

Airlock WAF Engineer Training

1. Training goals

After completing this training, participants have an understanding of the general concept of Web Application Firewalls, and specifically of Airlock WAF. They know how to install, configure and administrate Airlock WAF. They also have a good understanding of the various configuration possibilities, and know how these affect a web application's security.

2. Participants

- system administrators
- network technicians
- system integrators
- security engineers
- system operator

3. Content

- presentation of Airlock WAF, the concept and an overview
- presentation of Airlock WAF, architecture, internals, modules, specifically:
 - filter
 - rewrite
 - redirect
 - allow rules
 - deny rules
 - URL Encryption
 - Smart Form Protection
 - clustering
 - Expert Settings
 - authentication service (Airlock Login)
 - reports
 - ICAP
 - SOAP/XML
 - Application Portal
 - SSL-VPN
- operation and maintenance
- integration of Airlock WAF - connection to application
- filter assessment and configuration
- hands-on platform build up and installation
- analysis of a real life application
- design of the configuration
- creating a connection
- testing of the filters
- concept design of the authentication
- authentication enforcement
- integration of Airlock Login
- implementation
- concept of operation
- setup of a HA failover cluster

4. Prerequisites

Basic knowledge of the following topics is required:

- network concepts
- authentication/authorization
- SSL certificates
- regular expressions
- technical expressions like:
 - Ethernet, TCP/IP, firewall, routing
 - DNS
 - HTTP, HTTPS
 - SSL, encryption
 - HTML, CSS, JavaScript
 - SSH, Windows

5. Administrative information

The training is taught by a member of Ergon's Airlock Professional Services team. It consists of 3 days, including extensive hands-on practical exercises and takes place at Ergon's premises at Merkurstrasse 43, 8032 Zurich.

6. Certification

To achieve AWE certification, participation in the Airlock WAF Engineer (AWE) training is recommended but not mandatory. Typical certification candidates are system administrators, network engineers and system integrators.

The examination lasts 60 minutes and usually takes place during the last day of the AWE training. It consists of a multiple choice test and covers all topics from the AWE training. Upon successful completion of the certification, the participant will receive his or her Airlock WAF Engineer (AWE) certificate, which is valid for 3 years.

For further information on Airlock Suite refer to <https://www.airlock.com> and for information on upcoming trainings refer to <https://www.airlock.com/en/services/academy/>.