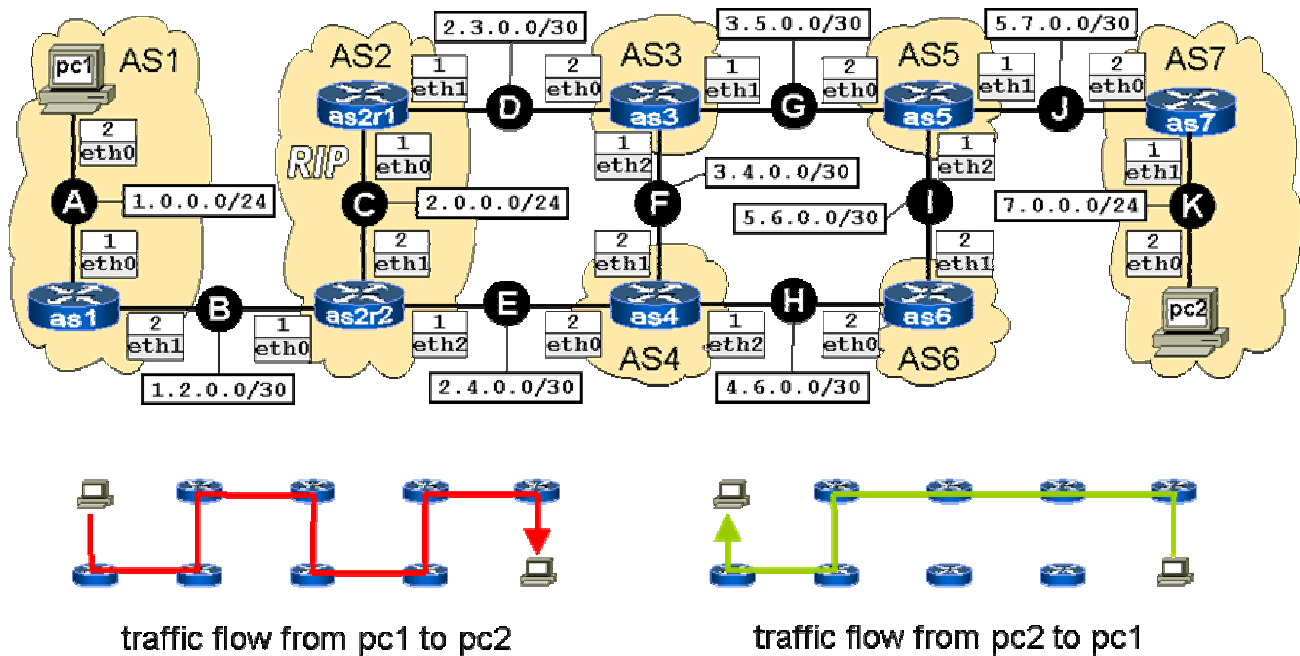**IRC – Prova intemedia del 10-01-2020 – "ZIG"**

Regole del gioco: 1) Indicare su questo foglio cognome, nome e numero di matricola e il PC usato. 2) Si può accedere a tutto il materiale del corso. 3) Non si può interagire in alcun modo con altri. Se ciò dovesse avvenire sarebbe considerato un fatto gravissimo.

Using Kathará, implement the network depicted in the above figure and described below.
- pc1 and pc2 have default gateway 1.0.0.1 and 7.0.0.1, respectively
- All ASes with more than one router run RIPv2 in all the internal interfaces redistributing all connected LANs (it is not needed to redistribute BGP).
- All ASes with more than one border router have iBGP peerings between them.
- All ASes announce in BGP the /30 networks they are adjacent to and their internal networks (if any).
- The traffic flows represented by the two small pictures are realized as follows:
    - AS4 prefers 7.0.0.0/24 from link H; AS3 prefers 7.0.0.0/24 from link F; AS2 prefers 7.0.0.0/24 from link D.
    - AS4 does not accept announcements for prefix 1.0.0.0/24 from all its neighbors.
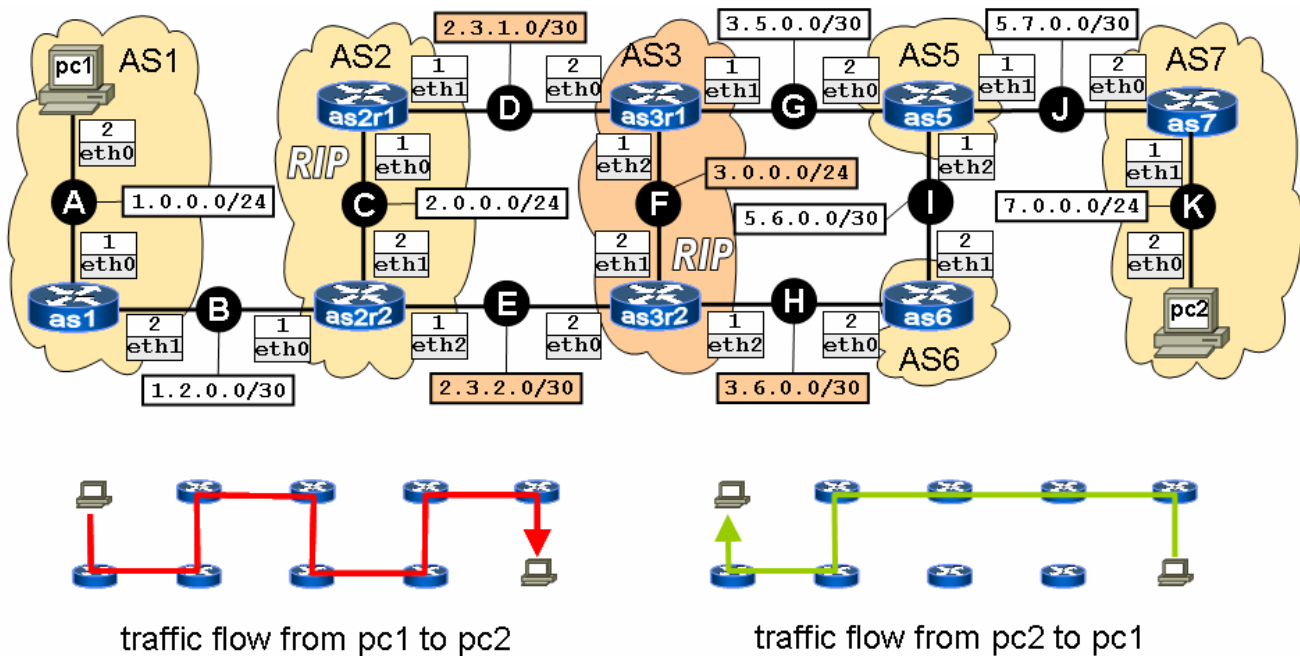
Goals:
- The routing towards 7.0.0.0/24 and 1.0.0.0/24 follows the arrows in the small pictures above by means of the implemented BGP policies.

Submitting procedure:

- Follow the instructions on the submission system available at http://esame.inf.uniroma3.it/

IRC – Prova intemedia del 10-01-2020 – "ZIG MODIFICATO"

Regole del gioco: 1) Indicare su questo foglio cognome, nome e numero di matricola e il PC usato. 2) Si può accedere a tutto il materiale del corso. 3) Non si può interagire <u>in alcun modo</u> con altri. Se ciò dovesse avvenire sarebbe considerato un fatto gravissimo.

Using Kathará, implement the network depicted in the above figure and described below.
- ☐ pc1 and pc2 have default gateway 1.0.0.1 and 7.0.0.1, respectively
- ☐ All ASes with more than one router run RIPv2 in all the internal interfaces redistributing all connected LANs (it is not needed to redistribute BGP).
- ☐ All ASes with more than one border router have iBGP peerings between them.
- ☐ All ASes announce in BGP the /30 networks they are adjacent to and their internal networks (if any).
- ☐ The traffic flows represented by the two small pictures are realized as follows:
  - ○ as3r2 prefers 7.0.0.0/24 from link H; AS2 prefers 7.0.0.0/24 from link D.
  - ○ AS2 prefers to receive traffic to prefix 1.0.0.0/24 from AS3 through link D.

Goals:
- The routing towards 7.0.0.0/24 and 1.0.0.0/24 follows the arrows in the small pictures above by means of the implemented BGP policies.

Submitting procedure:

- Follow the instructions on the submission system available at http://esame.inf.uniroma3.it/