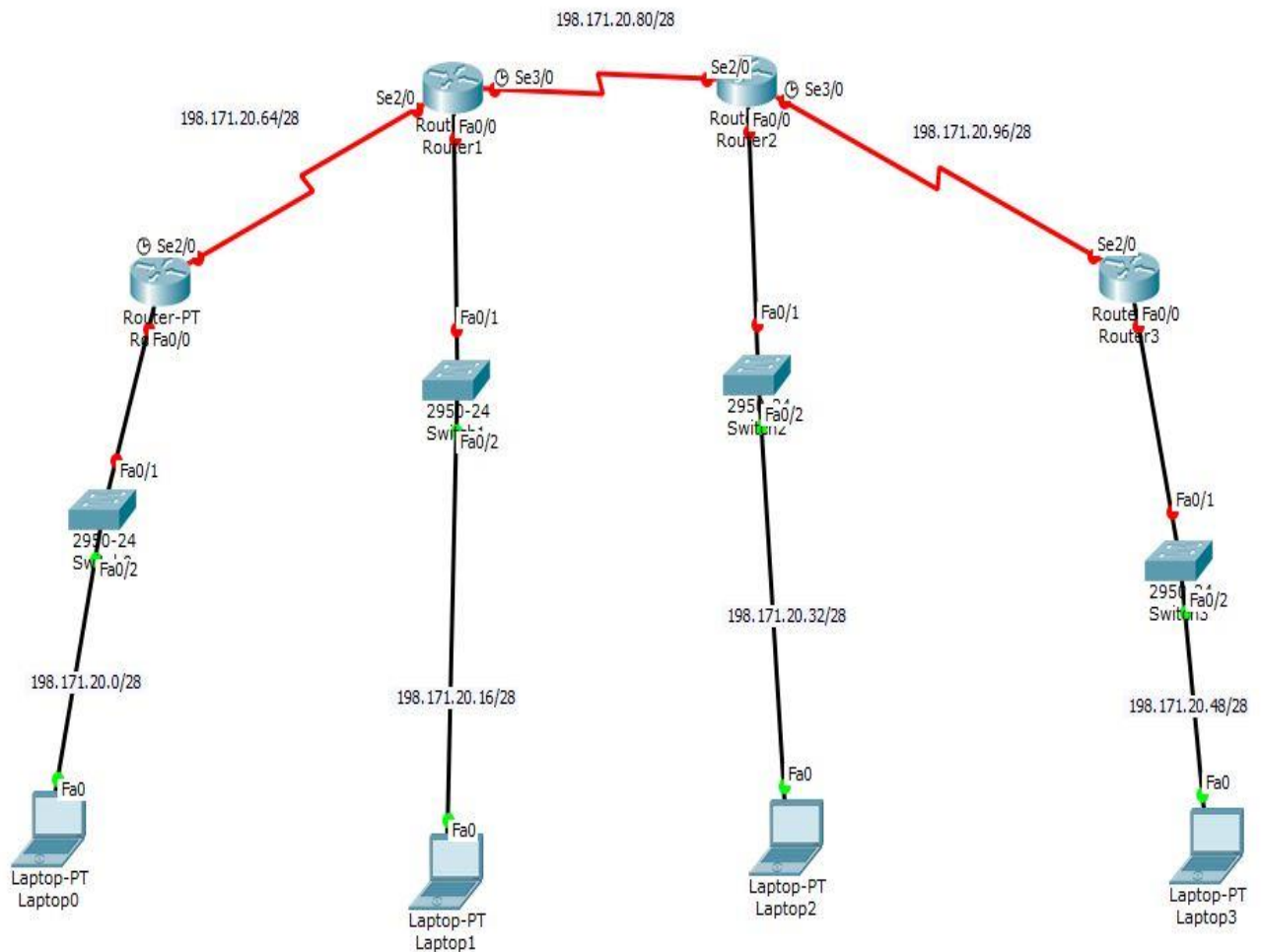


# Static Routing Topology (Set – A)

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### Task 01: Addressing Table

Device	Interface	IP address	Subnet Mask
ROUTER 0	Fa0/0	198.171.20.1	255.255.255.240
	Se2/0	198.171.20.65	255.255.255.240
ROUTER 1	Fa0/0	198.171.20.17	255.255.255.240
	Se2/0	198.171.20.66	255.255.255.240
	Se3/0	198.171.20.81	255.255.255.240
ROUTER 2	Fa0/0	198.171.20.33	255.255.255.240
	Se2/0	198.171.20.82	255.255.255.240
	Se3/0	198.171.20.97	255.255.255.240
ROUTER 3	Fa0/0	198.171.20.49	255.255.255.240
	Se2/0	198.171.20.98	255.255.255.240
PC0	N/A	198.171.20.2	255.255.255.240
PC1	N/A	198.171.20.18	255.255.255.240
PC2	N/A	198.171.20.34	255.255.255.240

<b>PC3</b>	<b>N/A</b>	<b>198.171.20.50</b>	<b>255.255.255.240</b>
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### **Task 2: Subnet Information**

<b>Subnet Number</b>	<b>Subnet Address</b>	<b>First Host Address</b>	<b>Last Host Address</b>	<b>Gateway Address</b>
<b>1</b>	<b>198.171.20.0</b>	<b>198.171.20.2</b>	<b>198.171.20.15</b>	<b>198.171.20.1</b>
<b>2</b>	<b>198.171.20.16</b>	<b>198.171.20.18</b>	<b>198.171.20.31</b>	<b>198.171.20.17</b>
<b>3</b>	<b>198.171.20.32</b>	<b>198.171.20.34</b>	<b>198.171.20.47</b>	<b>198.171.20.31</b>
<b>4</b>	<b>198.171.20.48</b>	<b>198.171.20.50</b>	<b>198.171.20.63</b>	<b>198.171.20.49</b>
<b>5</b>	<b>198.171.20.64</b>	<b>198.171.20.65</b>	<b>198.171.20.79</b>	<b>N/A</b>
<b>6</b>	<b>198.171.20.80</b>	<b>198.171.20.81</b>	<b>198.171.20.95</b>	<b>N/A</b>

### **Task 3: Static Routing Table for Router0**

<b>Network Address</b>	<b>Mask Address</b>	<b>Next Hop</b>
<b>198.171.20.16</b>	<b>255.255.255.240</b>	<b>198.171.20.66</b>
<b>198.171.20.80</b>	<b>255.255.255.240</b>	<b>198.171.20.66</b>
<b>198.171.20.32</b>	<b>255.255.255.240</b>	<b>198.171.20.66</b>
<b>198.171.20.96</b>	<b>255.255.255.240</b>	<b>198.171.20.66</b>
<b>198.171.20.48</b>	<b>255.255.255.240</b>	<b>198.171.20.66</b>

### **Task 3: Static Routing Table for Router1**

<b>Network Address</b>	<b>Mask Address</b>	<b>Next Hop</b>
<b>198.171.20.0</b>	<b>255.255.255.240</b>	<b>198.171.20.65</b>
<b>198.171.20.32</b>	<b>255.255.255.240</b>	<b>198.171.20.82</b>
<b>198.171.20.96</b>	<b>255.255.255.240</b>	<b>198.171.20.82</b>
<b>198.171.20.48</b>	<b>255.255.255.240</b>	<b>198.171.20.82</b>

### **Task 3: Static Routing Table for Router2**

<b>Network Address</b>	<b>Mask Address</b>	<b>Next Hop</b>
<b>198.171.20.48</b>	<b>255.255.255.240</b>	<b>198.171.20.98</b>
<b>198.171.20.16</b>	<b>255.255.255.240</b>	<b>198.171.20.81</b>
<b>198.171.20.64</b>	<b>255.255.255.240</b>	<b>198.171.20.81</b>
<b>198.171.20.0</b>	<b>255.255.255.240</b>	<b>198.171.20.81</b>

### **Task 3: Static Routing Table for Router3**

<b>Network Address</b>	<b>Mask Address</b>	<b>Next Hop</b>
<b>198.171.20.32</b>	<b>255.255.255.240</b>	<b>198.171.20.97</b>
<b>198.171.20.80</b>	<b>255.255.255.240</b>	<b>198.171.20.97</b>
<b>198.171.20.16</b>	<b>255.255.255.240</b>	<b>198.171.20.97</b>
<b>198.171.20.64</b>	<b>255.255.255.240</b>	<b>198.171.20.97</b>
<b>198.171.20.0</b>	<b>255.255.255.240</b>	<b>198.171.20.97</b>