

Deep Dive Packet Analysis with Wireshark

Why Take this Course?

Virtually every aspect of business today depends on the network. When the applications run slowly or don't work at all, everyone is looking to you, the network analyst, to fix it. In this course, you will learn how to get in the path of the packets and collect the correct data, then use that data to diagnose the problem using Wireshark. Instead of spending days or weeks trying to get to the root of the problem on your own, let us share the best practices with you.

The Instructor:

For the last 30 years, Mike Pennacchi has been troubleshooting networks and applications. He has taken his experience digging through packets to get to root of the most complex problems and put together training courses to help you do the same. Mike believes that it is not about keeping these techniques to himself. As a small group in a large industry, it is important to share this information for everyone's benefit.

Since 1997, Mike has been delivering courses at the Interop tradeshow. During that time, he has been ranked the number one instructor numerous times. Previous attendees have sent their employees and co-workers to his classes year after year. His combination of experience, passion for network troubleshooting, and desire to make the material fun and interesting will make this unlike any class you've taken.

Course Format:

This course is offered live online. The material will be presented via a screen share and live video. Questions are strongly encouraged! This is a great opportunity to not only learn new tips and techniques but meet others in your field.

Prior to the start of the class, the course material and trace files will be provided for download. Since this is a hands-on class, attendees are encouraged to install Wireshark on their computers prior to the start of class.

We will be using Zoom to present the course material. Loading the Zoom application on your computer prior to class will provide the best viewing experience. In order to view the presentation and use the analyzer, it is recommended that you have at least two monitors.

Course Outline:

The course will begin promptly at 8am PDT. Each of the sections will be covered using both presentation material and live examples. Trace files will be provided to illustrate the Wireshark skills. There will be two short breaks and one 30-minute break for lunch.

- Introduction
- Getting in the Path of the Packets
- Configuring the Capture
- Long Term Captures
- Timing and Time Column
- Wireshark Fields
- Statistics
- TCP Settings and Filters
- Profiles
- TCP Profile
- I/O Graphs
- TCP Graphs
- VoIP Analysis
- Display Filter Scripts

Goals:

At the conclusion of this course, you will be able to:

- Determine where to best capture the packets
- Know the best method to acquire the packets
- Be able to setup a long-term packet capture
- Configure capture filters
- Open the trace file in Wireshark
- Apply display filters
- Understand profiles and how to create them
- Create I/O and TCP graphs
- Analyze VoIP traffic

Course Cost:

\$425 per attendee, due at time of registration

Certificate of Completion:

Upon completion of the course, each registered attendee will receive a certificate of completion. Be sure to register with the name you would like to appear on the certificate. This will be sent in an electronic form after the conclusion of the class.

Cancellation Policy:

Students are required to pay by credit card or agency purchase order at the time of course registration in order to secure their place in the class. Class size is limited, so please register early.

Any course materials required are provided five days prior to the course start date. There are no refunds for course cancellation after the course materials have been provided.

Students who wish to cancel their course registration should notify Network Protocol Specialists, LLC (NPS) in writing.

If the cancellation request is received **six or more days before the course start date**, NPS will remove the student from the course and refund the course registration, **less a \$50.00 cancellation fee.**

If the cancellation request is received **five or less days before the course start date, no refund will be given.** NPS online courses are repeated on a regular schedule. A student may transfer registration to another course start date that is more convenient.

NPS reserves the right to cancel a course up to five days prior to the course start date. Should NPS cancel a course, the student will be notified and given the option of transferring their registration to another course start date or receiving a refund of their course registration.