hardware**

**Hierarchical TCAM Architecture**  
**→ Design Scalability**

