



WALLIX ACADEMY CERTIFICATION COURSES



About WALLIX

WALLIX is a European cybersecurity software publisher **expert in Access and Identity**. It provides cybersecurity solutions for simple, secure and trusted access, to protect digital and industrial environments. WALLIX solutions prioritize cybersecurity, usability and regulatory compliance.

The WALLIX solution suite is **flexible, resilient, quick to deploy** and easy to use, and the company is recognized by the industry analysts such as Gartner, Kuppingercole, Forrester or Frost & Sullivan as **a leader in the field of privileged access management**.

Our training courses are accessible to people with disabilities. For further information, or if you need to make any special arrangements, please contact our disability advisor at the following address: academy@wallix.com

Some key figures in 2023:

1050

Certified Trainees

677

Trainees

96%

Satisfaction rate

We deliver certificates, which are valid **for 2 years**.

Some recognitions:



In 2023, WALLIX is recognized as **"Overall Leader"** for the 4th consecutive year in the Leadership Compass report by analyst firm **KuppingerCole**.



In 2023, WALLIX is named a **Visionary in the Gartner® Magic Quadrant™** for Privileged Access Management.



In 2022, WALLIX receives the **Customer Value Leadership Award**. Frost & Sullivan recognizes **WALLIX PAM** as the **best PAM solution** on the market in terms of cost, simplicity and flexibility.



In 2023, WALLIX is named **Contenders** in the Forrester Wave evaluation, with significant progress since its position in 2020.

WALLIX ACADEMY

Certification Courses

The WALLIX Academy is dedicated to end-user and partner training by using WALLIX solutions, creating, and running a Certified member community.

WALLIX offers 3 levels of training (administrator, professional and expert) for all WALLIX customers and partners. Attending these trainings will allow your teams to master the different technical and functional aspects of WALLIX solutions.

An e-learning offer is coming soon.

	PAM (P)	PEDM (E)	IDaaS (I)	PAM-OT (OT)
Available WALLIX Certification courses	WALLIX Bastion	WALLIX BestSafe	WALLIX Trustelem	WALLIX PAM4OT
Certification training WALLIX Certified Administrator - WCA	●			
Certification training WALLIX Certified Professional - WCP	●	Coming soon		
Online Certification training WALLIX Certified Professional - e-WCP	●		●	●
Certification training WALLIX Certified Expert - WCE	●			

Our certification courses can be delivered as:

- **Onsite training** : inter or intra-company, handling a maximum of 6 trainees.
 - **Remote training** : we require the use of Microsoft Teams, handling a maximum of 6 trainees.
- Please check the technical requirements according to training.

Course dates are available on

<https://www.wallix.com/fr/wallix-academy/>

To register to a training course, send an email* to:

academy@wallix.com

*With your contact details and the chosen training schedule.

Privileged Access Management



WALLIX PAM

- WALLIX CERTIFIED ADMINISTRATOR / **WCA-P**
- WALLIX CERTIFIED PROFESSIONAL / **WCP-P**
- WALLIX CERTIFIED PROFESSIONAL / **eWCP-P**
- WALLIX CERTIFIED EXPERT / **WCE-P**

WALLIX CERTIFIED ADMINISTRATOR / WCA-P

WALLIX PAM

This training is intended for engineers and technicians of WALLIX end-users and reseller partners who want to understand our WALLIX PAM solution and to be in a position to manage it in day-to-day activities.

PREREQUISITES:

The trainee should be acquainted with **SSH, RDP, proxy concepts, and Linux environments**. System, network and infrastructure knowledge will enable the trainee to handle the WALLIX Bastion with greater ease.

This training focuses on the WALLIX Bastion solution administration tasks and does not deal with its installation and deployment.

DESCRIPTION :

This **1-day technical training** allows you to understand WALLIX Bastion solution and to be able to handle it in day-to-day activities. It provides the necessary means to understand the **basic concepts and functionalities** for its **maintenance** and **basic administration**.

EVALUATION :

At the beginning of the training, the trainee needs to fill out a pre-test. Then, through oral questions, MCQ, and hand-on labs, the Training Instructor can assess the trainee by an active participation.

At the end of the training, the trainee has to take a MCQ exam.

A 70% score is required to get the WALLIX Certified Administrator - PAM (WCA-P) certification.

TRAINING CONTENT

I. INTRODUCTION

- WALLIX & Portfolio Presentation
- PAM Introduction

II. WALLIX BASTION SESSION MANAGER

- Global concepts
- Profiles & Roles
- Targets management
- Target accounts management
- Authorizations management
- Checkout Policy
- Applications management
- Session probe & Session recording

III. WALLIX BASTION PASSWORD MANAGER

- Checkout policy Configuration
- Password change Policy
- Other ways to change target accounts password
- Break glass scenario

IV. APPROBATION & AUDIT

- Approval
- Audit

V. EXTENDED CONFIGURATION

- SIEM/SNMP
- CSV
- External authentication
- Access Manager
- Session Audit from Access Manager

VI. MAINTENANCE

- Services Admin/Users logins
- CLI Commands
- Update/Upgrade management
- Installing/Uninstalling a hotfix

VII. SUPPORT

- Product & licensing
- WALLIX ressources
- Logs files
- Support Customer Success: opening a case

WALLIX CERTIFIED PROFESSIONAL / WCP-P

WALLIX PAM

This training is intended for engineers and technicians of WALLIX end-users and reseller partners who want to master the configuration, the deployment and the administration of WALLIX Bastion solution.

PREREQUISITES:

The trainee should be acquainted with **SSH, RDP, proxy concepts, and Linux environments**. System, network and infrastructure knowledge will enable the trainee to handle the WALLIX Bastion with greater ease.

This training focuses on the installation, configuration, deployment, and day-to-day administration.

DESCRIPTION :

This 3-days technical training allows you to discover and take control of our WALLIX Bastion solution. It provides the necessary means to understand the basic concepts and functionalities for deployment in a classical architecture.

EVALUATION :

At the beginning of the training, the trainee needs to fill out a pre-test. Then, through oral questions, MCQ, and hand-on labs, the Training Instructor can assess the trainee by an active participation.

At the end of the training, the trainee has to take a MCQ exam.

A 70% score is required to get the WALLIX Certified Professional - PAM (WCP-P) certification.

TRAINING CONTENT

I. TRAINING & CERTIFICATION COURSES

- Training objectives
- Training Indicative Agenda
- WALLIX Academy platform
- WCP Certification Exam

II. COMPANY & PRODUCTS

- WALLIX Company
- WALLIX Products

III. INSTALLATIING & HANDLING THE WALLIX BASTION

- Installing the WALLIX Bastion appliance
- The Bastion in the infrastructure
- Initial configuration
- First connection
- Changing the admin password
- Installing the license
- Configuring the network
- Configuring the time zone & NTP servers
- Adding Bastion administrator
- Backing up the configuration
- Restoring the configuration
- Backing up the Bastion version du Bastion
- Updating the Bastion version
- Rollback to the previous Bastion version
- Installing/Uninstalling a hotfix
- Monitoring & logs
- Configuring an email server and enabling the notifications
- Bastion main components & services**
 - o Lab 1 : Installing and handling WALLIX Bastion

IV. WALLIX SESSION MANAGER

- Global concepts
- Managing User/Primary account (Local Authentication)
- Managing Primary User Group
- Managing Devices
- Managing Secondary/ Target account (Local Domain Account)
- Adding Target Group
- Adding an authorization
- Connecting to a server using RDP
- Connecting to a server using SSH
- Changing the Disclaimer message
 - o Lab 2.1 : RDP and SSH connections
- Managing applications

AppDriver

- o Lab 2.2 : Application

Managing SSH startup scenario

- o Lab 2.3 : SSH startup scenario

Managing Primary Users with external authentication

- o Lab 2.4 : External authentication

Managing Secondary/ Target account: Global Domain Account

- o Lab 2.5 Global domain account

Import/Export

Discovery

- o Lab 2.6 : Discovery

RDP connection policy & Session Probe

- o Lab 2.7 : Session Probe

V. WALLIX PASSWORD MANAGER

Global Concepts

Managing the Checkout Policy

Adding an account for Password management

Enabling the Password Checkout

Password Checkout – User side

- o Lab 3.1 : Password Checkout

Adding Password Change Policy

Password Change Plugins

Managing Password Change Policy

Enabling Password Change for a secondary account

Password change at check-in

Password Checkout – Administrator side

Break Glass

Local Password Policy

- o Lab 3.2 : Password change

VI. APPROBATIONS & AUDIT

Approver profile & Approval workflow for session manager

Approver profile & Approval workflow for password manager

- o Lab 4.1 : Approval workflow

Session Audit

Current Session

Session History

Account History

Approval History

Authentication History

Connection Statistics

Password Manager Audit

Session Recording parameters

Managing the Session Records

CLI Commands

Retention Policy

- o Lab 4.2 : Session audit

VII. WALLIX ACCESS MANAGER

- Global Concepts
- Installing Access Manager as an appliance
- Default Configuration
- Managing organizations
- Managing Bastions on Access Manager
- Managing Local Primary Users
- Managing Primary Users with External Authentication (LDAP)
- Adding Bastion Domain
- Organization Password Policy
- Customize the Organization template
- Connecting to Organizations
- Connecting to a server using RDP
- Connecting to an application
- Connecting to a server using SSH
- Accessing the Account Password
- Session Audit from the Access Password
- Managing Access Manager settings
- Upgrading Access Manager
 - o Lab 5 : Configuring Access Manager

VIII. WALLIX HIGH AVAILABILITY

- Global Concepts
- WALLIX Bastion HA Solution
- WALLIX Bastion HA (WABHA)
- WALLIX Bastion HA Replication
 - o Lab 6 : Replication

IX. WALLIX CUSTOMER SUPPORT

- Before opening a case
- Opening a case

WALLIX CERTIFIED PROFESSIONAL / eWCP-P

WALLIX PAM

This training is intended for engineers and technicians of WALLIX end-users and reseller partners who want to master the configuration, the deployment and the administration of WALLIX Bastion solution.

PREREQUISITES:

The trainee should be acquainted with **SSH, RDP, proxy concepts, and Linux environments**. System, network and infrastructure knowledge will enable the trainee to handle the WALLIX Bastion with greater ease.

This training focuses on the installation, configuration, deployment, and day-to-day administration.

In order to attend this training course, Microsoft Teams is required.

The WALLIX Trainings Labs provides all the necessary training Labs.

The platform includes **5 preconfigured virtual machines**: Domain Controller (Windows 2016), Windows server 2016, Linux server, WALLIX Bastion and Access Manager.

Minimum System Requirements:

- 8GB of RAM
- Processor I5
- 40 GB available space

As the first step, we will configure this platform.

Administrator rights on your laptop are mandatory to install and configure all the tools.

Prepare Lab Virtual Machines :

Download and Install Virtual Box : <https://www.virtualbox.org/wiki/Downloads>

- Platform package
- Virtual Box Extension Package

Lab Virtual machine Access will be communicated at the registration.

WALLIX CERTIFIED PROFESSIONAL / eWCP-P

WALLIX PAM

DESCRIPTION :

This online technical training allows you to discover and take control of our solution. It provides the necessary means to understand the **basic concepts and functionalities** for deployment in a classical architecture.

EVALUATION :

At the beginning of the training, the trainee needs to fill out a pre-test. Then, through oral questions, MCQ, and hand-on labs, the Training Instructor can assess the trainee by an active participation.

At the end of the training, the trainee has to take a MCQ exam.

A 70% score is required to get the WALLIX Certified Professional - PAM (eWCP-P) certification.

TRAINING CONTENT

0. LABS ENVIRONMENTS

- Lab 0: Platform Presentation
 - o Lab 0 : Virtual Box Configuration

I. PRODUCT

Wallix Bastion&Access Manager

II. INSTALLING & HANDLING WALLIX BASTION

- 01** Prerequisites
- 02** Initial Configuration Command Lines
- 03** Initial Configuration WEB
- 04** Backup And Restoration
- 05** Updating Bastion
- 06** Monitoring Logs And System Administration
- 07** Main Components
 - o Lab 1 : Installing and handling the WALLIX Bastion

III. WALLIX SESSION MANAGER

- 00** Global concepts Custom Profiles
- 01** Manage user primary account
- 02** Manage devices
- 03** Manage authorizations
 - o Lab 2.1: RDP and SSH connections
- 04** Manage applications
 - o Lab 2.2: Applications
- 05** Manage SSH Startup Scenario
 - o Lab 2.3: Startup scenario
- 06** Manage Primary User With External Authentication
 - o Lab 2.4: External authentication
- 07** Manage Secondary Account Global Domain
 - o Lab 2.5: Global Domain Account
- 08** Import Export
- 09** Session Probe
 - o Lab 2.6: Discovery
 - o Lab 2.7: Session Probe

IV. WALLIX PASSWORD MANAGER

- 01** Password visualization
 - o Lab 3.1: Password checkout
- 02** Password change
 - o Lab 3.2: Password change
- 03** BreakGlass Scenario And Local Password Policy

V. APPROVAL & AUDIT

- 01** Approval workflow
 - o Lab 4.1: Approval workflow
- 02** Auditors
- 03** Session Recordings
 - o Lab 4.2: Session Audit

VI. WALLIX ACCESS MANAGER

- 01** Configuration
 - Part 01** Installation
 - o Lab 5.1: Installing the Access Manager
 - Part 02** Default Configuration
 - Part 03** Users Integration
 - Part 04** Bastion domain and General configuration
- 02** User Side
- 03** Audit
- 04** Administration
 - o Lab 5.2: Configuring the Access Manager

VII. HIGH AVAILABILITY

- 01** Global concepts WALLIX HA solutions
- 02** WALLIX BASTION HA
- 03** WALLIX HA Replication
 - o Lab 6: Replication

VIII. CUSTOMER SUPPORT

- Customer Support Center

WALLIX CERTIFIED EXPERT / WCE-P

WALLIX PAM

This training is intended for WALLIX reseller partner engineers who want to provide professional services to end-customers and for advanced WALLIX Bastion deployments.

PREREQUIS :

The trainee **must be WCP-P or e-WCP certified** (WALLIX CERTIFIED PROFESSIONAL PAM BASTION).

The trainee **must be acquainted with GNU/Linux command lines.**

Scripting knowledge will enable the trainee to handle WALLIX Bastion advanced concepts with greater ease.

DESCRIPTION :

This 2-day technical training introduces the WALLIX solution advanced concepts to provide professional services to end-customers. Based on Bastion advanced configuration setup, such as Active/Active architecture, automatic provisioning, disaster recovery plan, our course provides knowledge and technical skills required for specific and/ or large-scale deployments in complex environments.

EVALUATION :

At the beginning of the training, the trainee needs to fill out a pre-test. Then, through oral questions, MCQ, and hand-on labs, the Training Instructor can assess the trainee by an active participation.

At the end of the training, the trainee has to take a MCQ exam.

A 70% score is required to get the WALLIX Certified Expert - PAM (WCE-P) certification.

TRAINING CONTENT

I. ADVANCED AUTHENTICATIONS

Bastion authentication methods

Bastion Explicit authentication:

- LDAP/AD
- PINGID
- Radius
- Kerberos

Bastion transparent authentication:

- certificat X509
- Kerberos

Bastion 2-factors Authentication (2FA)

Access Manager authentication methods

Access Manager LDAP explicit authentication

Access Manager - X509 transparent authentication

Access Manager - SAML explicit authentication
(Security assertion markup language)

o Lab 1: WALLIX Bastion Check configuration

o Lab 2.0: Advanced Authentications
X509 Authentication

o Lab 2.1: Advanced Authentications
Transparent authentication Kerberos

II. ADVANCED APPLICATIONS

REMINDER: Applications in WALLIX Session Manager

Clusters

AppDriver

Autolt Scripting Autolt

Downloading and Installing Autolt application

Writing a Autolt script *.au3

Compile the script to generate the Autolt application *.exe

Uploading the Autolt application on the server

Adding an Autolt application on the Bastion

Secure the credentials used by Autolt applications

o Lab 3: Advanced Applications

III. PROXIES PARAMETERS

Global Concepts

RDP Connection Policy

RDP Proxy Global parameters

RDP Proxy sesman Global Parameters

Changing RDP proxy self-signed certificate

SSH Connection Policy

SSH Proxy Global Parameters

TELNET Connection Policy

III. PROXIES PARAMETERS

- VNC Connection Policy
- VNC Proxy Global Parameters
 - o Lab 4: Proxy Parameters

IV. ADVANCED PASSWORD MANAGER

- REMINDER: WALLIX Password Manager
- WAAPM : WALLIX Application to Application Password Manager
- Bastion as Vault externe
 - o Lab 5: Advanced Password Manager

V. WALLIX BASTION REST API

- Global Concepts
- WALLIX Bastion REST API
- Authenticate to the Bastion REST API
- Logout from Bastion REST API
- Bastion REST API Methods
- Bastion REST API Response codes
- Browsing resources Bastion REST API
- Adding a resource using Bastion REST API
- Modifying a resource using Bastion REST API
- Deleting a resource using Bastion REST API
 - o Lab 6: Bastion REST API

Identity As A Service



WALLIX IDaaS

- WALLIX CERTIFIED PROFESSIONAL / **eWCP-I**

WALLIX CERTIFIED PROFESSIONAL / eWCP-I

WALLIX IDaaS

This training is intended for engineers and technicians of WALLIX end-users and reseller partners who want to master the WALLIX Trustelem solution configuration, the deployment, and administration.

PREREQUISITES:

The trainee should be acquainted with **Active Directory objects and Microsoft environments**. System, network and infrastructure knowledge will enable the trainee to handle the WALLIX Trustelem with greater ease.

In order to attend this training course, Microsoft Teams is required.

The WALLIX Training Labs provides all the necessary training Labs.

The platform includes **4 preconfigured virtual machines**: Domain Controller (Windows 2016), Windows server 2016, tenant IDaaS, WALLIX Bastion et Access Manager.

Minimum System Requirements:

- 8GB of RAM
- Processor I5
- 40GB available space

As the first step, we will configure this platform.

Administrator rights on your laptop are mandatory to install and configure all the tools.

Lab Virtual Machine Preparation:

Download and Install Virtual Box : <https://www.virtualbox.org/wiki/Downloads>

- Platform package
- Virtual Box Extension Package

Lab Virtual machine Access will be communicated at the registration.

WALLIX CERTIFIED PROFESSIONAL / eWCP-I WALLIX IDaaS

DESCRIPTION:

This online technical training allows you to discover and take control of our WALLIX Trustelem. It provides the necessary means to understand the basic concepts and functionalities for deployment in a classical architecture.

EVALUATION:

At the beginning of the training, the trainee needs to fill out a pre-test. Then, through oral questions, MCQ, and hand-on labs, the Training Instructor can assess the trainee by an active participation.

At the end of the training, the trainee has to take a MCQ exam.

A 70% score is required to get the WALLIX Certified Professional IDaaS TRUSTELEM (eWCP-I) certification.

TRAINING CONTENT

I. INTRODUCTION

- Introducing WALLIX & Products
- WALLIX Trustelem

II. TRAINING & CERTIFICATION COURSE

- o Lab 0: SAML

III. TRUSTELEM ADMINISTRATION INTERFACE PRESENTATION

- Presentation of the different tabs

IV. USERS MANAGEMENT

- Add users
 - Users from Azure Active Directory
 - Users from GSuite
 - Users from Active Directory
- Manage Users
- Manage Groups
- Best practices
 - o Lab 1: User Management

V. APPLICATIONS MANAGEMENT

- SAML or OpenID Connect
- Generic models
- Pre-integrated applications
- LDAP/Radius Access Manager and Bastion
 - o Lab 2.1: SAML
 - o Lab 2.2: LDAP AND RADIUS

VI. ACCESS MANAGEMENT

- Access management interface
- Access rules

VII. ADVANCED USER EXPERIENCE

- Integrated Windows Authentication
- Authentication with certificates
- Self-service password reset
 - o Lab 3: Advanced User Experience

VIII. FOLLOW-UP OPERATIONS

- Logs
- Alerts
- Sessions
- Dashboard
 - o Lab 4: Follow-up operations

IX. QUICK INTRODUCTION TO APIs

Main features presentation

X. DELEGATED ADMIN

Delegated Admin

XI. PROJECT PLANNING

Main steps to follow

PAM4OT



WALLIX PAM4OT

- WALLIX CERTIFIED PROFESSIONAL / **eWCP-P-OT**

WALLIX CERTIFIED PROFESSIONAL / eWCP-P-OT

WALLIX PAM4OT

This training is intended for engineers and technicians of WALLIX end-users, working in OT field, and reseller partners who want to sell PAM4OT solution.

PREREQUISITES:

The trainee must be **WCP-P or e-WCP certified** (WALLIX CERTIFIED PROFESSIONAL PAM BASTION). System, network and infrastructure knowledge will enable the trainee to handle the WALLIX PAM4OT with greater ease.

DESCRIPTION:

This online technical training allows you to discover and take control of our WALLIX PAM4OT solution.

EVALUATION:

At the beginning of the training, the trainee needs to fill out a pre-test. Then, through oral questions, MCQ, and hand-on labs, the Training Instructor can assess the trainee by an active participation.

At the end of the training, the trainee has to take a MCQ exam.

A score 70% is required to get the WALLIX Certified Professional PAM4OT (eWCP-P-OT) certification.

TRAINING CONTENT

Introduction to the eWCP-P-OT Course Program

I. MODULE 1 E-WCP-P-OT PREREQUISITES

The e-WCP-P-OT Prerequisites

II. MODULE 2 DIGITAL ACCESS IN OT

Part 01 Discover the OT Universe:

1.1 What is OT?

1.2 Main Components, Equipment and Protocols

1.3 OT Context Understanding

Part 02 The Security Stakes of Identity & Access

III. MODULE 3 OT ISSUES AND SOLUTIONS

Introduction: Typical Users and Digital Access Issues

Part 01 How to manage Third-Party Access

Part 02 How to manage Industrial Protocols

Part 03 How to provide Secure Access while preserving Service Continuity

Part 04 How to secure File Transfer?

Part 05 How to allow a Secured Access to Critical Assets?

Part 06 How to trace and Audit for Incident Resolution and Regulatory Compliance

V. MODULE 4 PAM4OT ARCHITECTURES

Centralized Architecture

Decentralized Architecture

Hybrid Architecture

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