



All Academy Day: Home Networking Event Details

Overview

Description

Each team is employed by an ISP. They have been given a work order that directs them to install a Linksys home wireless router onto the cable modem connection and then to configure the security of the wireless network.

Related curriculum

IT Essentials, CCNA Discovery 4.0: Networking for Home and Small Businesses, or CCNA Exploration 4.0: LAN Switching and Wireless

Number of players

These instructions are written for two teams made up of four to five competitors, each to compete simultaneously. By increasing the amount of equipment, the event may be expanded to have as many teams competing at the same time as you like.

Time required to prepare for or set up this event

40 minutes for preparation: setting up the room, testing the equipment, printing documents, downloading configuration files

Length of time to play

We suggest giving each team 15 to 25 minutes to complete the activity and the judges 15 minutes to score the results and reset the challenge for the next team.

Important note

The Home Networking set-up and judging instructions, rules, work order, and configuration files are kept on a secure site. Cisco Networking Academy instructors and administrators may request access to the site by sending an e-mail to allacademyday@external.cisco.com. Please include your name, Academy Connection ID, and Academy name.

Rules

Object of the game

Install a home wireless router and set up the home network.

Playing the game

- Each team is an area ISP that is responsible for hooking up home customers to the Internet.
- Each team will be presented with a work order and a topology diagram. Teams will then fill out the work order, which includes configuring a Linksys router, in the time allotted.
- The members of the team can help each other.

Scoring

Judges will score each team based on a judging sheet (work order).

- Scoring will be based on the following tasks:
 - Physical home connections
 - Wireless connections
 - Wireless network security
- In case of a tie, the shortest time will determine the best router configuration team.

Bonus

The team that completes the event with the fastest time and has no errors will earn an additional 10 points.

All Academy Day scoring

- Each team can earn a total of 110 points, including bonus, in the Home Networking event.
- Enter the Team Grand Total from the work order scoring form into the All Academy Day scoring sheet.

Equipment list

Each academy is different. These are our recommendations for a general topology and judging sheet. Feel free to modify these so that they fit your equipment.

General supplies

- One Eagle Server or Discovery Server
- One preconfigured Cisco router with two Ethernet interfaces, plus backup routers
- One Linksys home router per team, plus backup routers
- One preconfigured Cisco switch per team, plus backup switches
- Four patch cables per team plus backup cables
- One rollover cable plus backup cables (only for judges and setup)
- One crossover cable plus backup cables (This cable is included as a distractor. The cable is not used in the topology.)
- One or two power strips
- Two laptops per team with Ethernet and wireless NIC (teams supply their own)
- One laptop, also with Ethernet and a com port, for judges
- Timer or stopwatch
- Pens for the judges
- “Home Networking Event” sign for the room or area

Judges

- One judge per team

Downloads

- Topology (print two: one for each team plus one for each judge)
- Setup and judging instructions (print two: one for each judge)
- Rules (print four: one for each team plus one for each judge)

- Work order / judging form (print four: one for each team plus one for each judge)
- Configuration files (recommended that one judge have these files on a laptop with a com port)
 - AAD Router with DHCP.txt

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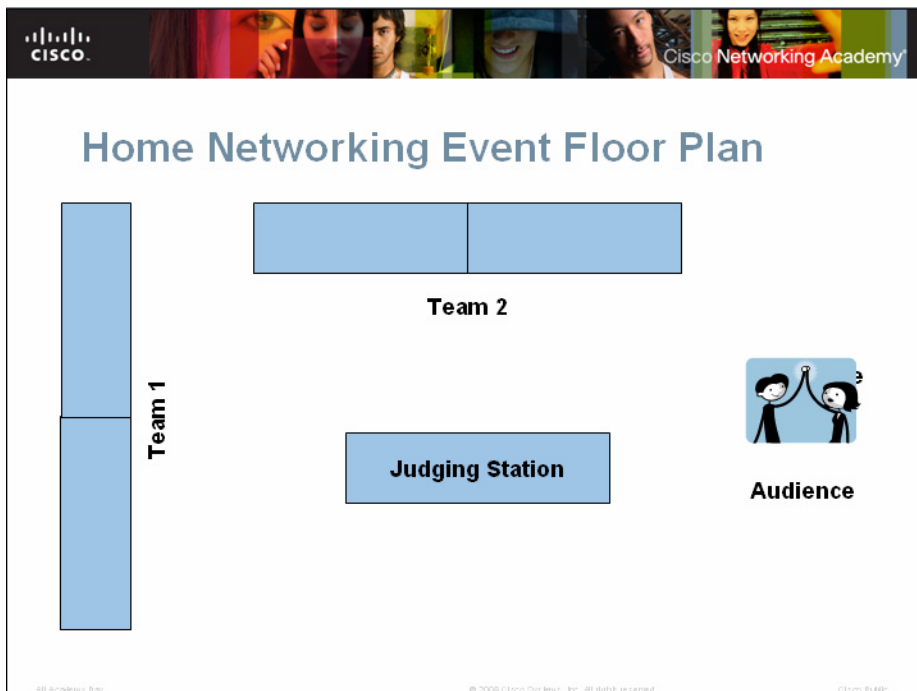
Room setup

- Five 6-foot tables (8-foot tables are fine)
- Enough chairs for contestants, judges, and audience

Room Setup

General room setup

- Post a “Home Networking Event” sign on the door or in the room.
- Place two tables end to end to form one 12-foot work area. Each team should have two tables.
- Place the remaining table in the center of the room to serve as a judging center.
- Seat the audience members so they can see the teams.



Place the following on the work area for each team

- One Eagle Server or Discovery Server
- One Cisco router

- One Cisco switch
- Four patch cables
- One rollover cable (judges only)
- One crossover cable (This cable is included as a distractor. The cable is not used in the topology.)
- One Linksys home router
- One or two power strips
- One work order / judging form
- One problem/rules
- One topology drawing

Each team will bring the following to their table when they compete:

- Two laptops with Ethernet and wireless NIC

Place the following on the judges' table:

- Two laptops with router and switch configuration files
- Timer or stopwatch
- One set of judging instructions per team
- One set of work orders / judging forms per judge
- One set of problem/rules per judge
- One set of topology drawings per judge
- Backup Eagle Server or Discovery Server
- Backup Cisco routers
- Backup Cisco switches
- Backup patch cables
- Backup rollover cables
- Backup crossover cables
- Backup Linksys home routers
- Backup power strips

Hints for Success

- Test each router and switch before the contest begins.
- Have academies and students read the rules before they come to the event.



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