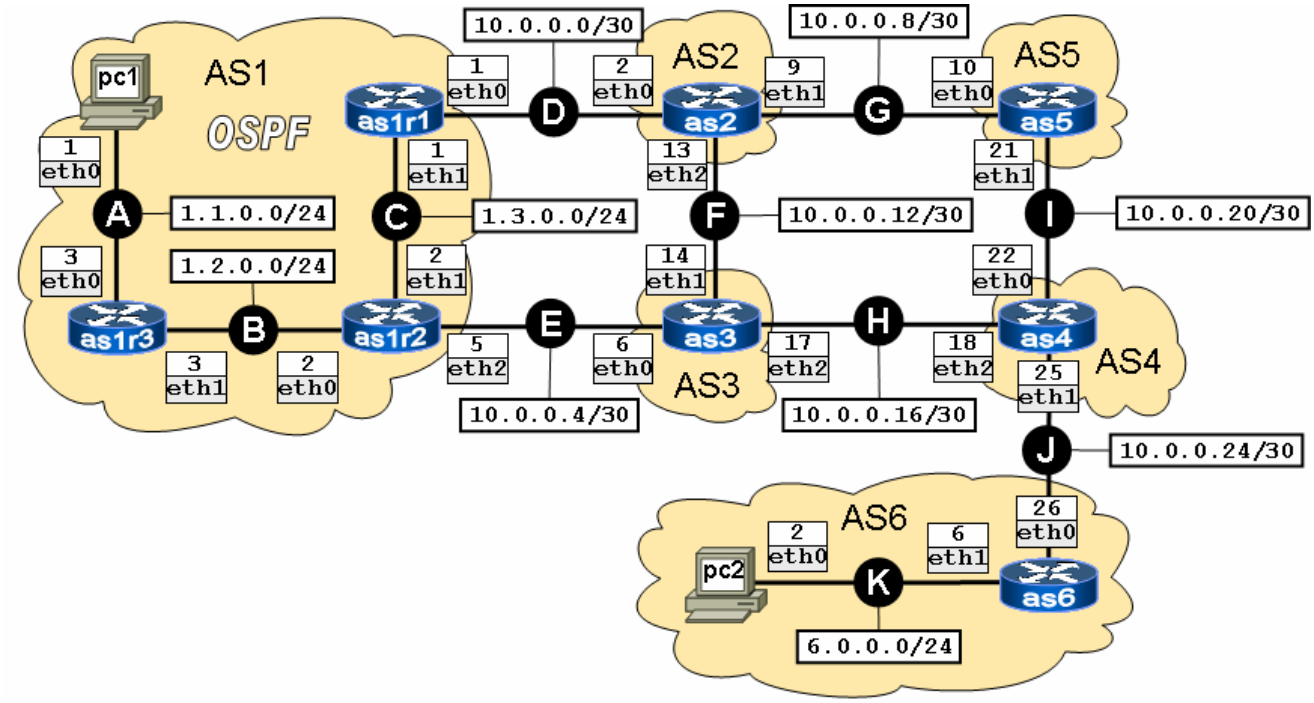
Cognome e nome: ..... Matricola: ..... PC:.....

Internet and Data Centers – Second Intermediate Test (29-11-2021) T1C1

Rules of the game: 1) Fill in this page with your last name, first name, university registration number and the number of the PC you are using now. 2) You can browse all the course material. 3) You cannot interact in any way with others. It would be considered a serious disciplinary issue if you do so.



Using Kathará, implement the network depicted in the above figure and described below.

- ☐ as1r1, as1r2, and as1r3 run the OSPF routing protocol among them (and exclusively among them).
- ☐ No device has the default route with exception of pc1 and pc2 which have the default gateway set.
- ☐ Links between different ASes correspond to eBGP peerings.
- ☐ AS1 announces in BGP only the route `1.0.0.0/8`. All routers announce the prefixes used for their eBGP peerings.

Goals:

- All hosts and routers can ping each other.

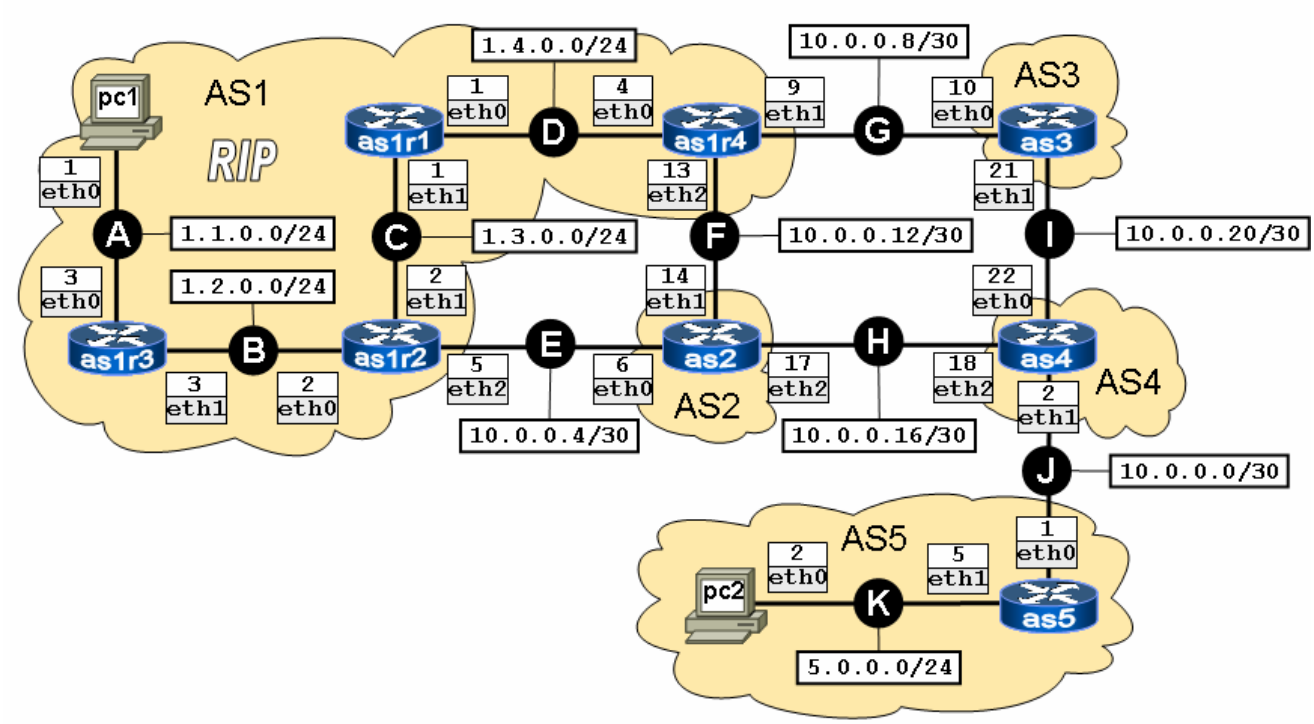
Upload procedure:

- Move into the parent directory of the directory `<lab-directory>` containing the lab and create a `.tar.gz` file containing the lab with the command: `tar czvf file.tar.gz <lab-directory>`
- Upload the `file.tar.gz` file in the form at `http://esame.inf.uniroma3.it/`

Cognome e nome: ..... Matricola: ..... PC:.....

Internet and Data Centers – Second Intermediate Test (29-11-2021) T1C2

Rules of the game: 1) Fill in this page with your last name, first name, university registration number and the number of the PC you are using now. 2) You can browse all the course material. 3) You cannot interact in any way with others. It would be considered a serious disciplinary issue if you do so.



Using Kathará, implement the network depicted in the above figure and described below.

- ☐ as1r1, as1r2, as1r3, and as1r4 run the RIPv2 routing protocol among them (and exclusively among them).
- ☐ No device has the default route with exception of pc1 and pc2 which have the default gateway set.
- ☐ Links between different ASes correspond to eBGP peerings.
- ☐ AS1 announces in BGP only the route `1.0.0.0/8`. All routers announce the prefixes used for their eBGP peerings.

Goals:

- All hosts and routers can ping each other.

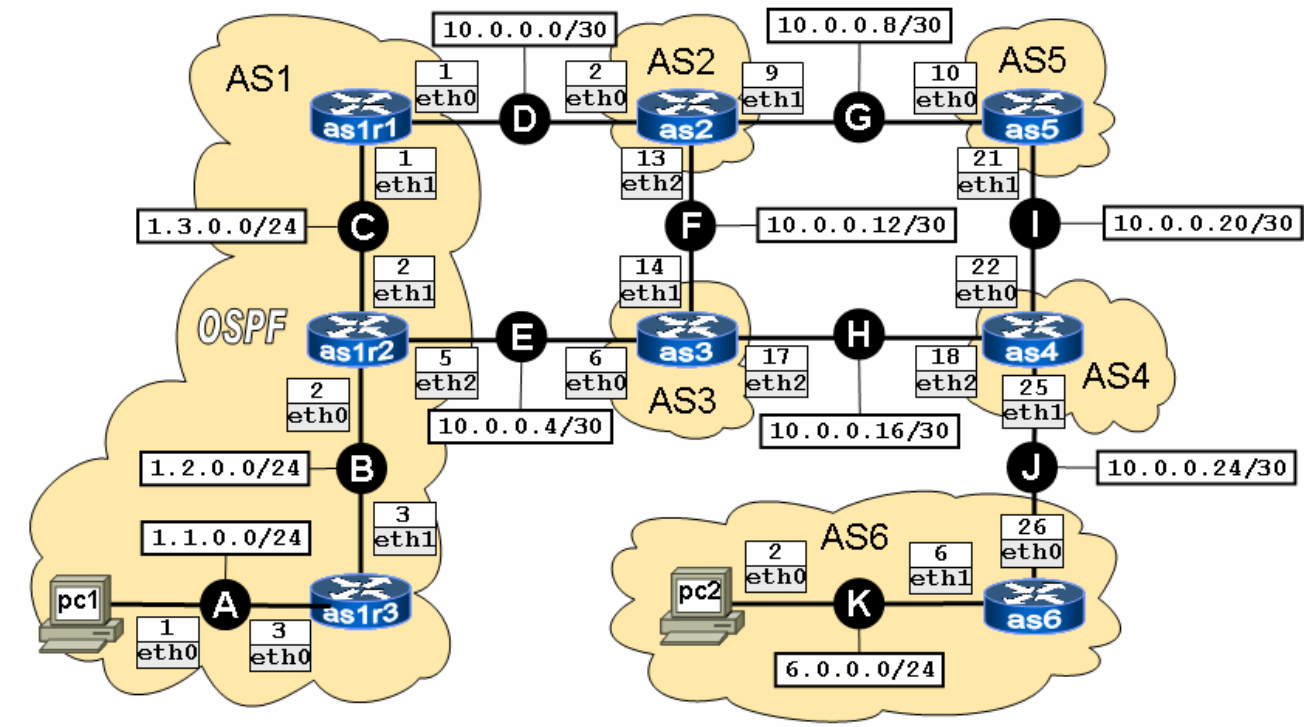
Upload procedure:

- Move into the parent directory of the directory `<lab-directory>` containing the lab and create a `.tar.gz` file containing the lab with the command: `tar czvf file.tar.gz <lab-directory>`
- Upload the `file.tar.gz` file in the form at `http://esame.inf.uniroma3.it/`

Cognome e nome: ..... Matricola: ..... PC:.....

Internet and Data Centers – Second Intermediate Test (29-11-2021) T2C1

Rules of the game: 1) Fill in this page with your last name, first name, university registration number and the number of the PC you are using now. 2) You can browse all the course material. 3) You cannot interact in any way with others. It would be considered a serious disciplinary issue if you do so.



Using Kathará, implement the network depicted in the above figure and described below.

- ☐ as1r1, as1r2, and as1r3 run the OSPF routing protocol among them (and exclusively among them).
- ☐ No device has the default route with exception of pc1 and pc2 which have the default gateway set.
- ☐ Links between different ASes correspond to eBGP peerings.
- ☐ AS1 announces in BGP only the route `1.0.0.0/8`. All routers announce the prefixes used for their eBGP peerings..

Goals:

- All hosts and routers can ping each other.

Upload procedure:

- Move into the parent directory of the directory `<lab-directory>` containing the lab and create a `.tar.gz` file containing the lab with the command: `tar czvf file.tar.gz <lab-directory>`
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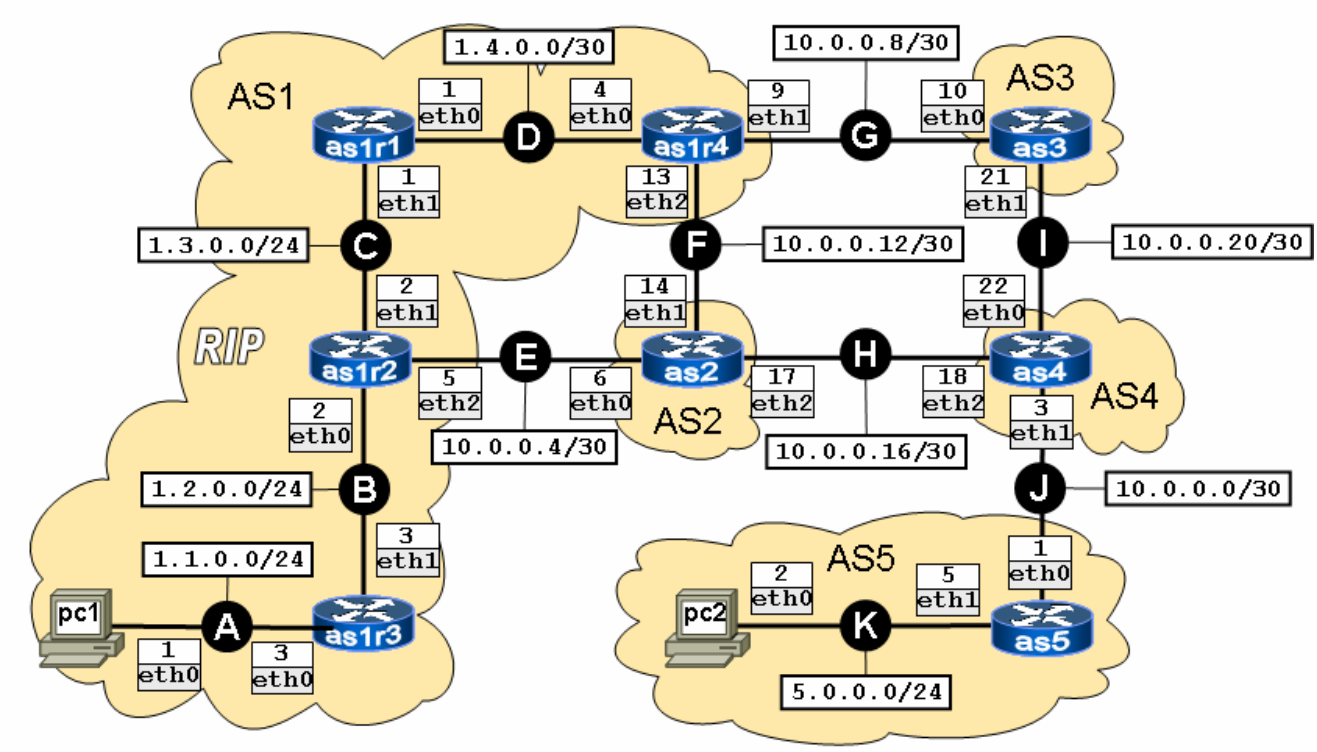
Cognome e nome: ..... Matricola: ..... PC:.....

Internet and Data Centers – Second Intermediate Test (29-11-2021) T2C2

Rules of the game: 1) Fill in this page with your last name, first name, university registration number and the number of the PC you are using now. 2) You can browse all the course material. 3) You cannot interact in any way with others. It would be considered a serious disciplinary issue if you do so.



Using Kathará, implement the network depicted in the above figure and described below.

- ☐ as1r1, as1r2, as1r3, and as1r4 run the RIPv2 routing protocol among them (and exclusively among them).
- ☐ No device has the default route with exception of pc1 and pc2 which have the default gateway set.
- ☐ Links between different ASes correspond to eBGP peerings.
- ☐ AS1 announces in BGP only the route `1.0.0.0/8`. All routers announce the prefixes used for their eBGP peerings.

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