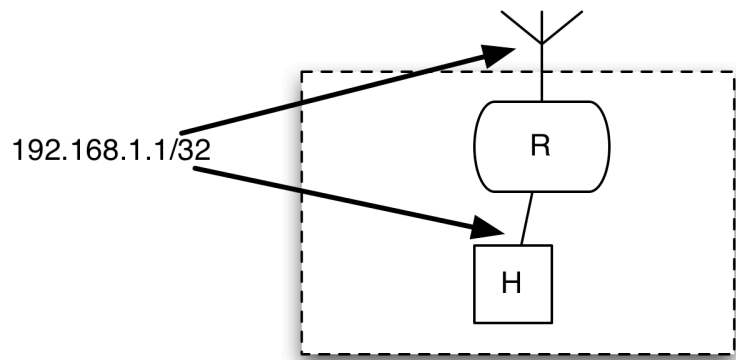




MANET Interface Configuration

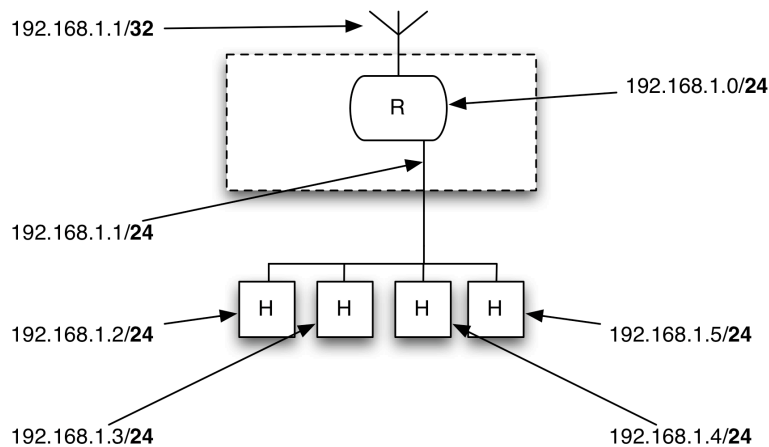
- Each MANET interface on a MANET router MUST be configured with an IP address which is unique, at least within the MANET.
- Each MANET interface MUST be configured with a prefix length of /32 (for IPv4) or /128 (for IPv6).

Example Configuration 1 – MANET Router and Single Host



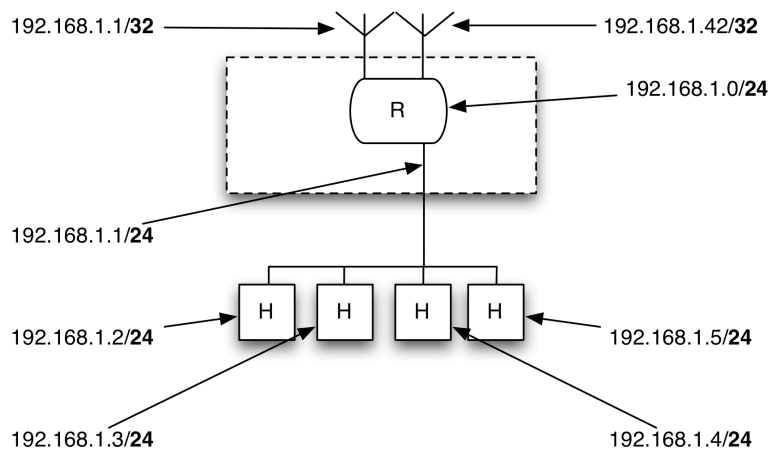
- IPv4 address 192.168.1.1/32 is assigned to the MANET node
- This IP address identifies **both** the MANET interface as well as the host
- The interface of the MANET router is configured as an "unnumbered interface"
- Traffic to the router component will typically be addressed to a well-known MANET Router multicast address

Example Config. 2 – MANET Router and Attached Network



- MANET router is delegated the IPv4 prefix 192.168.1.0/24
- This /24 prefix is assigned to non-MANET link, i.e. all interfaces are reachable within TTL=1
- MANET interface is configured as “unnumbered interfaces” and borrows 192.168.1.1 from its non-MANET link – but with a /32 prefix length!

Example Config. 3 – MANET Router with two MANET Interfaces and Attached Network

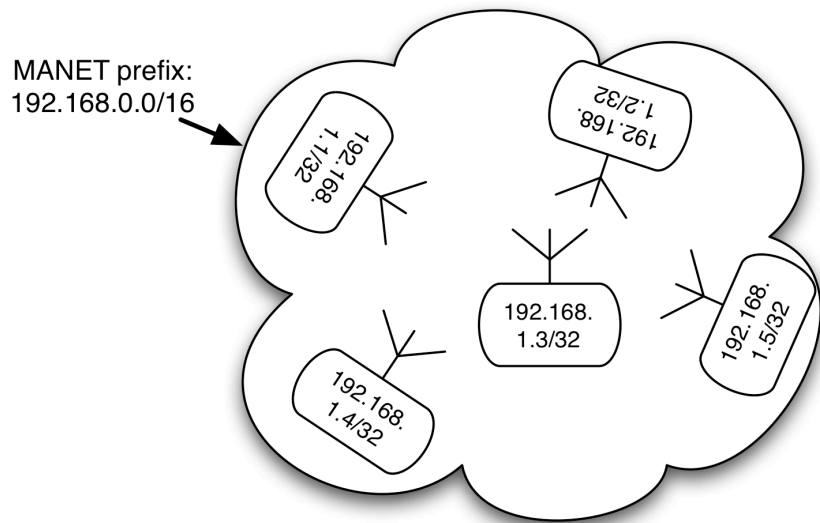


- Same as before
- The second MANET interface is configured using an unused IP address from within the same subnet prefix, in this case `192.168.1.42` — also configured with a prefix length of `/32`



The End

Backup – Aggregation



- IP addresses assigned to MANET routers within the same MANET may be extracted from within a larger prefix, e.g. 192.168.0.0/16