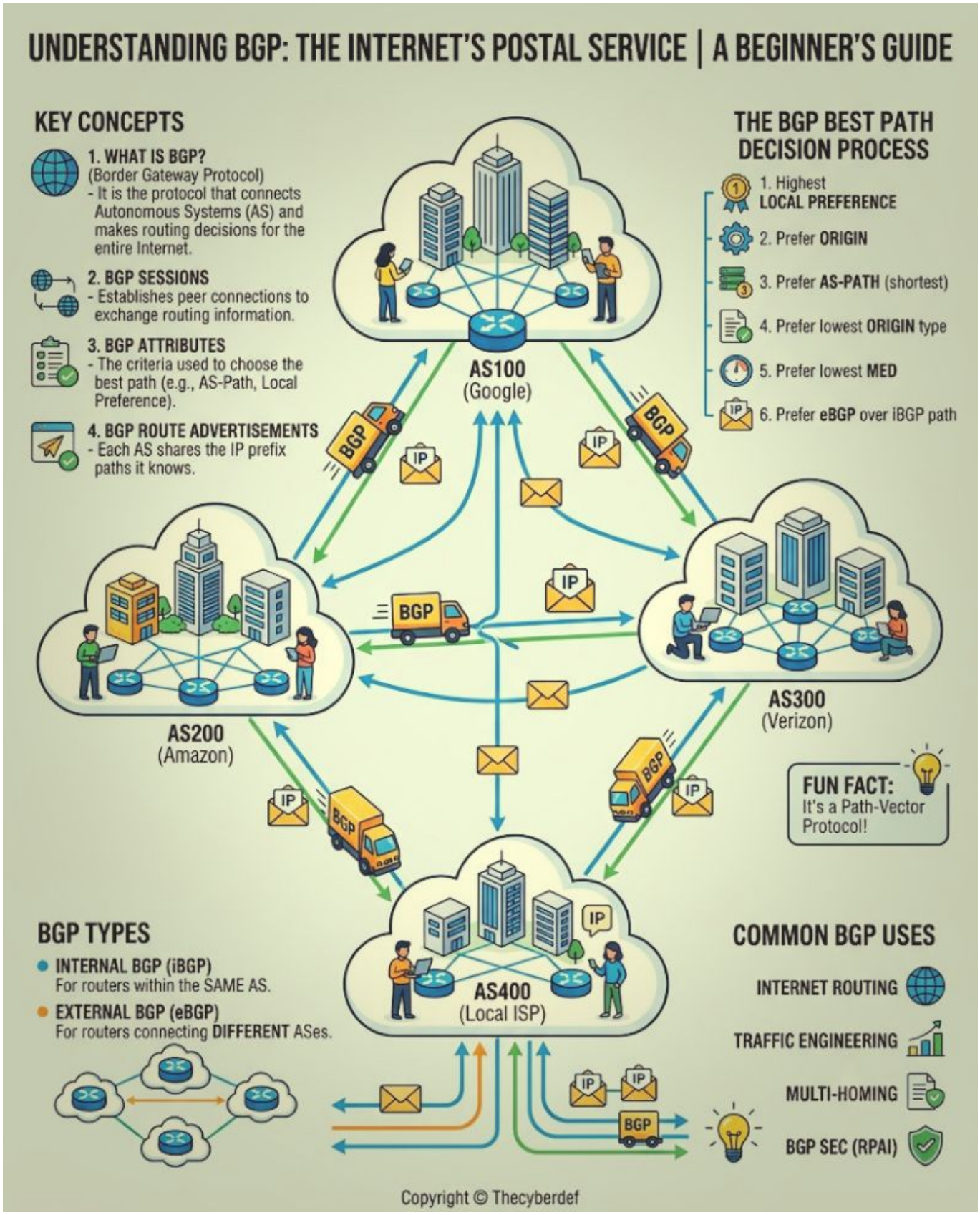
BGP


UNDERSTANDING BGP: THE INTERNET'S POSTAL SERVICE | A BEGINNER'S GUIDE
KEY CONCEPTS
1. WHAT IS BGP?
(Border Gateway Protocol)
- It is the protocol that connects Autonomous Systems (AS) and makes routing decisions for the entire Internet.
2. BGP SESSIONS
- Establishes peer connections to exchange routing information.
3. BGP ATTRIBUTES
- The criteria used to choose the best path (e.g., AS-Path, Local Preference).
4. BGP ROUTE ADVERTISEMENTS
- Each AS shares the IP prefix paths it knows.
THE BGP BEST PATH DECISION PROCESS
1. Highest LOCAL PREFERENCE
2. Prefer ORIGIN
3. Prefer AS-PATH (shortest)
4. Prefer lowest ORIGIN type
5. Prefer lowest MED
6. Prefer eBGP over iBGP path
AS100
(Google)
AS200
(Amazon)
AS300
(Verizon)
AS400
(Local ISP)
BGP
IP
FUN FACT:
It's a Path-Vector Protocol!
BGP TYPES
INTERNAL BGP (iBGP)
For routers within the SAME AS.
EXTERNAL BGP (eBGP)
For routers connecting DIFFERENT ASes.
COMMON BGP USES
INTERNET ROUTING
TRAFFIC ENGINEERING
MULTI-HOMING
BGP SEC (RPAI)
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