CENTRE ESPECÍFIC
D´EDUCACIÓ A DISTÀNCIA DE
LA COMUNITAT VALENCIANA

UNIT 11.COMPUTER NETWORKS

Activities 3.

Computer Systems
CFGS DAW

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Licencia

Nomenclatura

A lo largo de este tema se utilizarán distintos símbolos para distinguir elementos importantes dentro del contenido. Estos símbolos son:

Actividad opcional. Normalmente hace referencia a un contenido que se ha comentado en la documentación por encima o que no se ha hecho, pero es interesante que le alumno investigue y practique. Son tipos de actividades que no entran para examen

Atención. Hace referencia a un tipo de actividad donde los alumnos suelen cometer equivocaciones.

UD11. COMPUTER NETWORKS
Activities 3

1.1 Activity 1

You are connected to a network using the IP 137.189.200.120/19.

Which is your broadcast address?

1.2 Activity 2

Our network address is 80.0.0.0/8.

We need to divide the network into the necessary subnets so that there will be at least 1500 hosts in each subnet.

1.3 Activity 3

Our computer has the IP 201.10.100.10. Indicate:

a) IP class and default mask.

b) Mask when net is divided in 3 subnets.

c) Network ID and broadcast IP of each subnet.

d) Subnet that our IP belongs to.

e) Number of host available to each subnet.

1.4 Activity 4

In your company there are:

- 4 servers.
- 5 departments.
- between 100 and 200 computers in each department.

You must create one subnet for each department and one for the servers. How would you divide your net? You must choose the IP, subnet mask, and so on.

1.5 Activity 5

Based on your results of activity 4, draw a diagram similar to this one, indicating the network hardware necessary to connect all the computers.

You don’t have to draw every computer, but at least a couple for each subnet, representing first *usable* IP and last *usable* IP.