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Oracle VM VirtualBox: The Best Tool I Ever Used

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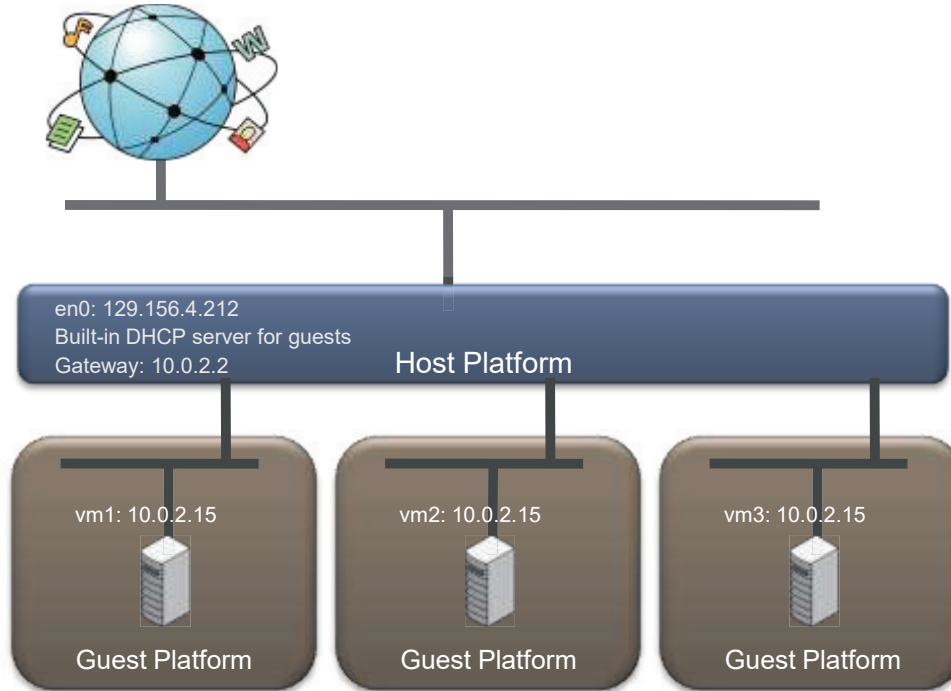
Director of Product Management

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VirtualBox NAT Networking

Zero Guest Configuration

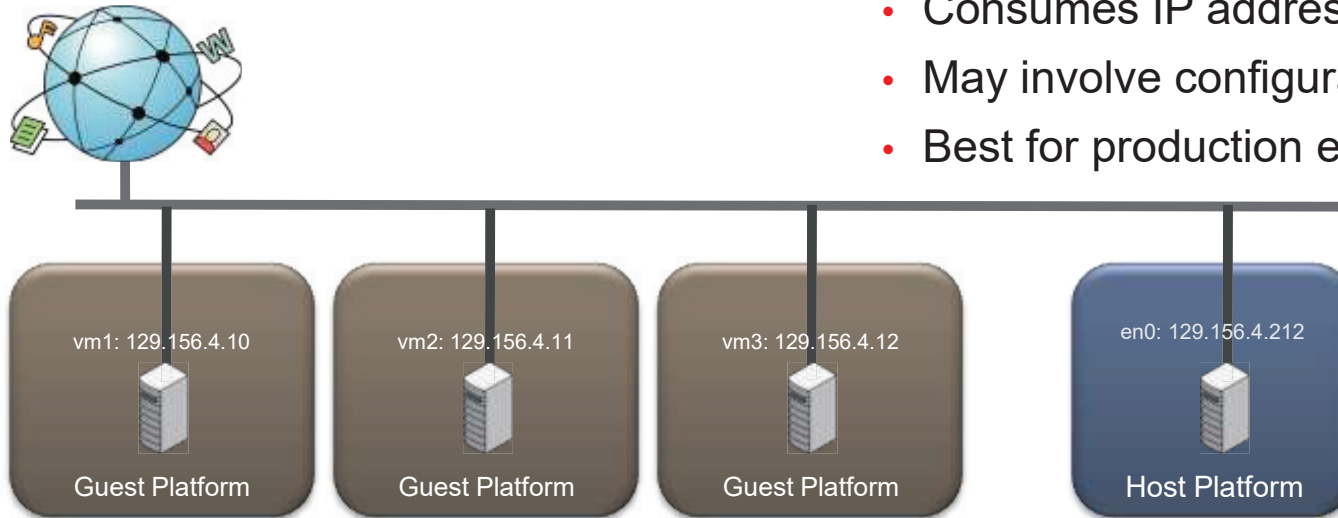


- Guests sit on own private LAN
- VirtualBox acts as a DHCP Server
- VirtualBox NAT engine translates addresses
- Destination servers see traffic originating from VirtualBox host
- No configuration needed on Host or Guest
- Great when guests are clients
- Not good for guests as servers

VirtualBox Bridged Networking

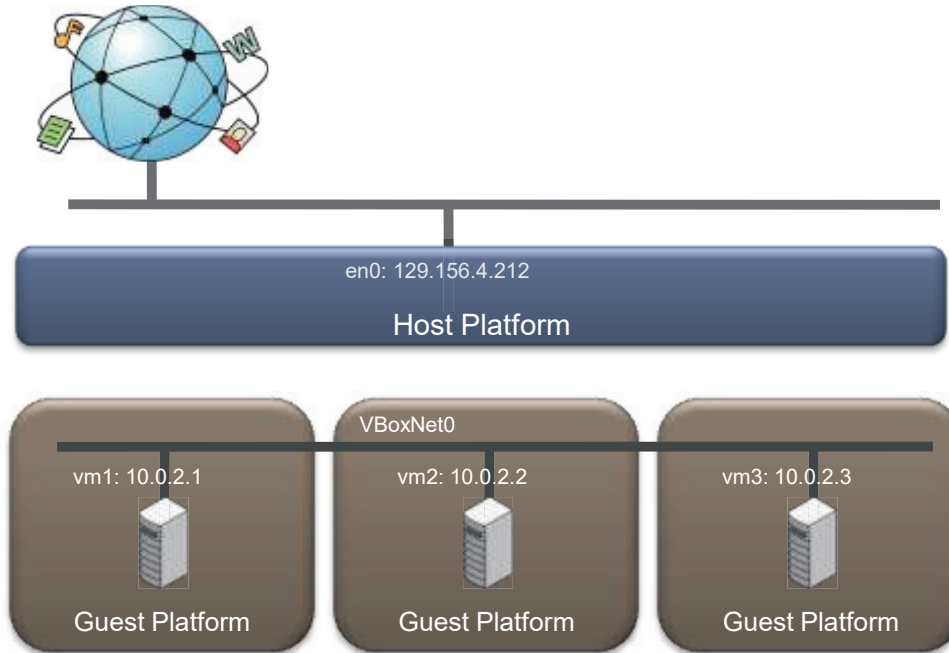
Guests are Full Network Citizens

- VirtualBox bridges to Host Network
- Good for clients or server guests
- Consumes IP addresses
- May involve configuration of guest
- Best for production environments



VirtualBox Internal Networking

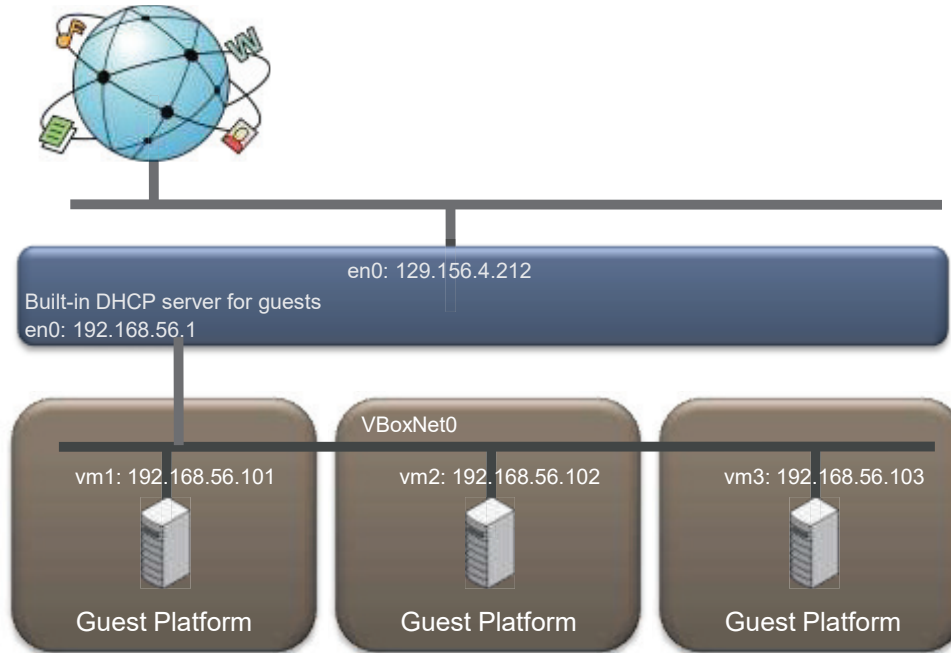
Totally Isolated Network



- Guests can see other guests on same internal network
- Host cannot see internal network
- Network configuration needed
- Functions even when Host disconnected.
- Can be used in conjunction with Bridged
- Good for multi-tier solutions

VirtualBox Host-only Networking

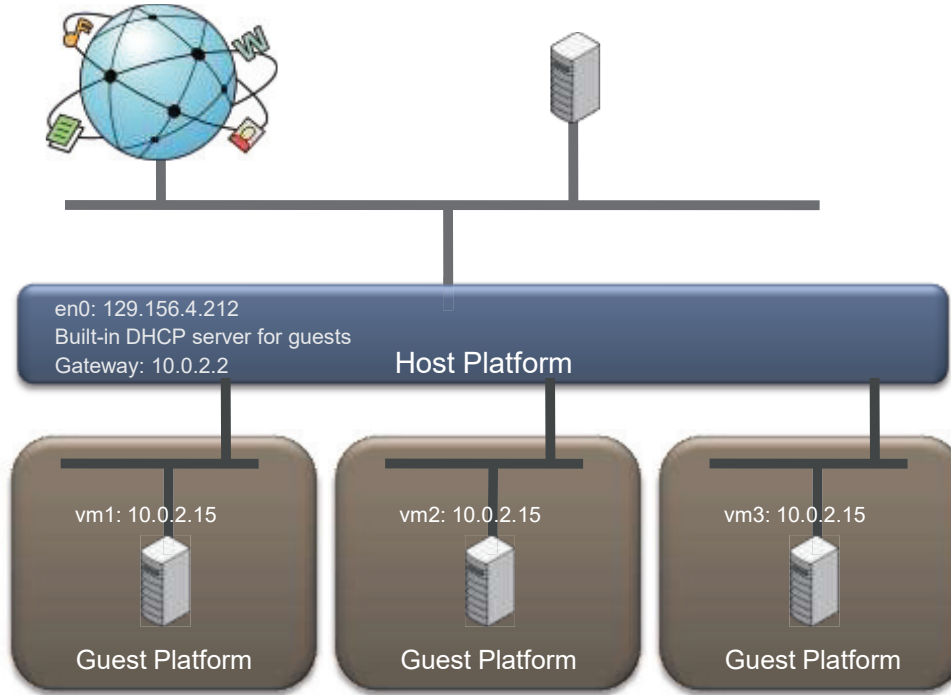
Convenient Internal Networking



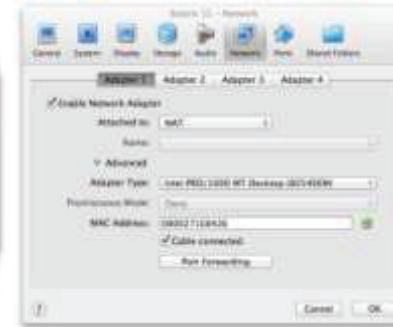
- VirtualBox creates a private internal network for guests and host
- Host sees a new software NIC
- VirtualBox provides a DHCP server
- Guests cannot see outside world
- Guests function even when host disconnected
- Great for development

VirtualBox Port Forwarding with NAT

For Mobile Server-based Guests



- Guests connect out via NAT as usual
- Clients on the network can connect to host:port and be mapped to a guest:port
- No guest reconfiguration required when host moves across networks



Guest	Protocol	Host IP	Host Port	Guest IP	Guest Port
Web Server	TCP		8080		80
ssh server	TCP		2222		22

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