**Background of the Problem**  
Designing a network topology involves creating a visual representation of a network's structure and connections. This is crucial for ensuring efficiency, scalability, and security in network communication. In this task, students or participants are asked to design a topology diagram that meets specific technical and visual standards, demonstrating their understanding of network design principles.

**Evaluation Criteria for the Visual Input**

1. **Clarity and Accuracy**:
   * Are the network components correctly represented?
   * Is the connection between devices clearly shown?
   * Is there logical flow in the layout?
2. **Use of Standard Icons and Labels**:
   * Are standard network symbols (e.g., routers, switches, servers) used?
   * Are devices and connections appropriately labeled?
3. **Organization and Neatness**:
   * Is the diagram well-organized and not cluttered?
   * Are icons properly aligned and consistently sized?
4. **Adherence to Instructions**:
   * Did the design meet the specific requirements or instructions given (e.g., include at least one router, one switch, a firewall, etc.)?
5. **Creativity and Professionalism**:
   * Does the topology diagram demonstrate creativity in layout while maintaining professionalism?

**Scoring Method and Rubrics**:

**Use the rubric below to give a score:**

* **90–100% (A):** Exceptional work; diagram is clear, accurate, complete, and professionally presented, fully meeting or exceeding all requirements with consistent use of standard icons and a creative, polished look.
* **80–89% (B):** Solid work; diagram meets most requirements, with minor errors in clarity, neatness, or use of icons; mostly professional and organized with good creativity.
* **70–79% (C):** Satisfactory work; diagram demonstrates an adequate understanding of network topology design, but has noticeable weaknesses in clarity, neatness, use of icons, or adherence to instructions.
* **60–69% (D):** Below average work; diagram demonstrates a limited understanding, with significant weaknesses in clarity, icon usage, neatness, or adherence to requirements.
* **Below 60% (F):** Unsatisfactory work; diagram fails to meet most of the requirements, with major issues in clarity, accuracy, icon usage, and neatness; lacks effort or professionalism.

Each criterion is scored from 0%–100%:

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| --- | --- | --- | --- | --- | --- |
| **Criterion** | **Poor (0–59%)** | **Below Average (60–69%)** | **Satisfactory (70–79%)** | **Good (80–89%)** | **Excellent (90–100%)** |
| **Clarity and Accuracy** | Major errors, missing elements | Several errors in connections or layout | Some errors, mostly accurate | Minor errors, clear connections | Completely clear, accurate, no errors |
| **Use of Standard Icons** | Inconsistent, incorrect usage | Several misused icons | Mostly correct, some inconsistencies | Mostly consistent, correct icons | All correct and consistent |
| **Organization and Neatness** | Cluttered, disorganized | Disorganized, messy layout | Somewhat organized, basic neatness | Mostly organized, clear layout | Very neat, professional appearance |
| **Adherence to Instructions** | Major requirements missing | Several instructions missed | Most instructions met | Few instructions missed | All instructions met |
| **Creativity and Professionalism** | Lacks creativity, effort | Minimal creativity, little polish | Basic creativity, meets minimum expectations | Good creativity, professional effort | Professional look, highly creative |

**Usual Feedback Given About the Input**

* *“Consider using standard icons for better readability.”*
* *“Your diagram would be clearer if you aligned the icons and avoided overlapping lines.”*
* *“You missed including a firewall as required by the instructions.”*
* *“Good job! It’s well-organized, but ensure you label all devices consistently.”*
* *“Professional and creative layout—well done!”*