

TCP/IP for z/OS: Diagnostics and Debugging

Course Summary

Description

This course is designed to give you the skill required to diagnose and debug TCP/IP problems when operating on z/OS. This skill consists in developing knowledge of commands and tools together with a methodology in tackling TCP/IP problems. The lab activity and paper projects provide an opportunity to debug real problems.

Objectives

By the end of this course, students will be able to:

- Learn what commands are useful in a z/OS environment to control TCP/IP resources, the TELNET application, and debug TCP/IP simple network problems
- Learn which trace types (packet, TELNET, FTP, and so forth) are available in a z/OS environment and know:
 - What kind of information can be found in a trace
 - When to activate a trace
 - How to activate a trace
 - How to interpret a trace (for the packet trace there is a dedicated topic)
- Use the proper diagnostic technique to approach TCP/IP problems
- Describe the Syslog function in the UNIX environment and know how to configure the /etc/syslog.conf file
- Understand how to handle and modify the translate tables used by many TCP/IP applications that connect to remote systems which use ASCII character coding
- Activate and interpret several trace types, and debug some real problems which involve the use of various application protocols.

Topics

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| • Welcome | • FTP server |
| • Introduction | • FTP (continued) |
| • TCP/IP commands and utilities | • Debugging techniques |
| • TCP/IP commands and lab discovery | • Problem Diagnosis (problem 1) |
| • TCP/IP traces | • Problem Diagnosis (problem 2) |
| • Using IPCS with TCP/IP traces | • Problem Diagnosis (problem 3) |
| • Packet trace | • Problem Diagnosis (problem 4) |
| • OSA diagnosis lab | • Problem Diagnosis (problem 5) |
| • IP data flows | • OMPRoute |
| • Telnet | • OMPRoute |
| • Telnet problems | • Storage usage |
| • SyslogD and application traces | • Dump verification |
| • FTP | • Dump verification |
| • FTP client | |

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Course Summary (cont.)

Audience

This intermediate course is for anyone who works on TCP/IP networks and provides support in the resolution of communication problems on z/OS.

Prerequisite

You should have:

- Completed TCP/IP for z/OS Implementation Workshop (CB695)
- Knowledge of z/OS.

Duration

Four Days