Network Utilities Introduction

UFIT

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Network Utilities Introduction

The following commands invoke network utilities. These utilities can help diagnose from where telecommunication problems are originating when users have trouble connecting to a server.

nslookup

This utility can be run on our NERSP system. It will tell you the domain name if you give it the Internet Protocol (IP) address or it will tell you the IP address if you only know the domain name.

Example:

userid@nersp $ nslookup 128.227.4.1
Server: name.ufl.edu
Address: 128.227.128.24
Name: aero-wfl-001-n004.ns.ufl.edu
Address: 128.227.4.1
Or you could type:

userid@nersp $ nslookup yahoo.com
Server: name.ufl.edu
Address: 128.227.128.24
Non-authoritative answer:
Name: yahoo.com
Address: 204.71.177.35

ping

This utility can be used on NERSP, MSDOS, or NERMVS. Ping is an acronym for Packet Internet Groper, a utility that determines whether a specific IP address is accessible. It sends a packet to the specified address and waits for a reply.

Example:

userid@nersp $ ping www.ufl.edu
PING sp09.cns.ufl.edu: (128.227.175.139): 56 data bytes
64 bytes from 128.227.175.139: icmp_seq=0 ttl=255 time=0 ms
whois

Whois can be used from NERSP to discover more information about a remote server. It is also a useful tool to track down spammers. The information provided by the whois command can tell you to whom you can direct polite complaints about spam that may have originated at (or passed through) their site.

Example

userid@nersp $ whois domain.name

traceroute

This utility can be used on NERSP to give you the location of all the routers that it passes through. If there is a problem you will see it lock up at a site. This is called "timing out." If it locks up too long you can cancel by pressing <control-C>

Example:

userid@nersp $ traceroute 157.130.65.225

traceroute to 157.130.65.225 (157.130.65.225), 30 hops max, 40 byte packets

1 128.227.175.130 (128.227.175.130) 2 ms 1 ms 1 ms

2 uf-gateway.core.ufl.edu (128.227.254.129) 2 ms 1 ms 1 ms

3 uf-gateway.core.ufl.edu (128.227.254.129) 1 ms 2 ms 2 ms

4 internet-cis-fe60-b252.cns.ufl.edu (128.227.252.154) 299 ms * 172.17.12 3.21 (172.17.123.21) 8 ms

5 ixc000f00.jax.bellsouth.net (205.152.64.249) 10 ms 8 ms 8 ms

6* 157.130.65.225 (157.130.65.225) 9 ms *

Other Web-based utilities can be found at the URLs
below.

*Network status:*

http://www.cns.ufl.edu/info-services/tp/cns.html

*Charge list:*

http://www.cns.ufl.edu/chrglist

*Subnet manager's list:*

http://net-services.ufl.edu/ns/cgi-bin/subnet-form.cgi

**Your Comments are Welcome**

We welcome your comments and suggestions on this and all UFIT documentation. Please send your comments to:

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**UF Information Technology**

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