

Internet Routing Protocol

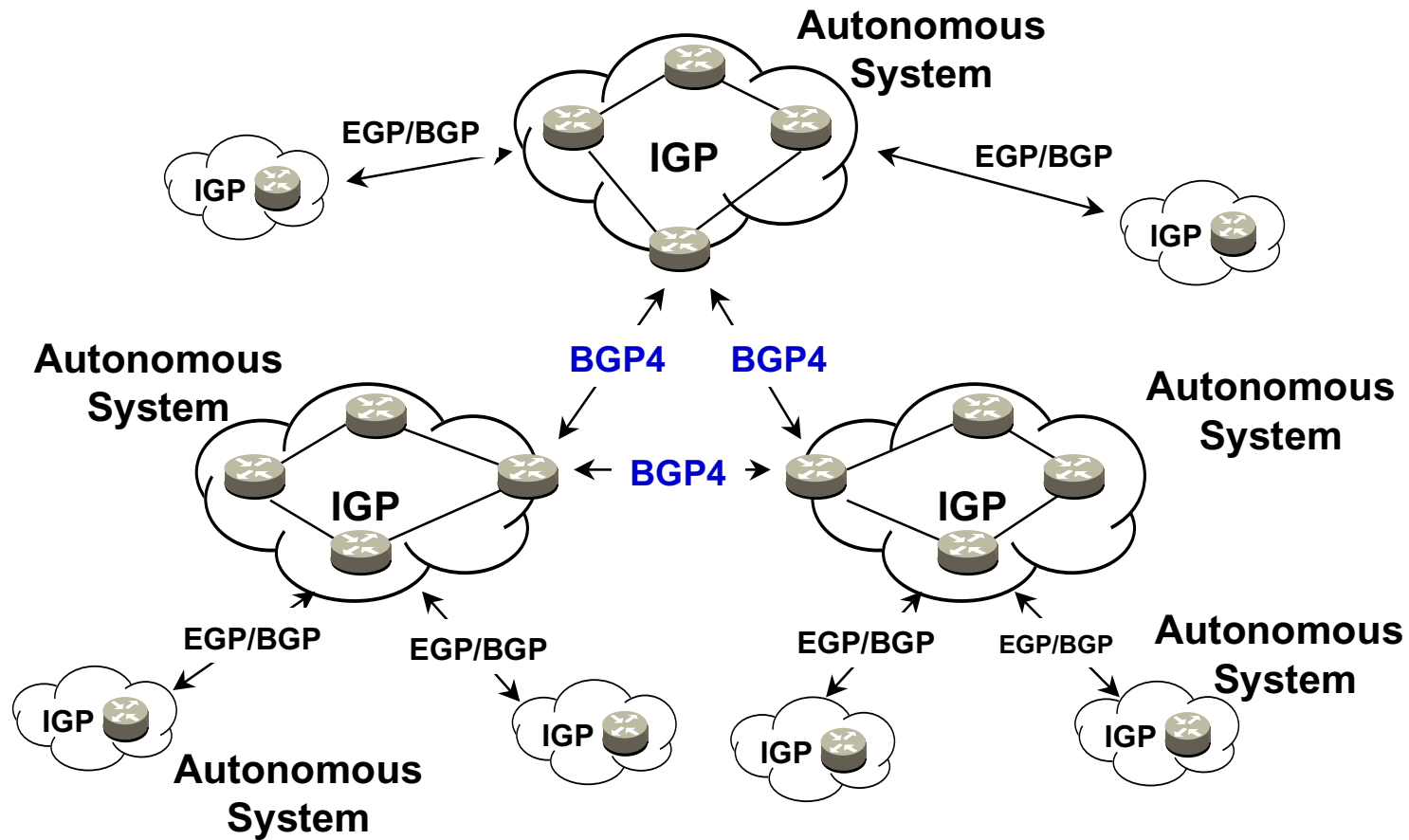
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Agenda

- **Basic concepts**
- **Routing components**
- **Classes of routing protocol**

Internet Routing Architecture



Autonomous System

- **AS is a collection of LANs and WANs and the interconnecting routers which under the control of one management authority**
- **The same AS runs the same Interior Gateway Protocol**
- **Why setting up AS? - establish a direct link to each other rather than route through the core Internet**
- **How to select AS? - register and get the AS number from NIC**

Gateway Protocol

- **Interior gateway protocol**
 - exchange routing information between routers within a single AS
 - RIP, RIP II, OSPF
- **Exterior gateway protocol**
 - collect network-reachability information for the AS
 - EGP, BGP

Routed and Routing Protocol

- **“tell neighbors about the my world”**
- **“distance” means routing metric measured by hop count**
- **“vector” means destination**
- **flood routing table only to its neighbors**
- **RIP is an example**
- **also knowns as Bellmann-Ford algorithm or Ford-Fulkerson algorithm**