WALLIX ACADEMY

Certified Training Courses

WALLIX ACADEMY
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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

Available WALLIX training courses	PAM (P) WALLIX Bastion	IDaaS (I) WALLIX Trustelem	EPM (E) WALLIX BestSafe
Certification training WALLIX Certified Administrator - WCA	●		
Certification training WALLIX Certified Professional - WCP	●	●	●
Certification training WALLIX Certified Expert - WCE	●		

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. Handling a maximum of 3 trainees.

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.

WALLIX
CYBERSECURITY SIMPLIFIED

Privileged Access Management

PAM

WALLIX
CYBERSECURITY SIMPLIFIED

CERTIFIED

BASTION
2020

WALLIX Bastion

- WALLIX CERTIFIED ADMINISTRATOR / **WCA-P**

- 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.**

Program:

I. GENERALITIES	V. EXTENDED CONFIGURATION
• Introduce WALLIX & Portfolio	• Connection policies
• Introduce PAM	• Configuration options
II. WALLIX BASTION SOLUTION	- Disabling session probe
• WALLIX Architecture in general (WALLIX Access Manager, Bastions, HA)	- Activating SSH scenarios
• Possible integration (SNMP, SIEM)	• Vault transformation
• Demo 1 simple use case with all components / Questions	• Application Integration
III. WALLIX BASTION SESSION MANAGEMENT BASIC CONFIGURATION	**VI. HOW TO MAINTAIN & SUPPORT**
• Admin menus	• Log Files (wabsysinfo), detail of the logs
• Auditors and approvers menus	• Services - Admin users/logins
• Basic configuration (adding/deleting resources / users) provisionning GUI	• Managing updates/upgrades
• Basic configuration (adding/deleting resources / users) CSV / API	- Find and go through the release notes (compatabilies and migration path, update procedure)
IV. WALLIX BASTION PASSWORD MANAGEMENT BASIC CONFIGURATION	- Presentation of the release logics (LTS, Intermediary, Hotfixes)
• Pwd Management configuration	**VII. TROUBLESHOOTING**
• Breaking glass procedure	• Examples
	• WALLIX resources (support portal, knwoledge base, documentation and download)

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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:

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

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WALLIX CERTIFIED PROFESSIONAL / **WCP-P**
PAM - BASTION

• Add an SSH startup scenario	• Password change - administrator side
• Add user/primary account (external authentication)	• Breaking glass
• Import user/primary account from LDAP/AD	• Password manager audit
• Add secondary/target account (Global Domain account)	• Approval workflow for password Manager
• Approval workflow for session manager	**VII. WALLIX Access Manager**
• User profiles	• Global concepts
• Import/export	• Installing Mysql server
V. Session Audit	• Installing the WALLIX Access Manager
• Current session	• The default configuration
• Session history	• Add an organization
• Approval history	• Add a bastion to the organization
• Account history	• Add primary/user account to the organization
• Authentication History	• Password policy of the organization
• Connection statistics	• Customize the template of the organization
• Audit Logs	• Connecting to the organization
• Session recording parameters	• Connecting to a server using RDP
• Managing the session records	• Connecting to an application
VI. WALLIX Password Manager	• Connecting to a server using SSH
• Global concepts	• Accessing to the accounts password
• Add a Checkout policy	• Session Audit from the access manager
• Configuring a Checkout policy on target/secondary account	• Managing the WALLIX Access Manager
• Add a password management account to the resource group	**VIII. WALLIX High availability**
• Enable the password checkout on the authorization	• WALLIX Bastion HA
• Password Checkout - User side	• WALLIX HA Replication
• Add password change policy	**IX. Wallix CUSTOMER support center**
• Password change plugins	• Before opening a case
• Enable password change on a target/secondary account	• Opening a case
• Enabling password change and Configuring password policy and password plugin on local/global domain	
• Enabling password change at check-in	

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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:

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

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WALLIX CERTIFIED EXPERT / **WCE-P**
PAM - BASTION

• Bastion as External vault (from V6.1)	• The Bastion REST API methods
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

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
• 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

WALLIX
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IDaaS

IDaaS

WALLIX
CYBERSECURITY SIMPLIFIED

CERTIFIED

TRUSTELEM
2020

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	

WALLIX
CYBERSECURITY SIMPLIFIED

Endpoint Privilege Management

EPM

W<LLiX
CYBERSECURITY SIMPLIFIED

CERTIFIED

BESTSAFE
2020

WALLIX 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 / Command Line / Filtering by Groups / Just in Time - Rules Validity / Rules Filtering by OS	• Ransomware Rules
• Privileges Management / Parent Processes	• Local Accounts Password Management

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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