

TUGAS MATA KULIAH JARINGAN KOMPUTER

“Subnet Troubleshooting Game”



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**SISTEM KOMPUTER
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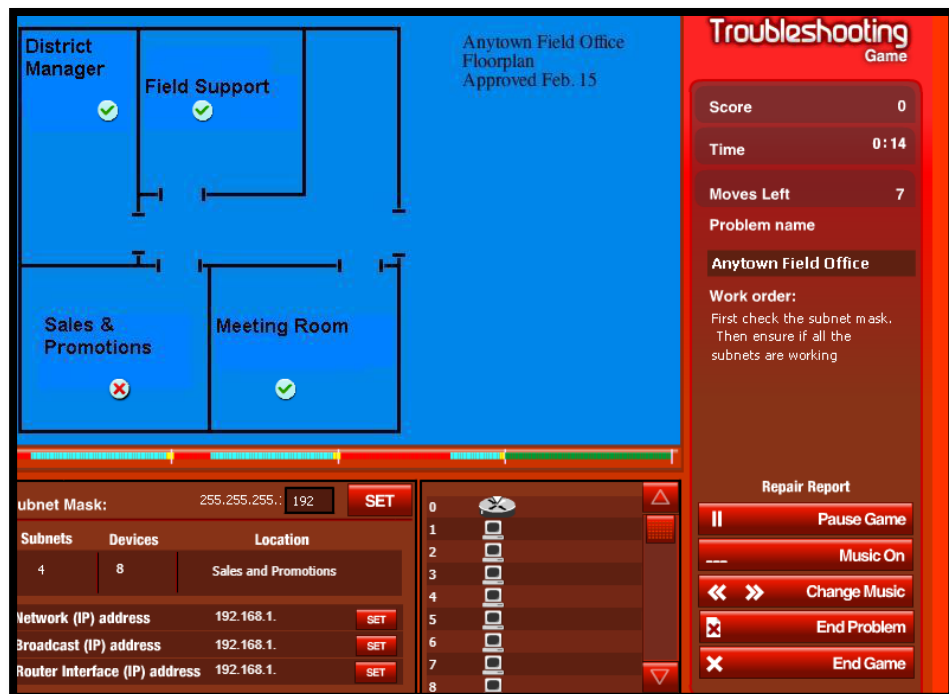
2017

Level 1 (Tiga Buah Kasus)



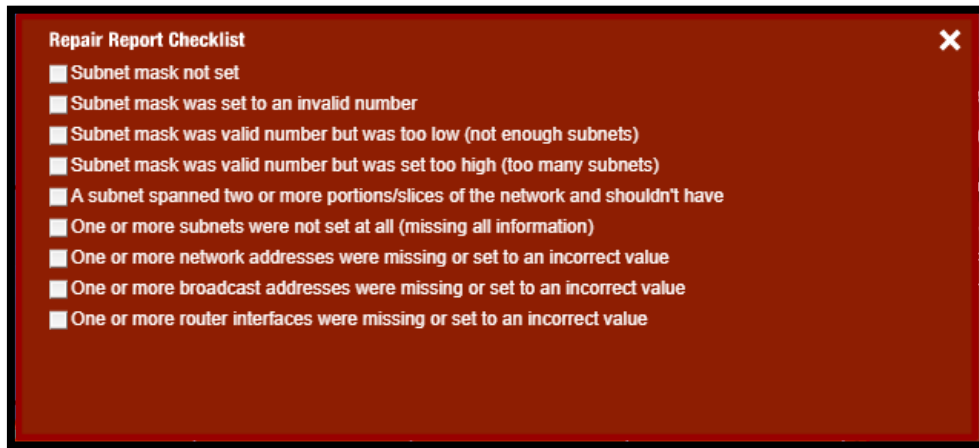
...Anytown Field Office...

Subnet Mask : 255.255.255.118 diganti dengan 255.255.255.192 karena membutuhkan 4 subnets



Sales & Promotion

- Network Address 192.168.1.192
- Broadcast Address 192.168.1.255
- Router Interface Address 192.168.1.254



Repair Report Checklist diisi : 2 dan 6

...Burbsville...

Subnet Mask : 255.255.255.128 diganti 255.255.255.192 karena membutuhkan 4 subnets

The screenshot shows the "Troubleshooting Game" interface. On the left, a network diagram shows a "Field Support Division" (marked with a red X), a "Lunch Area" (marked with a green checkmark), a "District Manager" (marked with a red X), and an "On-Site Warehouse" (marked with a red X). On the right, a sidebar displays game statistics: Score (500), Time (2:35), Moves Left (9), and Problem name (Burbsville). Below the statistics, a "Work order" section states: "It's possible the subnet mask is set wrong to start with." At the bottom, a "Repair Report" section contains buttons for "Pause Game", "Music On", "Change Music", "End Problem", and "End Game".

Subnets	Devices	Location
2	0	On-Site Warehouse

Network (IP) address	192.168.1.
Broadcast (IP) address	192.168.1.
Router Interface (IP) address	192.168.1.

- **District Manager**

Broadcast : 192.168.1.191

Router Interface : 192.168.1.190

- **On-Site Warehouse**

Network Address : 192.168.1.192

Broadcast Address : 192.168.1.255

Router Interface Address : 192.168.1.254

Repair Report Checklist : 3,5,6,7,8, dan 9

...Metropolis...

The screenshot shows the 'Troubleshooting Game' interface. On the left is a floorplan of 'Metropolis Field Offices: Floorplan as of April 16'. The floorplan is divided into several rooms: District Manager (green checkmark), Local Marketing (green checkmark), Meeting Room (green checkmark), Local Engineer Staff (green checkmark), Office Support Staff (red X), Local IT (red X), Sales Support Staff (green checkmark), and On-site Storage (red X). Two 'Elevator Banks' are also labeled. On the right is a sidebar with game statistics: Score 900, Time 8:46, Moves Left 9, and Problem name Metropolis. Below the statistics is a 'Work order' section with the text: 'Sometimes people forget to fill in all the information because they're rushing.' At the bottom right are buttons for 'Pause Game', 'Music On', 'Change Music', 'End Problem', and 'End Game'. At the bottom left is a control panel with a 'Subnet Mask' field set to '255.255.255.224' and a 'SET' button. Below this is a table with columns 'Subnets', 'Devices', and 'Location'. The table shows 8 subnets, 0 devices, and the location 'Meeting Room'. Below the table are fields for 'Network (IP) address', 'Broadcast (IP) address', and 'Router Interface (IP) address', all set to '192.168.1.160', '192.168.1.191', and '192.168.1.190' respectively, each with a 'SET' button. To the right of the control panel is a vertical list of numbers 0 through 8, with icons for each number: 0 (router), 1 (server), 2 (server), 3 (server), 4 (server), 5 (OPEN), 6 (OPEN), 7 (OPEN), 8 (OPEN).

Subnet Mask : 255.255.255.240 diganti dengan 255.255.255.224 karena membutuhkan 8 subnets

- **Office Support Staff**

Network Address : 192.168.1.96

- **Local IT**

Network Address : 192.168.1.128

- **On-Site Storage**

Network Address : 192.168.1.224

Broadcast Address : 192.168.1.255

Router Interface Address : 192.168.1.254

Repair Report Checklist : 4 dan 7

Level 2



...Shipping and Receiving...

The screenshot displays the 'Troubleshooting Game' interface. The main area shows a network floorplan with four docks (Dock 1, Dock 2, Dock 3, Dock 4) and two receiving areas (Receiving 1, Receiving 2). Each dock has a red 'X' icon, indicating a problem. The floorplan is titled 'Shipping & Receiving Floorplan Approved September 5'. To the right, a sidebar shows game statistics: Score 2600, Time 0:06, Moves Left 10, and Problem name 'Shipping and Receiving'. Below the statistics, a 'Work order' section states: 'Look to see if any of the expected values are slightly off.' At the bottom, a 'Repair Report' section contains a checklist with items 0 through 8. The bottom-left panel shows network configuration for Subnet Mask (255.255.255.192) and a table of subnets, systems, and locations.

Subnets	Systems	Locations
4	8	1Dr. Slex Storage

Network (IP) address	192.168.1.224	SET
Subnetmask (IP) address	192.168.1.255	SET
Router Interface (IP) address	192.168.1.254	SET

- **Dock 1**

Network Address : 192.168.1.0

- **Dock 2**

Network Address : 192.168.1.64

Router Interface Address : 192.168.1.126

- **Dock 3**

Network Address : 192.168.1.128

- **Dock 4**

Network Address : 192.168.1.192

Repair Report Checklist : 7 dan 9

...Call Center...

The screenshot displays the 'Troubleshooting Game' interface. At the top left, a blue floor plan shows four areas: 'Call Center Two' (green checkmark), 'Call Center One' (green checkmark), 'Call Center Training' (red X), and 'Entrance & Management' (red X). Below the floor plan is a progress bar and a 'Call Center Floor Plan Approved October 30' note. The bottom left panel shows network configuration for 'Call Center Two' with a subnet mask of 255.255.255.192 and a table of subnets, devices, and locations. The bottom right panel shows a 'Repair Report' checklist with items 0 through 8, and a 'Work order' section with game controls like 'Pause Game', 'Music On', 'Change Music', 'End Problem', and 'End Game'.

Call Center Training

Network Address : 192.168.1.64

Broadcast Address : 192.168.1.127

Router Interface Address : 192.168.1.126

Entrance and Management

Network Address : 192.168.1.192

Repair Report Checklist : 5,7,8, dan 9

- **Call Center Training**

Network Address : 192.168.1.64

Broadcast Address : 192.168.1.127

Router Interface Address : 192.168.1.126

- **Entrance and Management**

Network Address : 192.168.1.192

Repair Report Checklist : 5,7,8, dan 9

...Manufacturing...

The screenshot shows the 'Troubleshooting Game' interface. The main area displays a factory layout with four manufacturing stations: Widget Manufacturing, Cog Manufacturing, Sprocket Manufacturing, and Thingamajig Manufacturing. Each station has a corresponding staging area below it. The Widget and Thingamajig stations are marked with green checkmarks, while the Cog and Sprocket stations are marked with red X's. A 'Plant Foyer' is located at the bottom of the layout. The right sidebar contains game statistics: Score (3500), Time (5:50), Moves Left (10), and Problem name (Manufacturing). The work order is 'Subnets must be distinct.' Below this, a note says 'Please keep this to eight (8) subnets'. The bottom control panel shows a Subnet Mask of 255.255.255.224 and a table of subnets. A repair report checklist is visible on the right side of the control panel.

Subnets	Devices	Location
8	24	Entrance and Management

Network (IP) address	SET
192.168.1.132	SET
Sprocket (IP) address	SET
192.168.1.255	SET
Router Interface (IP) address	SET
192.168.1.254	SET

Repair Report Checklist: 5,7,8,dan 9

- **Cog Manufacturing**

Network Address : 192.168.1.64

Broadcast Address : 192.168.1.95

Router Interface Address : 192.168.1.94

- **Sprocket Manufacturing :**

Broadcast Address : 192.168.1.159

Router Interface Address : 192.168.1.158

Repair Report Checklist : 5,7,8,dan 9

...R + D Lab...

Research and Development Floorplan: Approved June 25

Subnet Mask: 255.255.255.242 SET

Subnets	Devices	Location
0	4	

Network (IP) address 192.168.1.0 SET
Broadcast (IP) address 192.168.1.31 SET
Router Interface (IP) address 192.168.1.32 SET

Troubleshooting Game
Score 4200
Time 12:09
Moves Left 9
Problem name R + D Lab
Work order: Some values can look right at first glance but upon further review are incorrect.
Do you see odd values which are still acceptable?
Repair Report
Pause Game
Music On
Change Music
End Problem
End Game

Subnet Mask : 255.255.255.242 diganti 255.255.255.224 karena membutuhkan 8 subnets

- **Machine Shop**

Router Interface Address 192.168.1.30

- **Product Development**

Router Interface Address 192.168.1.62

- **Safety**

Router Interface Address 192.168.1.94

- **Library**

Network Address 192.168.1.96

Broadcast Address : 192.168.1.127

Router Interface Address : 192.168.1.126

Note : Ketika moves left habis, level completed (?)