

# Cisco Troubleshooting Cheat Sheet

Set Up	Setting Up R3 As DNS Server	Trouble Shooting	Show IP Interface
<div>R1 IP Conf</div> <div><pre>R1# conf t R1(config)# hostname R1 R1(config)# interface f 0/0 R1(config-if)# ip address 10.10.10.1 255.255.255.0 R1(config-if)# no shut R1(config-if)# do wr R1(config)# exit</pre></div>	<div><pre>R3# conf t R3# ip host R3.flackbox.lab 10.10.20.1</pre></div>	<div>Telnet</div> <div>used for interactive communication with another host</div> <div><pre>R1# telnet 10.10.20.1 53</pre></div>	<div>Show IP Interface</div> <div>best summery of the status protocol and IP addresses of your interfaces</div> <div><pre>R2# sh ip int brief</pre></div>
<div>R2 IP Conf</div> <div><pre>R2(config)# hostname R2 R2(config)# interface f 0/0 R2(config-if)# ip address 10.10.10.2 255.255.255.0 R2(config-if)# no shut R2(config)# interface f 1/0 R2(config-if)# ip address 10.10.20.2 255.255.255.0 R2(config-if)# do wr</pre></div>	<div><pre>R2# conf t R2(config)# ip domain lookup R2(config)# ip name-server 10.10.20.1</pre></div>	<div>Ping</div> <div>use to test the reachability of a host</div> <div><pre>R1# ping 10.10.20.1 R1# ping R3.flackbox.lab</pre></div>	<div>DNS Server</div> <div><pre>R3# sh run   include dns R3# R3(config)# ip dns server</pre></div>
<div>R3 IP Conf</div> <div><pre>R3(config)# hostname R3 R3(config)# interface f 0/0 R3(config-if)# ip address 10.10.20.1 255.255.255.0 R3(config-if)# no shut R3(config-if)# do wr</pre></div>	<div>Default Gateway</div> <div>set R1 and R2 to use R3 as default gateway</div> <div><pre>R1# conf t R1(config)# ip route 0.0.0.0 0.0.0.0 10.10.20.1 R1(config)# exit</pre></div>	<div>Traceroute</div> <div>for displaying possible routes and measuring transit delays</div> <div><pre>R1# traceroute 10.10.20.1</pre></div>	<div>Sh Run</div> <div>check the dns configuration</div> <div><pre>R3# sh run</pre></div>
	<div><pre>R2# conf t R2(config)# ip route 0.0.0.0 0.0.0.0 10.10.20.1 R2(config)# exit</pre></div>		<div>Name Server</div> <div>set R3 as dns server for R1</div> <div><pre>R1 (config)# ip nameserver 10.10.20.1 R1 (config)# no ip nameserver 10.10.10.1</pre></div>