


Transition requirements of
unmanaged scope networks

draft-ietf-ngtrans-unmanscope.txt

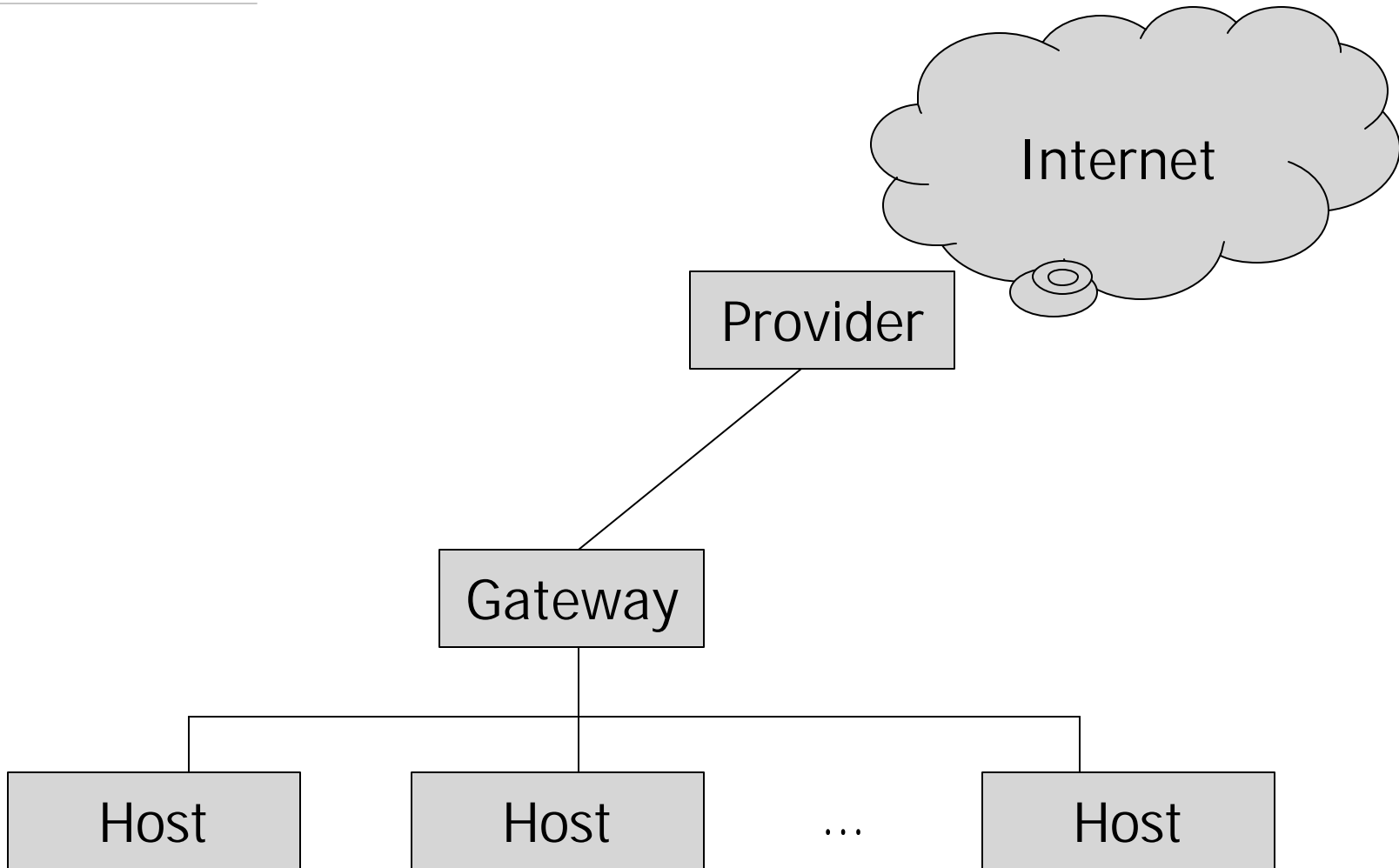
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Unmanaged scope network topology



Looking at requirements...

- ◆ Decided to not start from mechanisms
- ◆ Instead, start from applications
 - Local
 - Client
 - Server
 - Peer-to-peer
- ◆ Look at 4 types of requirements
 - Connectivity & addresses
 - Naming
 - Security

Local applications (e.g. file & print)

◆ Connectivity

- Local addresses

◆ Naming

- Typically ad hoc.
- Example: SLP

◆ Security

- Isolation of local traffic from the Internet.

Client applications (e.g. mail, web)

◆ Connectivity

- Global addresses, or possibly relay.

◆ Naming

- Access to a DNS resolver.
- In some cases, address to name mapping is required.

◆ Security

- Isolation of local traffic from the Internet.
- Privacy of the client.

Peer-to-Peer (e.g. SIP, Gnutella)

- ◆ Peer-to-peer
 - Global addresses, stable during a “session”
- ◆ Naming
 - Typically ad hoc.
- ◆ Security
 - Restrict communication to authorized peers.
 - Protect local applications
 - Possibly, privacy requirement.

Servers (e.g. web server)

◆ Connectivity

- Global addresses, stable enough for DNS publishing

◆ Naming

- Publish DNS records for the server.

◆ Security

- Restrict access to the authorized services.

Decision

◆ Working group item ?