

WALLIX ACADEMY Certified Training Courses



WALLIX ACADEMY CERTIFICATION COURSES

The WALLIX Academy is dedicated to training end-users and partners in using WALLIX solutions and creating and running a community of certified members of the WALLIX User Club.

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

	PAM (P)	MFA (A)	EPM (E)	IDaaS (I)
Available WALLIX training courses	WALLIX Bastion	WALLIX Authenticator	WALLIX BestSafe	WALLIX Trustelem
Certification training WALLIX Certified Administrator - WCA	•			
Certification training WALLIX Certified Professional - WCP	٠	٠	٠	•
Certification training WALLIX Certified Expert - WCE	٠			
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Our training courses can be:

• In person training: inter or intra-company, handling a maximum of 6 trainees.

• **Remote training:** we require the use of Microsoft Teams. Please check the technical requirements according to training.

Find the dates of courses on

https://www.wallix.com/wallix-academy/

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

academy@wallix.com

*With your contact details and the dates of the chosen training course.

WALLIX is a training organization registered under number 11 75 51538 75. This registration does not imply approval of the State.



SECURE YOUR DIGITAL

FUTURE

Privileged Access Management

WALLIX Bastion

• WALLIX CERTIFIED ADMINISTRATOR / WCA-P

PAM

W<LLiX

CERTIFIED

BASTION

- WALLIX CERTIFIED PROFESSIONAL / WCP-P
- WALLIX CERTIFIED EXPERT / WCE-P

WALLIX CERTIFIED ADMINISTRATOR / WCA-P PAM - BASTION

This training is intended for engineers and technicians of WALLIX end-users and reseller partners who want to understand our WALLIX Bastion 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**. **Systems**, **networks and infrastructure skills** will enable the trainee to acquire the WALLIX Bastion more quickly. This training focuses on the administration tasks of the Bastion solution 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 in a position to manage it in day to day activities. It provides the necessary means to understand the basic concepts and functionalities for its maintenance and basic administration. It is based on an active participation of the trainee who will have the ability to interact with our experience trainer in the course of the training session. At the end of the training, the trainee will have to pass an MCQ test. An 70% score is required to get the WALLIX Certified Administrator - Bastion(WCA-P) certification.

Training content:

I. INTRODUCTION	Approver profile
WALLIX & Portfolio Presentation	Auditor profile
PAM introduction	V. EXTENDED CONFIGURATION
II. WALLIX BASTION SESSION MANAGER	• SIEM/SNMP
• Profile	• CSV
Global concepts	External authentication
Primary users with local authentication management	Session probe
Targets management	• Enregistrement de sessions
Targets accounts management	Access Manager
Authorizations management	Session audit from Access Manager
Checkout policy	VI. MAINTENANCE
Applications management	Services admin/users logins
III.WALLIX BASTION PASSWORD MANAGER	CLI commands
Checkout policy configuration	 Updates/Upgrades management
Password change policy	• Install/Uninstall a hotfix
Other way to change target accounts password	VII. SUPPORT AND TROUBLESHOOTING
• Break glass scenario	Produit and licence
IV. PROFILES & ROLES	Maintenance contract
Global concepts	WALLIX resources
• User profile	Logs files
Admin profile	Customer Success Support : opening a case



WALLIX CERTIFIED PROFESSIONAL / WCP-P PAM - BASTION

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:

80

The trainee should be acquainted with SSH, RDP, proxy concepts, and Linux environments. Systems, networks and infrastructure skills will enable the trainee to acquire the Bastion more quickly.

DESCRIPTION :

This 3-day 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 a deployment in a classical architecture. Alternating theory and practice, it is based on an active participation of the trainee who will have to configure and administer a Bastion into a LAB platform to become completely autonomous. At the end of the training, the trainee will have to pass an MCQ test. An 70% score is required to get the WALLIX Certified Professional - Bastion (WCP-P) certification.

Training content:

I. Training and certification courses	 Monitoring and logs
II. Company and products	• Configuring an email server and enabling the notifications
WALLIX company	Main components and services of the Bastion
WALLIX products	IV. WALLIX Session Manager
Licensing information	Global concepts
III. Installing and Handling the WALLIX Bastion	Add user/primary account (local authentication)
Installing the WALLIX Bastion appliance	Add a user/primary account group
• The Bastion in the infrastructure	Add a device
Initial configuration	Add secondary/target account (Device account)
First connection	Add resource group
Changing the admin password	Add an authorization
Installing the license	Connecting to a server using RDP
Configuring the network	Connecting to an SSH server
Configuring the time zone and NTP servers	Changing the disclaimer message
Add A Bastion administrator	Add an application
Backing up the configuration	• Add an SSH startup scenario
Restoring the configuration	Add user/primary account (external authentication)
Backing up the bastion version	• Discovery
• Updating the Bastion version	Add secondary/target account (Global Domain account)
Rollback to the previous bastion version	• Import/export
Install/uninstall a hotfix	



WALLIX CERTIFIED PROFESSIONAL / WCP-P PAM - BASTION

SECURE YOUR DIGITAL FUTURE

V. WALLIX Password Manager	CLI Commands
Global concepts	Retention policy
Add a Checkout policy	Custom profiles
Configuring a Checkout policy on target/secondary account	VII. WALLIX Access Manager
• Add a password management account to the resource group	Global concepts
• Enable the password checkout on the authorization	 Installing Access Manager as an appliance
Password Checkout - User side	Default configuration
Add password change policy	Manage organization
• Discovery	Manage Bastions on the Access Manager
Password change plugins	Manage local primary users
• Enable password change on a target/secondary account	Manage primary users with external authentication (LDAP)
• Enabling password change and Configuring password policy and password plugin on local/global domain	Password Policy of the organizations
• Enabling password change at check-in	• Customize the template of the organizations
Password change - administrator side	• Connecting to a server using RDP
• Break glass	Connecting to an application
VI. Profiles	Connecting to a SSH server
Approver profile and approval workflow for password manager	Accessing the account password
Session audit	Session audit from the Access Manager
Current session	Managing the Access Manager settings
Session history	Upgrading the Access Manager
Account history	VIII. WALLIX High availability
• Approval history	WALLIX Bastion HA
Authentication History	WALLIX HA Replication
Connection statistics	IX. WALLIX Customer Support Center
Password Manager audit	Before opening a case
Session recording parameters	• Opening a case
Managing the session records	



WALLIX CERTIFIED EXPERT / WCE-P PAM - BASTION

This training is intended for engineers of WALLIX reseller partners and end-users who want to achieve advanced deployments of the WALLIX Bastion solution.

PREREQUISITES:

80

The trainee must be certified WCP-P (WALLIX CERTIFIED PROFESSIONAL - BASTION). He must also be acquainted with the GNU/Linux command line. Scripting knowledge will facilitate the follow-up of this training.

DESCRIPTION:

This 2-day technical training introduces the advanced concepts of WALLIX solutions to achieve advanced deployments. Based on the setup of Bastion advanced configurations (active / active architecture, automatic provisioning, disaster recovery plan, etc.), training provides the knowledge and skills needed for specific and/or large-scale deployments in complex environments. At the end of the training, an MCQ test must be completed by the trainee and he must get an 70% score to get the WALLIX Certified Expert - Bastion (WCE-P) certification.

Training content:

I. Advanced authentications	• Secure the credentials used by Autoit applications
Bastion - LDAP/AD explicit authentication	WABIELogon script
Bastion - Radius Authentification explicite	III. Proxies parameters
Bastion - Kerberos explicit authentication	• Global concepts
Bastion - Kerberos transparent authentication	RDP connection policy
Bastion - certificate X509 transparent authentication	RDP Proxy Global parameters
Access Manager - LDAP explicit authentication	RDP Proxy sesman Global parameters
Access Manager - X509 certificate Transparent authentication	Change the RDP proxy self-signed certificate
• Access Manager - SAML (Security assertion markup language) Explicit authentication	• SSH connection policy
II. Advanced Applications	SSH Proxy Global parameters
Reminder: Applications in WALLIX session manager	TELNET connection policy
• Clusters	VNC connection policy
Autolt Scripting Language	VNC Proxy Global parameters
Download and install Autolt application	IV. Advanced Password Manager
• Write an Autolt script *.au3	Reminder: WALLIX Password Manager
• Compile the script to generate the Autolt application *.exe	WAAPM: WALLIX Application to Application Password Manager
Compile the script to generate the Autolt application *.exe Upload the Autolt application on the server	WAAPM: WALLIX Application to Application Password Manager Bastion as External vault (from V6.1)



WALLIX CERTIFIED EXPERT / WCE-P PAM - BASTION

V. WALLIX Bastion REST API	• The Bastion REST API Response codes
• Global concept	Browse resources using REST API
WALLIX Bastion REST API	ADD a resource using REST API
Authenticate to The Bastion REST API	Modify a resource using REST API
• Logout from the Bastion rest API	Delete a resource using REST API
• The Bastion REST API methods	

PAM Remote Training Courses technical prerequisites

To succeed in flowing our remote training, we require the use of Microsoft Teams.

As part of WCP and WCE training there is a WALLIX Training LABs platform that allows you to do all training LABs independently. For that, the platform includes 4 preconfigured virtual machines: Domain controller (Windows 2016), 2016 Windows server, Linux server and WALLIX Bastion.

Minimum Hardware requirements for WCP-P and WCE-P training:

- 8GB Ram or more
- I5 Processor

80

- 40GB harddrive space available
- In the first step of the training we will setup this Platform.
- The admin rights in your computer is mandatory to install and configure all these tools properly.

Prepare the lab virtual machines:

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

- Platform package
- Virtual Box Extension Package

Access to lab virtual machines will be communicated to you when you register



Multi-factor Authentication for PAM

WALLIX Authenticator MFA for PAM

MFA

W∢LLiX

CFRTIFIFD

AUTHENTICATOR

• WALLIX CERTIFIED PROFESSIONAL / WCP-A

WALLIX CERTIFIED PROFESSIONAL / WCP-A WALLIX Authenticator (MFA for 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 Authenticator solution.

PREREQUISITES:

The trainee should be acquainted with Active Directory Objects, and Microsoft environments. Systems, networks, and infrastructure skills will enable the trainee to acquire the WALLIX Authenticator more quickly.

DESCRIPTION :

This 1-day technical training allows you to discover and take control of our WALLIX Authenticator solution. It provides the necessary means to understand the basic concepts and functionalities for a deployment in a classical architecture. Alternating theory and practice, it is based on an active participation of the trainee who will have to configure and administer into a LAB platform to become completely autonomous. At the end of the training, an MCQ test must be completed by the trainee and he must get an 70% score to get the WALLIX CERTIFIED PROFESSIONAL (WCP-M).

Training content:

I. COMPANY AND PRODUCTS	Users from Active Directory
Introduce WALLIX & Products	V. APPLICATIONS MANAGEMENT
Authenticator	SSO Applications
II. WALLIX AUTHENTICATOR SOLUTION	LDAP/Radius Applications
 Identity and Access Management 	VI. ACCESS MANAGEMENT
Users Access	Access management interface
III. AUTHENTICATOR MANAGEMENT INTERFACE PRESENTATION	Access rules
• Three main steps	VII. ADVANCED USER EXPERIENCE
• Presentation of the different tabs	• Logs
IV. USERS MANAGEMENT	• Alertes
Users created in WALLIX Authenticator	Sessions
Users from d'Azure AD	• Tableaux de bord
• Users from de GSuite	

Endpoint Privilege Management

WALLIX Bestsafe

EPM

W∢LLiX

CERTIFIED

BESTSAFE

• WALLIX CERTIFIED PROFESSIONAL / WCP-E

WALLIX CERTIFIED PROFESSIONAL / WCP-E EPM - BESTSAFE

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 BestSafe solution.

PREREQUISITES:

The trainee should be acquainted with Active Directory Objects, MMC Tools, Microsoft environments. Systems, networks and infrastructure skills will enable the trainee to acquire the WALLIX BestSafe more quickly.

DESCRIPTION:

This 2-days technical training allows you to discover and take control of our WALLIX BestSafe solution. It provides the necessary means to understand the basic concepts and functionalities for a deployment in a classical architecture. Alternating theory and practice, it is based on an active participation of the trainee who will have to configure and administer into a LAB platform to become completely autonomous. At the end of the training, the trainee will have to pass an MCQ test. An 70% score is required to get the WALLIX BestSafe Certified Professional (WCP-E) certification.

Program:

I. COMPANY AND PRODUCTS	Rules Flags
Introduce WALLIX & Products	Rules Inheritance
How can BestSafe help you to reduce your surface attack?	V. WALLIX BESTSAFE EXTENDED CONFIGURATION
Active Directory Main Concepts Reminders	• General Tab
Windows Process Security Context Reminders	End Point Security
II. WALLIX BESTSAFE SOLUTION	Emergency Actions
POLP (Principle of Least Privilege)	Analytics
WALLIX BestSafe Architecture	Forbidden Rules
WALLIX BestSafe Networking	Rules Admins
III. WALLIX BESTSAFE INSTALLATION	VI. MAINTENANCE & SUPPORT
AD requirements and changes	BestSafe Logs Analysis
Install / Reinstall / Update Admin Console	Rules Verifying
• Install / Reinstall / Update Client	VII. WALLIX BESTSAFE SECURITY RULES & RANSOMWARE RULES CONFIGURATION
License Activation	Local privileged group membership management – Security Rules
IV. WALLIX BESTSAFE PRIVILEGE RULES CONFIGURATION	Enabling Security Rules
 Manage windows process security context – Privilege Rules 	Managing Security Rules
• Privilege Rules - Restricted / Blocked / Administrator / Com- mand Line / Filtering by Groups / Just in Time - Rules Validity / Rules Filtering by OS	Ransomware Rules
Privileges Management / Parent Processes	Local Accounts Password Management





WALLIX Trustelem

• WALLIX CERTIFIED PROFESSIONAL / WCP-I

WALLIX CERTIFIED PROFESSIONAL / WCP-I IDaaS - TRUSTELEM

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 Trustelem solution.

PREREQUISITES:

The trainee should be acquainted with **Active Directory Objects**, **Microsoft environments**. **Systems**, **networks and infrastructure skills** will enable the trainee to acquire the WALLIX Trustelem more quickly.

DESCRIPTION:

This 1-day technical training allows you to discover and take control of our WALLIX Trustelem solution. It provides the necessary means to understand the basic concepts and functionalities for a deployment in a classical architecture. Alternating theory and practice, it is based on an active participation of the trainee who will have to configure and administer into a LAB platform to become completely autonomous. At the end of the training, the trainee will have to pass an MCQ test. An 70% score is required to get the WALLIX Trustelem Certified Professional (WCP-I) certification.

Program:

I. GENERALITIES	VI. WALLIX TRUSTELEM ACCESS MANAGEMENT
Introduce WALLIX & Products	Access Management Interface
Introduce Trustelem	Access Rules Definition
II. WALLIX TRUSTELEM SOLUTION	VII. WALLIX TRUSTELEM ADVANCED USER EXPERIENCE
 Identity and access management 	Integrated Windows Authentication
• User Accesses	Authentication with Certificates
III. WALLIX TRUSTELEM ADMINISTRATION INTERFACE PRESENTATION	• Reset password Active Directory by User
• Three major steps	VIII. WALLIX TRUSTELEM FOLLOW-UP OPERATIONS
• Presentation of the different tabs	• Log
IV. WALLIX TRUSTELEM USERS MANAGEMENT	• Alerts
Users created on WALLIX Trustelem	Sessions
Users from Azure AD	• Dashboard
Users from GSuite	IX. QUICK INTRODUCTION TO APIS
Users from Active Directory	Presentation of the main functions
V. WALLIX TRUSTELEM APPLICATIONS MANAGEMENT	X. PLANNING AN SSO PROJECT
Generic Models	Presentation of the main steps to follow
 Pre-integrated Applications 	



about WALLIX

A software company providing cybersecurity solutions, WALLIX Group is a European specialist in privileged account governance. In response to recent regulatory change (NIS/GDPR in Europe and OVIs in France) and the cyber security threats affecting all companies today, Bastion helps users protect their critical IT assets: data, servers, terminals and connected objects.

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