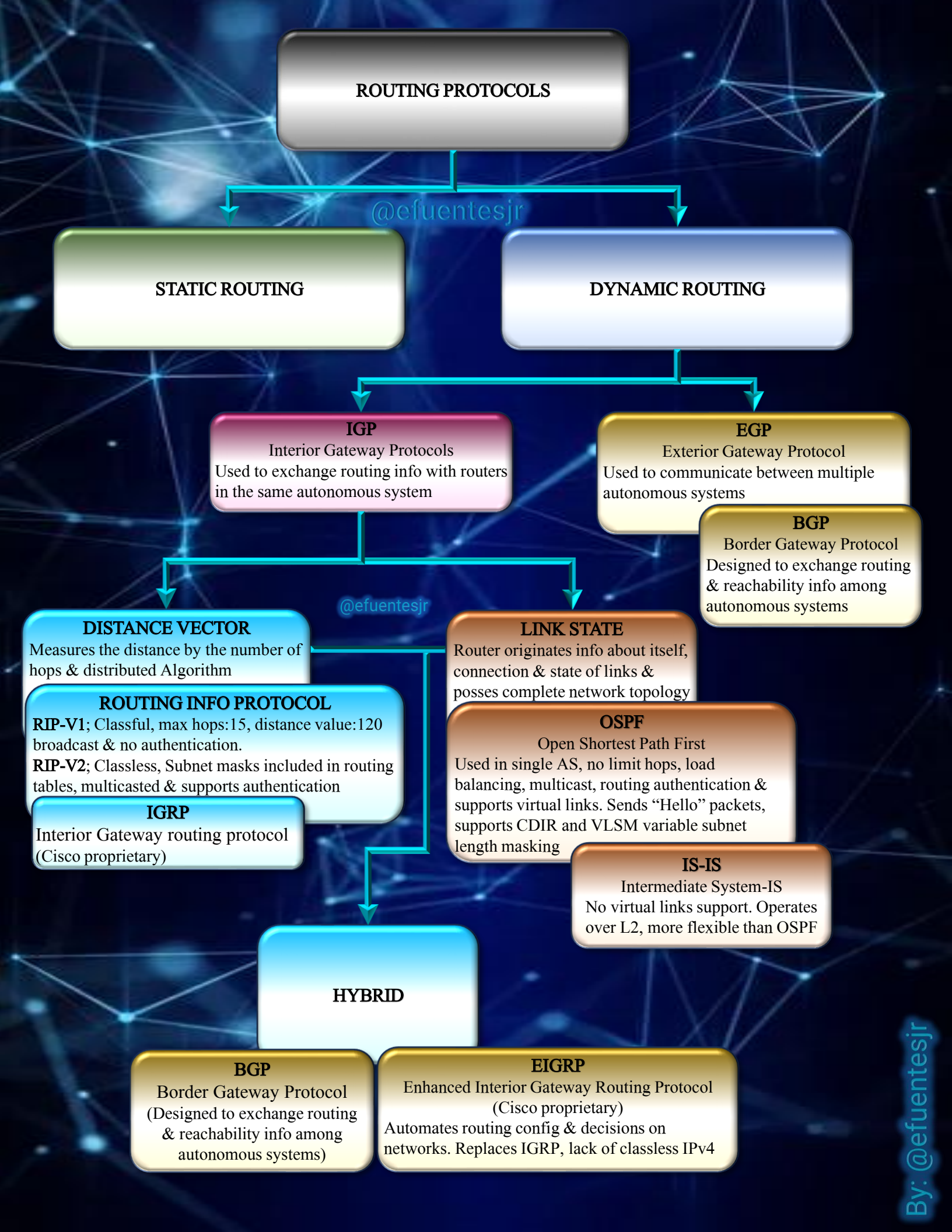
ROUTING PROTOCOLS
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STATIC ROUTING
DYNAMIC ROUTING
IGP
Interior Gateway Protocols
Used to exchange routing info with routers in the same autonomous system
EGP
Exterior Gateway Protocol
Used to communicate between multiple autonomous systems
BGP
Border Gateway Protocol
Designed to exchange routing & reachability info among autonomous systems
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DISTANCE VECTOR
Measures the distance by the number of hops & distributed Algorithm
LINK STATE
Router originates info about itself, connection & state of links & posses complete network topology
ROUTING INFO PROTOCOL
RIP-V1; Classful, max hops:15, distance value:120 broadcast & no authentication.
RIP-V2; Classless, Subnet masks included in routing tables, multicasted & supports authentication
IGRP
Interior Gateway routing protocol (Cisco proprietary)
OSPF
Open Shortest Path First
Used in single AS, no limit hops, load balancing, multicast, routing authentication & supports virtual links. Sends "Hello" packets, supports CDIR and VLSM variable subnet length masking
IS-IS
Intermediate System-IS
No virtual links support. Operates over L2, more flexible than OSPF
HYBRID
BGP
Border Gateway Protocol
(Designed to exchange routing & reachability info among autonomous systems)
EIGRP
Enhanced Interior Gateway Routing Protocol
(Cisco proprietary)
Automates routing config & decisions on networks. Replaces IGRP, lack of classless IPv4
By: @efuentesjr