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| Abstract |  |
| A basic Network infrastructure allude to the resources like hardware and software of an entire network that let network connectivity, communication, operations and control of an enterprise network of a city, industries or home. Enterprise network infrastructure provides the communication path and services between users, processes, applications, services and external networks. The main objective of this research paper is to design a hierarchal enterprise network design of a city with consideration network enterprise edge. Cisco packet Tracer latest version was used to design & simulate this design. Using Cisco packet tracer we can simulate application layer protocols, basic routing with RIP, OSPF and EIGRP. Our design consist three locations in Dhaka, Bangladesh: Data center, Banani Branch & Motijheel Branch. | |

**Please specify which Sustainable Development Goal (SDG) (s) falls under your research:**

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| --- | --- | --- | --- |
| Goal 1 | No Poverty | Goal 2 | Zero Hunger |
| Goal 3 | Good Health and Well-Being | Goal 4 | Quality Education |
| Goal 5 | Gender Equality | Goal 6 | Clean Water and Sanitation |
| Goal 7 | Affordable and Clean Energy | Goal 8 | Decent Work and Economic Growth |
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| Goal 11 | Sustainable Cities and Communities | Goal 12 | Responsible Consumption and Production |
| Goal 13 | Climate Action | Goal 14 | Life below Water |
| Goal 15 | Life on Land | Goal 16 | Peace, Justice and Strong Institutions |
| Goal 17 | Partnerships for the Goals |  |  |