## Szkolenie: F5 Networks
### Troubleshooting BIG-IP

<table>
<thead>
<tr>
<th>FORMA SZKOLENIA</th>
<th>MATERIAŁY SZKOLENIOWE</th>
<th>CENA</th>
<th>CZAS TRWANIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stacjonarne</td>
<td>Tradycyjne</td>
<td>8700 PLN NETTO*</td>
<td>2 dni</td>
</tr>
<tr>
<td>Stacjonarne</td>
<td>Tablet CTAB</td>
<td>9100 PLN NETTO*</td>
<td>2 dni</td>
</tr>
<tr>
<td>Metoda dlearning</td>
<td>Tradycyjne</td>
<td>8700 PLN NETTO*</td>
<td>2 dni</td>
</tr>
<tr>
<td>Metoda dlearning</td>
<td>Tablet CTAB</td>
<td>8700 PLN NETTO*</td>
<td>2 dni</td>
</tr>
</tbody>
</table>

* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

### LOKALIZACJE
- Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00
- Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

### DOSTĘPNE TERMINY
- 2020-03-09 | 2 dni | Warszawa
- 2020-03-09 | 2 dni | Warszawa
- 2020-05-18 | 2 dni | Kraków
- 2020-05-18 | 2 dni | Kraków

### Cel szkolenia:
This course gives networking professionals hands-on knowledge of how to troubleshoot a BIG-IP system using a number of troubleshooting techniques as well as troubleshooting and system tools.

This course includes lectures, labs, and discussions.

Throughout this course you will have access to a BIG-IP that uses a typical Internal-External VLAN architecture with a pool of servers (HTTP, HTTPS, SSH, FTP, etc) along with web application servers. In the lab for this module, you will license the BIG-IP, set up the Internal and External VLANs, and create the Pools and Virtual Servers that you will use as part of your troubleshooting exercises.

In addition to the topics above, lab exercises will provide a chance to practice troubleshooting problems using the BIG-IP information, troubleshooting methodology, and tools that you have learned.

### Audience:
This course assumes that you have successfully completed the Administering BIG-IP course, or equivalent, and have hands-on experience working in a production BIG-IP environment for several months. You should have a solid understanding of the environment in which the BIG-IP is deployed.

This course is meant for BIG-IP administrators, network engineers, applications engineers, etc., who will be responsible for troubleshooting problems associated with their BIG-IP system.
Course is based on the system version v14.

Plan szkolenia:

- Setting Up the BIG-IP System
  - Introducing the BIG-IP System
  - Initially Setting Up the BIG-IP System
  - Archiving the BIG-IP Configurations
  - Leveraging F5 Support Resources and Tools
- Reviewing Local Traffic Configuration
  - Reviewing Nodes, Pools, and Virtual Servers
  - Reviewing Address Translation
  - Reviewing Routing Assumptions
  - Reviewing Application Health Monitoring
  - Reviewing Traffic Behavior Modification with Profiles
  - Reviewing the TMOS Shell (TMSH)
  - Reviewing Managing BIG-IP Configuration Data
- Troubleshooting Methodology
  - Troubleshooting Methodology
  - Troubleshooting Methodology Steps
  - Step 1: Define the Problem
  - Step 2: Gather Information
  - Step 3: Define Hypotheses
  - Step 4: Develop a Test Plan
  - Steps 5 and 6: Implement the Plan and Observe the Results
  - Step 7: Repeat as Necessary
  - Document Everything
  - Putting the Troubleshooting Steps to Use
- Working with F5 Support
  - Leveraging AskF5
  - Finding Resources on DevCentral
  - Using the BIG-IP iHealth System
  - Working with F5 Technical Support
  - Running End User Diagnostics (EUD)
  - Requesting Return Materials Authorization
  - Understanding F5’s Software Version Policy
Managing Upgrades and Hotfixes
Managing the BIG-IP License for Upgrades
Managing BIG-IP Disk Space
Upgrading BIG-IP Software

Product Architecture
- Architecture Overview
- AOM
- Switch Fabric
- Host Subsystem

Troubleshooting – Bottom to Top
- Host Architecture
- Layer 1/Layer 2 Tools
- Layer 2/Layer 3 Tools
- Layer 3 Tools
- Linux Tools
- Memory and CPU
- watch
- Additional tmsh commands
- End-User Diagnostics (EUD)

Troubleshooting Tools
- tcpdump
- Wireshark
- Fiddler
- diff
- KDiff3
- ssldump
- cURL

Using System Logs
- System Log Configuration
- Log Files
- BIG-IP Daemons
- Triggering an iRule
- Deploying and Testing iRules

Troubleshooting Lab Projects
- Network Configurations for Projects

Additional Training and Certification
Getting Started Series Web-Based Training
- F5 Instructor Led Training Curriculum
- F5 Professional Certification Program

Wymagania:

Before attending the Troubleshooting, ASM, DNS, APM, AAM, AFM, VIPRION or iRules courses is mandatory:

- to take part in the BIG-IP Admin or LTM course
- or possession of F5-CA or F5-CTS LTM certification
- or pass special assessment test with score 70% or greater.

To take assessment test:

**Step 1**: get an account on F5 University https://university.f5.com
**Step 2**: goto My Training and find Administering BIG-IP Course Equivalency Assessment
Take the test. Pass mark is 70%

**Step 3**: take a screen shot as proof of results
If this prerequisite is not met, F5 Networks have the right to refuse entry to the class.

Poziom trudności

Certyfikaty:

The participants will obtain certificates signed by F5 Networks (course completion).

Prowadzący:

Certified F5 Networks Trainer.