

WALLIX

BASTION 8.2

January 2021



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WALLiX
B A S T I O N

CONTROLLED RELEASE 8.2
January 2021

Bastion 8.2 – January 2021 – Features map

Cloud images

Yandex image

AWS marketplace image

Log filtering for SIEM

Manage costs of exporting logs to a SIEM

Session improvements

WinSCP recording + DLP/AV

Session Sharing extension

./

Security improvements

Hyper-V Gen 2 in cloud images

Database password change

Bastion cryptography unlocking CLI

UI Improvements

Continuous page migration

Default language on RDP Proxy login

Performance improvements

Parallelization of password rotation

QoS on session

Logs retention policy

Rotation of audit

Cloud images

New Yandex image to complete cloud deployments



- Bastion version 8
- All functionalities : Session manager, Password manager, Access manager
- All APIs and interoperability (AD, Splunk, HashiCorp, etc.)

- Available and visible on the Azure Marketplace
- Deployment through the Azure Console or JSON template or Azure-cli or Terraform
- Available even if not visible on the AWS Marketplace(private AMI shared by Wallix)
- Deployment through the AWS Console or thru Terraform script or AWS shell
- Available even if not visible on the GCP Marketplace (GCP image to be built by user based on Wallix input)
- Deployment through the GCP Console or thru Terraform script or Google SDK
- Available even if not visible on the Yandex Marketplace
- Shareable by WALLIX
- Available even if not visible on the OpenStack Marketplace (private Qcow2 shared by Wallix)
- Deployment through the OpenStack Console

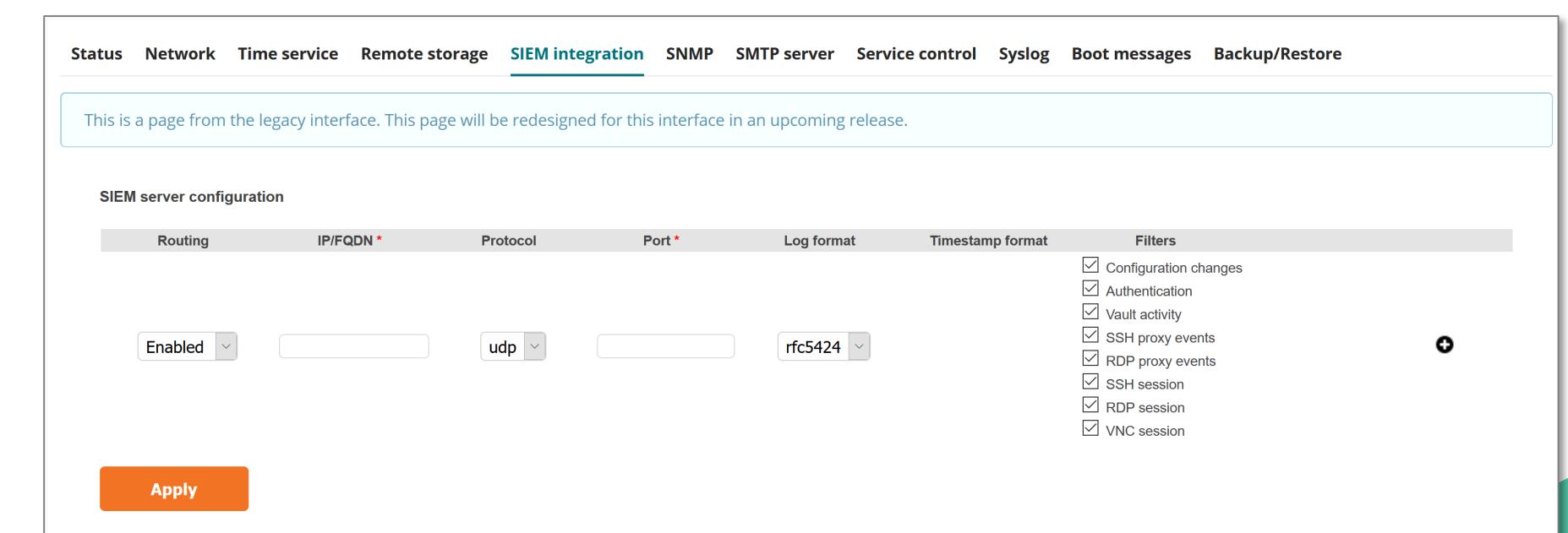
Log filtering for SIEM

Manage costs of exporting logs to a SIEM

- Objective:
 - Provide the capacity to filter logs sent to an external SIEM
- Improvements this version brings:
 - Extension of the SIEM integration page
 - Checkboxes to select which logs are to be sent via syslog
 - Alternative through filters with migration capacities for advanced usage
 - Support custom filtering by manual syslog configuration

KEY BENEFITS

- Cost effective usage of Bastion logs with SIEM
- Facilitation of policy extension for the customer



The screenshot shows a legacy interface for SIEM integration. The top navigation bar includes links for Status, Network, Time service, Remote storage, SIEM integration (which is underlined in blue), SNMP, SMTP server, Service control, Syslog, Boot messages, and Backup/Restore. A message at the top states: "This is a page from the legacy interface. This page will be redesigned for this interface in an upcoming release." Below this, the "SIEM server configuration" section is visible. It contains fields for "Routing" (set to "Enabled"), "IP/FQDN" (a dropdown menu), "Protocol" (set to "udp"), "Port" (a dropdown menu), "Log format" (set to "rfc5424"), and "Timestamp format" (a dropdown menu). To the right of these fields is a "Filters" section with a list of checkboxes. Most of these checkboxes are checked, including "Configuration changes", "Authentication", "Vault activity", "SSH proxy events", "RDP proxy events", "SSH session", "RDP session", and "VNC session". There is also an unchecked checkbox for "Authenticating". At the bottom of the configuration section is an "Apply" button.

Session improvements 1/4

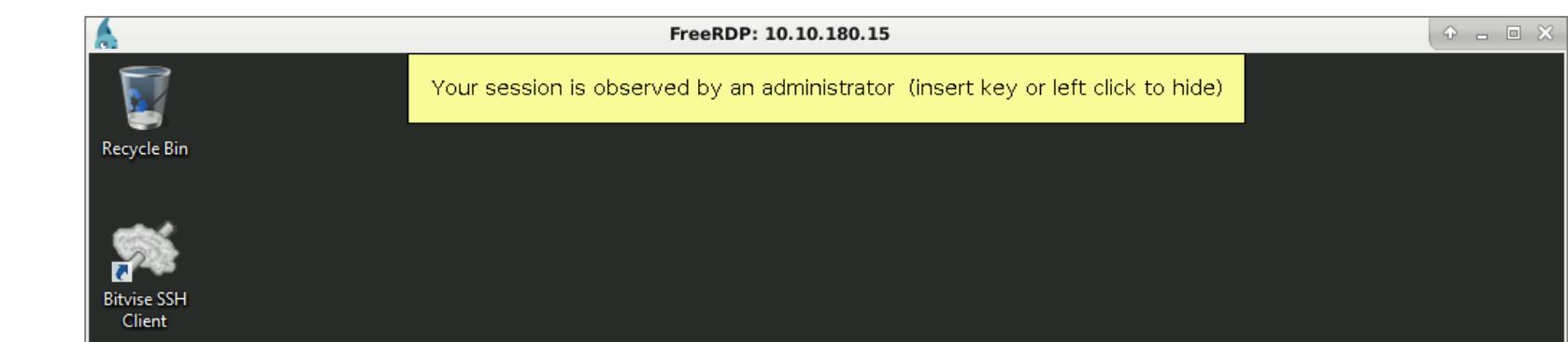
Improvements and extension of session sharing

- Session sharing improvements:
 - If a session sharing occurred on a session, it is visible on the session list
 - Recording of auditor when in 4 Hands
 - Logging
 - When a 4 eyes session is started, the user is informed



wabuser1@10.1.250.1	user1@2016QA@win2016:3389	2020-12-07 14:33:09	2020-12-07 14:35:30	00:02:21	116.0 KB	
audit_user@10.1.248.6	audit_user@win10-local@win10:3389	2020-12-07 14:17:20	2020-12-07 14:17:25	00:00:05	--	

#	Start time	End time	Username	Source IP	Protocol	Target	Target host	Target sub-protocol	Result	Audited/Shared target	Auditor names
1	11/12/2020 16:02	11/12/2020 16:03	audit_user	10.10.160.19	RDP	audit_user@win2016-wd-local@win2016-wd:3389	10.10.45.64	RDP	True	user1@win2016-wd-local@win2016-wd:3389	
2	11/12/2020 16:02	11/12/2020 16:03	wabuser1	10.10.160.19	RDP	user1@win2016-wd-local@win2016-wd:3389	10.10.45.64	RDP	True		audit_user
3	11/12/2020 15:58	11/12/2020 15:59	audit_user	10.10.160.19	RDP	audit_user@win2016-wd-local@win2016-wd:3389	10.10.45.64	RDP	True	user1@win2016-wd-local@win2016-wd:3389	
4	11/12/2020 15:57	11/12/2020 15:59	wabuser1	10.10.160.19	RDP	user1@win2016-wd-local@win2016-wd:3389	10.10.45.64	RDP	True		audit_user
5	11/12/2020 15:37	11/12/2020 15:37	wabuser1	10.10.160.19	RDP	user1@2016QA@win2016:3389	10.10.45.63	RDP	True		
6	11/12/2020 15:34	11/12/2020 15:34	wabuser1	10.10.160.19	RDP	user1@2012QA@win2012:3389	10.10.45.57	RDP	True		
7	11/12/2020 15:31	11/12/2020 15:31	wabuser1	10.10.160.19	RDP	user1@2019QA@win2019:3389	10.10.45.152	RDP	True		



Session improvements 2/4

Improvements and extension of analysis

- New protocol analysis and recording: WinSCP
 - WinSCP is a multi-channel protocol
 - It is audited by default
- Data Loss Prevention / Anti-Virus (DLP/AV)
 - WinSCP and SFTP are now analyzed and can be blocked

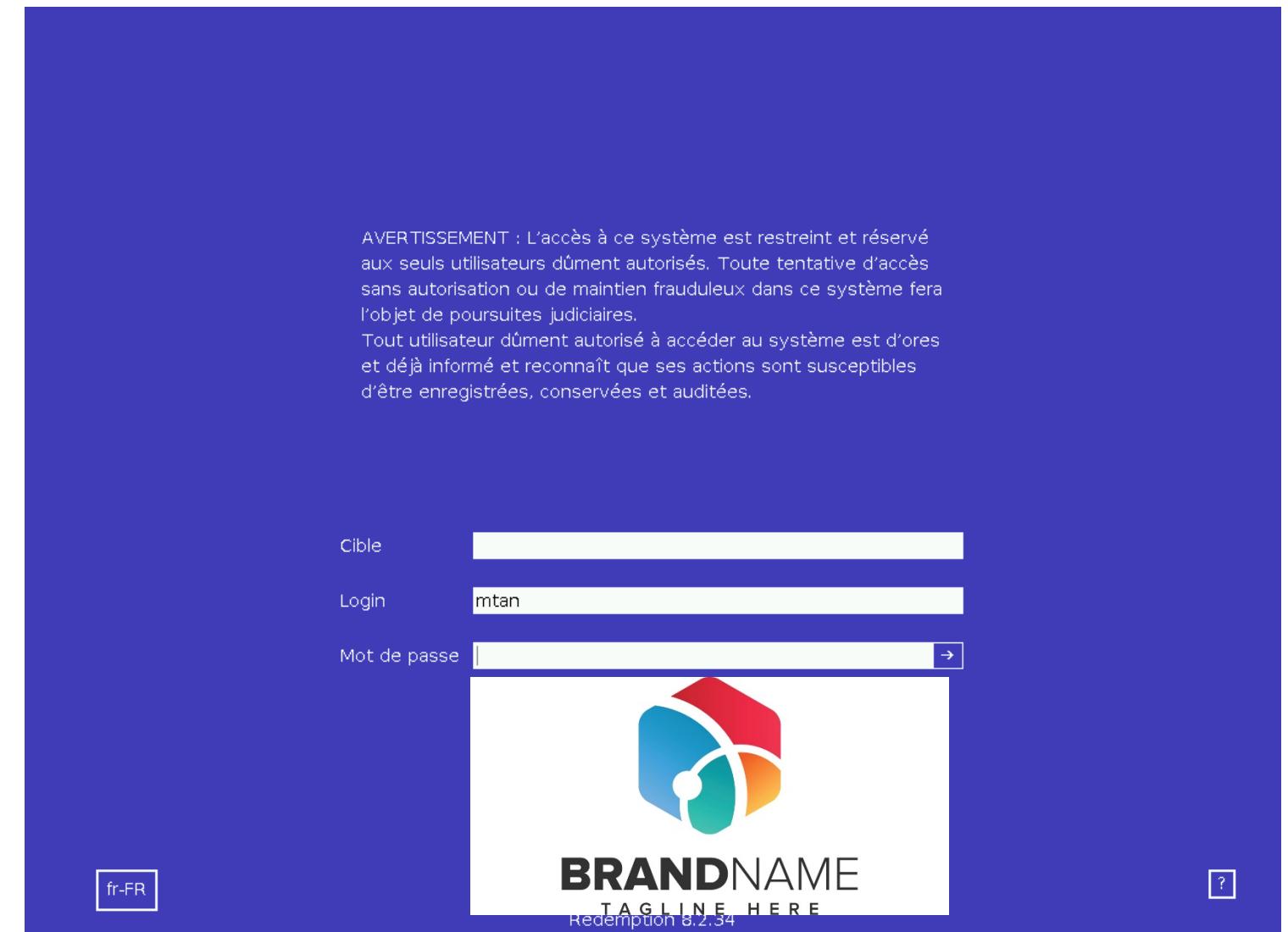
KEY BENEFITS

- Increased coverage of session and file transfer protocols
- Increased security in audit and forensic pertinency

Session improvements 3/4

Theming of RDP proxy pages

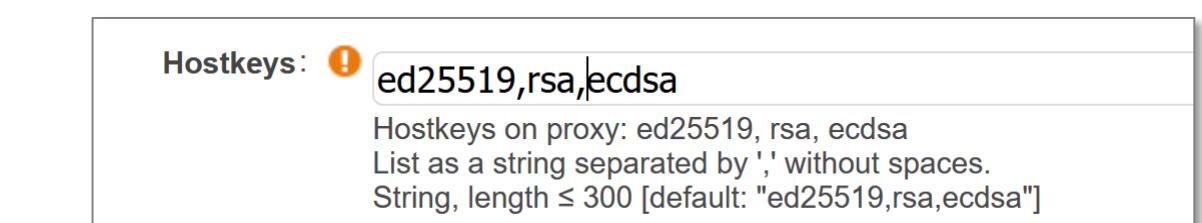
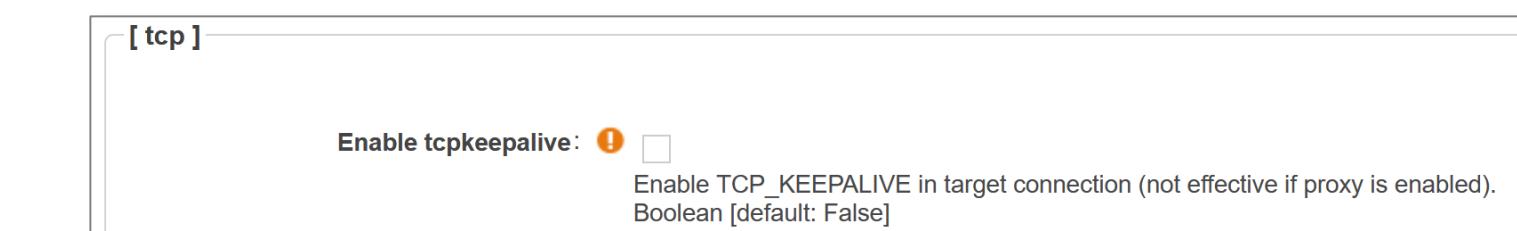
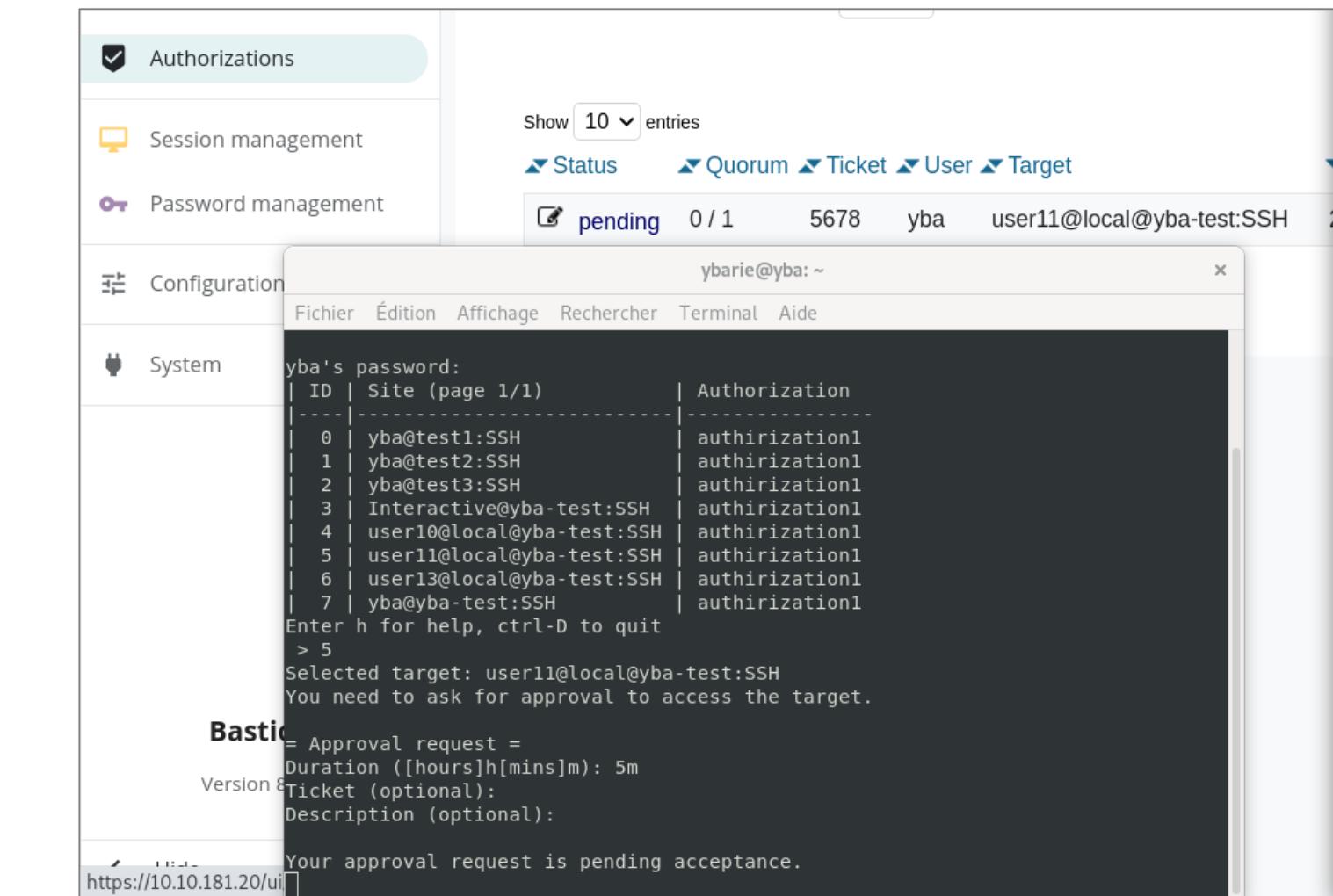
- Global options now propose to:
 - Configure colors
 - Define a picture to be displayed



Session improvements 4/4

Other improvements

- ITSM ticket number is stored on approval, and is displayed in session history
- TCP keepalive for SSH sessions
- ECDSA key for SSH hosts
- Appdriver:
 - edge chromium support:
APP_DRIVER_EDGE_CHROMIUM_UIA
 - HTTP authentication support: to add in parameters:
/e:HTTPAuthentication=Yes



Security improvements

- Hyper-V Generation 2 support when using ISO (UEFI deployment)
 - WALLIX Bastion .vhdx disk image must be imported to create a generation 1 virtual machine.
 - WALLIX Bastion .iso disk image must be imported to create a generation 2 virtual machine.
 - Hyper-V Generation 2 VM will solely boot in EFI.
 - More information here:
<https://docs.microsoft.com/en-us/windows-server/virtualization/hyper-v/hyper-v-on-windows-server>.
- Database password can be changed by root: `WABDatabasePassphrase`
- `WABUnlockPassphrase`: allows `wabsuper` and root to decrypt the Bastion without having to go type the password on the GUI.

UI improvements

Continuous UI UX improvements

- Password change policies
 - Cron component
- License screen
 - Revoke button
- Default language on RDP Proxy login
 - Can be auto, fr, en

KEY BENEFITS

- Improvement of UX UI

Period of change

Cron syntax expected for this field (empty=disabled)

Every on and at :

Double click on a drop-down list option to automatically select/unselect a periodicity

Configuration: RDP proxy

[translation]

Login language: Auto EN FR

Option [default: Auto]

Performance improvements

Password rotation performance

- Password plugins execution in parallel
 - For AD, check that this AD supports N parallel password changes (see Microsoft doc here: <https://docs.microsoft.com/en-us/troubleshoot/windows-server/identity/view-set-ldap-policy-using-ntdsutil>)
- Credential change operation : 1000 accounts/one domain/one target: 355s
 - 1000 accounts in 6 minutes
 - **10X faster than before !**

Session QoS tracking

- Tracked metrics in seconds:
 - Primary connection (network time)
 - Primary authentication (bastion cpu/db time)
 - Rights retrieval (bastion cpu/db time)
 - Credentials retrieval (bastion cpu/db time)
 - Target connection (network time)
 - Total
- Added to /var/log/wabproxy.log with tag "TIME_METRICS" once target connection is done.

```
sshproxy: [sshproxy] psid="158824182123304" user="bob" type="TIME_METRICS" checkout_target="0.098"  
target_connection="0.037" session_id="171ca96fb8f66eb0005056b64024" primary_connection="0.43"  
primary_authentication="0.139" fetch_rights="0.013" total="0.717"
```

Log retention policy

Rotation of audit configurable policy

- Objective: configurable data retention policy
 - Audit logs and metadata can be automatically removed after a configurable period of time
 - That will concern both Bastion and AM regarding:
 - Username and IP association
 - Audit and metadata
 - Transaction data that would contain start/end/duration of session
 - Default rotation period will be 252 days, configurable by UI.

KEY BENEFITS

- Data retention for all personal information can be configured by Bastion
- Similar policy is available in Access Manager 3.0

Configuration: Data retention policy

Configuration options Time frames External authentications LDAP/AD domains Notifications Local password policy Connection messages X509 configuration

Help on options Advanced options

[main]

Remove user data older than: 36

Remove all data older than this number of weeks (with suffix w or no suffix) or days (with suffix d). String, length ≥ 1 [default: "36"]

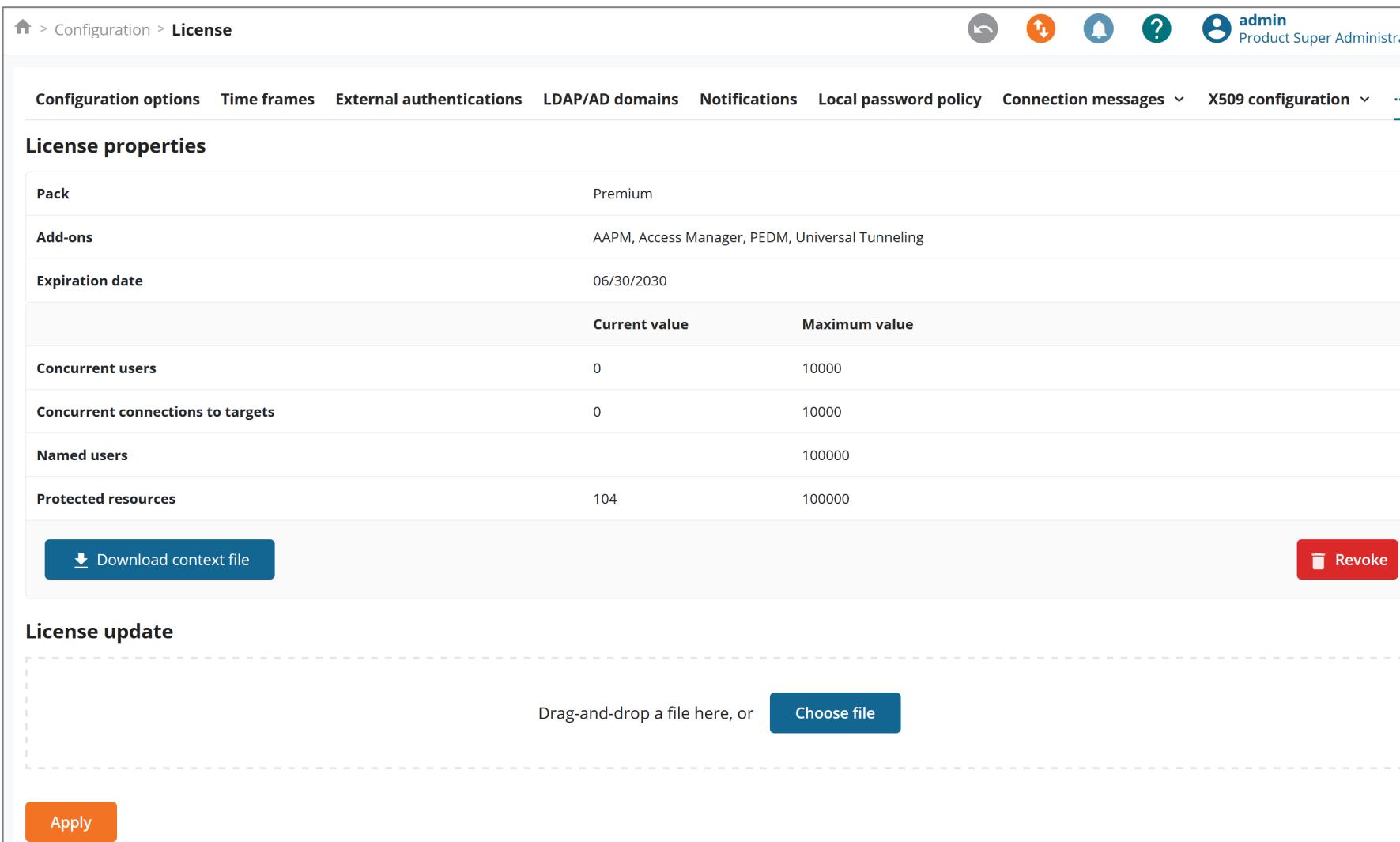
Remove user logs older than: 5

Remove all logs older than this number of weeks (with suffix w or no suffix) or days (with suffix d). Warning: If this value is higher than 'Remove user data older than', the log retention time will be reduced to the same value. The maximum retention log policy for logs is 365 days or 52 weeks. String, length ≥ 1 [default: "5"]

Apply Cancel

License improvement

- New license management system: packs, options and metric display improvement
- Integrated revocation capability



The screenshot shows the 'License' configuration page. At the top, there are navigation links: Home > Configuration > License. The top right features icons for user, notifications, and help, and the user 'admin Product Super Administrator'. Below the navigation is a horizontal menu: Configuration options, Time frames, External authentications, LDAP/AD domains, Notifications, Local password policy, Connection messages, X509 configuration, and a '...' button. The main content area is titled 'License properties' and displays the following data:

Pack	Premium		
Add-ons	AAPM, Access Manager, PEDM, Universal Tunneling		
Expiration date	06/30/2030		
Concurrent users	0	Maximum value	10000
Concurrent connections to targets	0	Maximum value	10000
Named users	100000		
Protected resources	104	Maximum value	100000

At the bottom of this section are two buttons: 'Download context file' and 'Revoke'.

Below this is a 'License update' section with a dashed box for dragging and dropping files, a 'Choose file' button, and an 'Apply' button.

KEY BENEFITS

- License management with integrated revocation system and fingerprint for license renewal
- Integrated capability to increase volume management of metrics

Product Lifecycle

End Of Life:

- WALLIX Bastion 6.0 – December 2020
- WALLIX Bastion 7.0 – April 2022
- WALLIX Access Manager 2.0 – May 2021
- WALLIX Access Manager 2.1 – March 2021

Migration compatibility

- All Access Manager version 2.0 and 2.1 are tested against the supported Bastions
- Tested migrations matrix:

		From	6.0	7.0	8.0	8.1
To	6.0	-	-			
	7.0	✓	-			
8.0	-	✓				
8.1		✓	✓			
8.2		✓	✓	✓	✓	

Long Term Release: Long Term releases benefit from 3 years of support & maintenance. Long Term releases terminology is "Releases X.0" [6.0, 7.0, etc.].

Hotfixes: WALLIX commits to develop hotfixes only for supported releases. WALLIX commits to develop hotfixes for Long Term supported releases and Intermediary supported releases

Thank You

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