



OVERVIEW

Course Level:

Intermediate

Format:

Four half-days online with a live instructor

Course Code:

TRN-nG1-TCP/IP-Triage

Prerequisite:

- Attendees should have NETSCOUT® Certified Associate certification. Complete either of these requirements to attain NCA certification.
 - nGeniusONE® Essentials
 - nGeniusONE Service Assurance platform On-Demand Learning program
- Students should have a working knowledge of LAN technologies and topologies, the OSI reference model, and the function of network devices.
- A basic understanding of unified communications (voice and video) technologies and protocols, and quality measurements such as jitter, packet loss, latency and MOS, is also helpful.

nGeniusONE TCP/IP Triage

Course Description

The nGeniusONE TCP/IP Triage course is an instructor-led training course for users using the nGeniusONE Service Assurance platform. Students should come to the course with a basic understanding of the nGeniusONE platform. The course is designed to provide intermediate level hands-on training using real-life scenarios that simulate issues that may be encountered in modern TCP/IP based networks.

The training uses common data center protocols and topologies to present monitoring and troubleshooting techniques using nGeniusONE. The course describes the applications and presents suggested workflows for triaging typical problems using all of the tools available in the nGeniusONE platform, including the Dashboard, Service Monitors, Service Enablers, Session Analysis, and Packet Analysis.

This training places strong emphasis on Packet Analysis within the nGeniusONE decode structure. Students will start with basic fundamentals and work through advanced concepts of deep packet inspection.

Course Objectives

- Describe and analyze basic packet structure
- Use nGeniusONE workflow analysis to Identify key functions of the OSI Model
- Demonstrate advanced solution workflows to isolate network problems
- Access session and packet decode data to validate the root cause of problems
- Increased awareness and understanding of IP, TCP, and Application Layer analysis
- Demonstrate strong understanding of Deep Packet Inspection (DPI)

Course Syllabus:

Session One

Course Introduction

nGeniusONE Intro to Deep Packet Inspection

- Protocol architecture
 - Troubleshooting workflows
 - Hands-on exercises (2)
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Protocol architecture

- OSI reference
 - Troubleshooting workflows
 - Hands-on exercise
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Internet Protocol, Digging into IP

- Protocol architecture
 - Troubleshooting workflows
 - Hands-on exercises (3)
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Session Two

Service Enablers - DHCP and DNS

- Protocol architecture
 - Troubleshooting workflows
 - Hands-on exercises (3)
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UDP – User Datagram Protocol

- Protocol architecture
 - Troubleshooting workflows
 - Protocol Architecture
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TCP – Transmission Control Protocol

- Troubleshooting workflows
 - Hands-on exercises (4)
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Certification

Exam Code: nG1-TCP/IP Triage

Format: Online, multiple choice

Availability: Worldwide, English

Exam Fees: Included with course registration fee

Enrollment

All students who register for and successfully complete the nGeniusONE TCP/IP Triage course are eligible to take the corresponding nG1-TCP/IP TRIAGE certification exam.

Preparation

The exam is designed to measure students' retention of key lesson objectives in the course. When preparing for the exam, students are encouraged to pay close attention in class and to actively participate. Students may reference their student guides during the exam.

Procedure

The exam consists of twenty-five multiple choice questions chosen from a larger pool of questions. Candidates have 90 minutes to complete the exam. A score of seventy percent (18 correct answers) is required to pass. If a candidate does not pass on the first try, two additional retakes are allowed.

For more information about NETSCOUT University's Certification Program, please [click here](#) to access the program website.



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