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- for correctness
 ex: loop elimination
- to implement policy - can do a lot more

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AS-PATH



• What?

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accumulate list of each AS that forwards route

- but what about aggregation?

• support sets and sequences in AS path (ex.)

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- BGP as a protocol
- mechanisms to control policy
- E-BGP vs. I-BGP
- Multihoming
- Other issues

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- control packet flow for efficiency
 - different links with diff bandwidth
 - load balancing

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Policy 1: LOCAL-PREF

- From local configuration
 - affects your AS only
 - (does not propagate to others)
 - can influence any prefixes
- Pick with path to prefer for a prefix
- Rule: BGP prefers paths with higher LOCAL-PREF



