

Université **IBM i**

19 et 20 novembre 2024

IBM Innovation Studio Paris

S11 – Présentation et démonstration d'IBM PowerSC – Gestion de la sécurité et de la conformité

19 novembre 13:30 - 14:30

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uui2024

#ibmi

#uui2024



Qu'est que Power**SC** 2.2



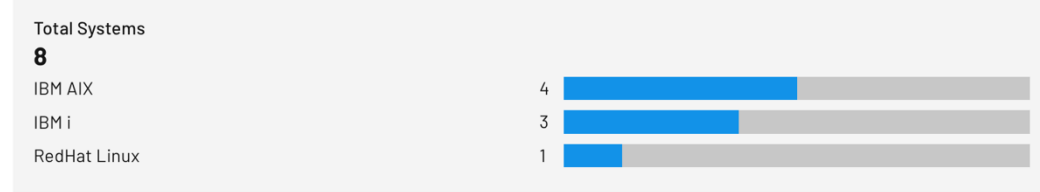
La version 2.2 de PowerSC est supportée sur Linux on Intel

IBM PowerSC 2.2 gère la
Sécurité et la Conformité des
environnements AIX, IBM i,
ou Linux qui tournent sur les
serveurs IBM Power.

PowerSC : Sécurité et Conformité des entreprises



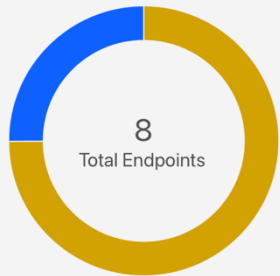
Endpoint Info



Compliance Status

Compliance Overview For Selected Group

All Systems ▼



- Not Applied
- Compliant
- Disconnected
- Non-compliant

[Apply](#) [Check](#)

Groups With Compliance Failures

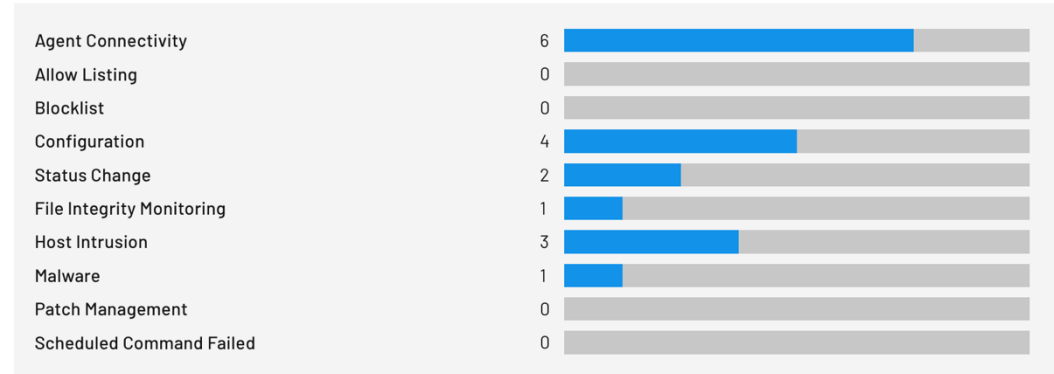
Group Name	Failures
No systems have been added	

Real Time Security

Total Events

Agent Connectivity 36	Allow Listing 0	Blocklist 0	Configuration 10
Status Change 6	File Integrity Monitoring 1	Host Intrusion 29	Malware 6
Patch Management 0	Scheduled Command Failed 0		

Endpoints with events



Up-to-date
0%



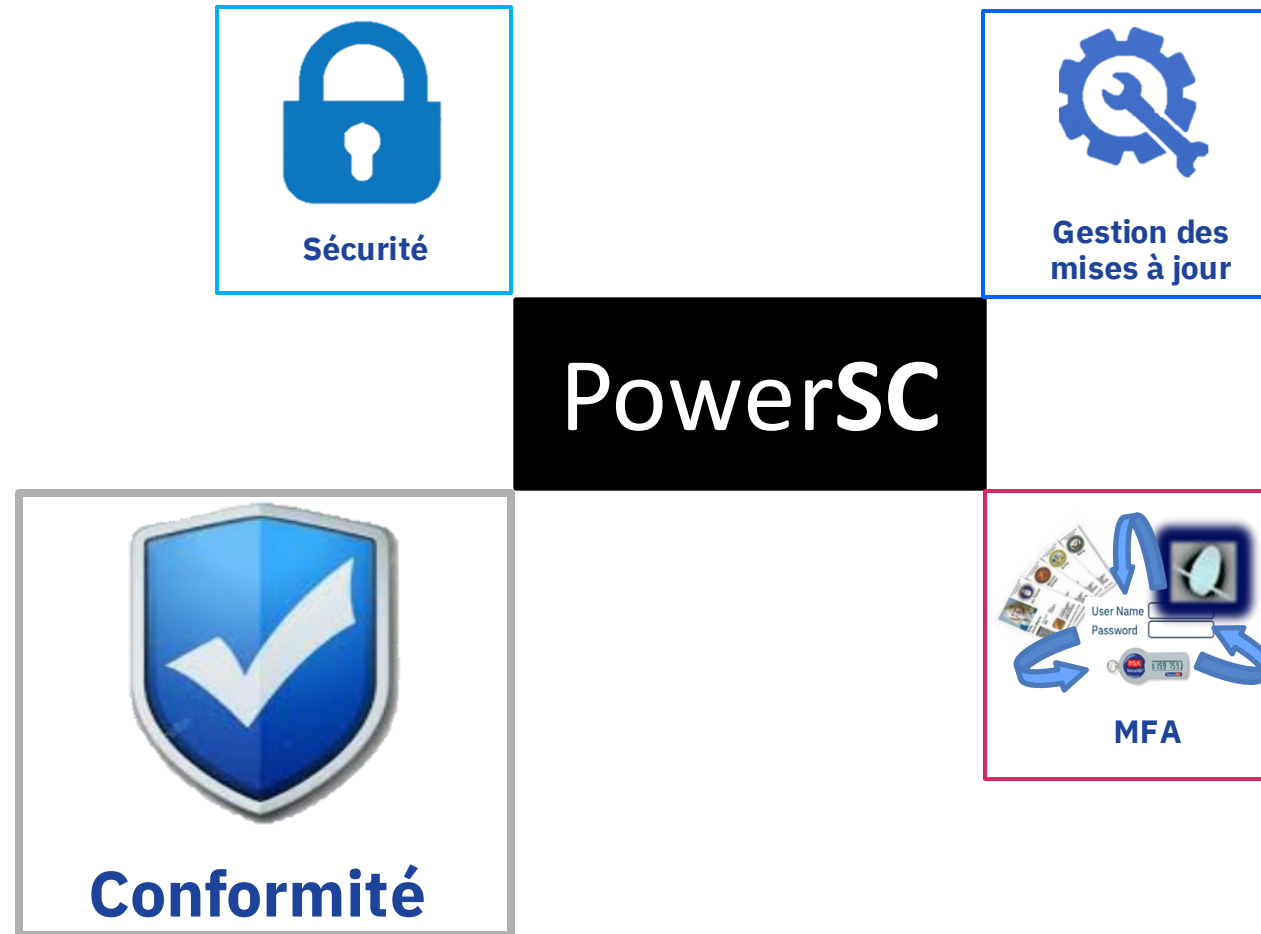
PowerSC : Sécurité et Conformité des entreprises



PowerSC



PowerSC : Sécurité et Conformité des entreprises





Conformité

- Régularisation automatique de conformité (PCI, GDPR, HIPAA, etc)
- Rapports préconçus, Timeline pour soutenir supporter les audits de sécurité et de conformité
- Interface graphique centralisant la gestion de tous les systèmes à partir d'une seule interface

PowerSC 2.2 Conformité



Onglet de Conformité Opérations de Conformité Opérations de Conformité

System Name	OS	Last Applied Type	Apply Timestamp	Check Timestamp	Check Passed	Check Failed	Check Status
<input type="checkbox"/> mfeaixpsdem.showbc.ibm.com	AIX IBM AIX	N/A	-	-	-	-	-
<input type="checkbox"/> MFEIBMIPSCDEM01	IBMi IBM i	IBMi_best_practices_Custom	6/3/2024, 6:39:34 PM	-	1	0	Passed
<input type="checkbox"/> MFEIBMIPSCST01	IBMi IBM i	IBMi_best_practices_Custom	2/7/2024, 10:40:49 AM	-	0	1	Failed
<input checked="" type="checkbox"/> mfeipcmfarsv.showbc.ibm.com	AIX IBM AIX	N/A	-	-	-	-	-

Simulated CISv1_Custom

Failed Rules:

- 6/3/2024, 11:52:50 PM cisv1_minlen:
The attribute minlen for user root should have value 8, but it is 10.
The attribute minlen for user daemon should have value 8, but it is 10.
The attribute minlen for user bin should have value 8, but it is 10.
The attribute minlen for user sys should have value 8, but it is 10.
The attribute minlen for user adm should have value 8, but it is 10.
The attribute minlen for user uucp should have value 8, but it is 10.
The attribute minlen for user guest should have value 8, but it is 10.
The attribute minlen for user nobody should have value 8, but it is 10.
The attribute minlen for user lpd should have value 8, but it is 10.
The attribute minlen for user lp should have value 8, but it is 10.
The attribute minlen for user sshd should have value 8, but it is 10.
The attribute minlen for user invscout should have value 8, but it is 10.
The attribute minlen for user snapp should have value 8, but it is 10.
The attribute minlen for user ipsec should have value 8, but it is 10.
The attribute minlen for user sures should have value 8, but it is 10.

Résumé de la Conformité

Endpoints

Résultat de la Conformité par règle

Profils De Conformité

Profils AIX

- GDPR, PCI, CIS, HIPAA, NERC, DoD STIG, SAP Hardening, Oracle Systems Hardening

Profils Linux

- GDPR, PCI, SAP Hardening, CIS, DoD, HMC Hardening (2024)

Profils IBM I

- IBM i best practices, CIS



PowerSC 2.2 Conformité – Rapports



Onglet rapports

IBM PowerSC Home Compliance Security **Reports** Profile Editor mferre Administrator

Reports <<

Compliance Overview for all systems

6/3/2024, 11:27:33 PM Hide Summary

System Passes and Failures

100% 3 Passes 0 Failures 0%

Total Rules Checked **5** Specific Rules Failed **0**

Connectivity Status: All Compliance Status: All Export to pdf

System Name	Last Applied Type	Apply Timestamp	Check Timestamp	Check Passed	Check Failed	Simulate Failed
mfeaixpsdem.showbc.ibm.com	N/A	-	-	-	-	2
MFEIBMIPSCDEM01	IBMi_best_practices_Custom	6/3/2024, 6:39:34 PM	-	1	0	-
MFEIBMIPSCST01	IBMi_best_practices_Custom	2/7/2024, 10:40:49 AM	-	0	1	-
mfepcmfasrv.showbc.ibm.com	N/A	-	-	-	-	-
mferhelpscdem.showbc.ibm.com	N/A	-	-	-	-	-
mfetncsrv.showbc.ibm.com	N/A	-	-	-	-	-
ppsibmimerlin.showbc.ibm.com	IBMi_best_practices_Custom	5/13/2024, 5:14:02 PM	-	-	-	1

Rapports de Conformité

Choisir un groupe

Résultat de la Conformité (par endpoint)

PowerSC 2.2 Conformité – Reports



Onglet rapports

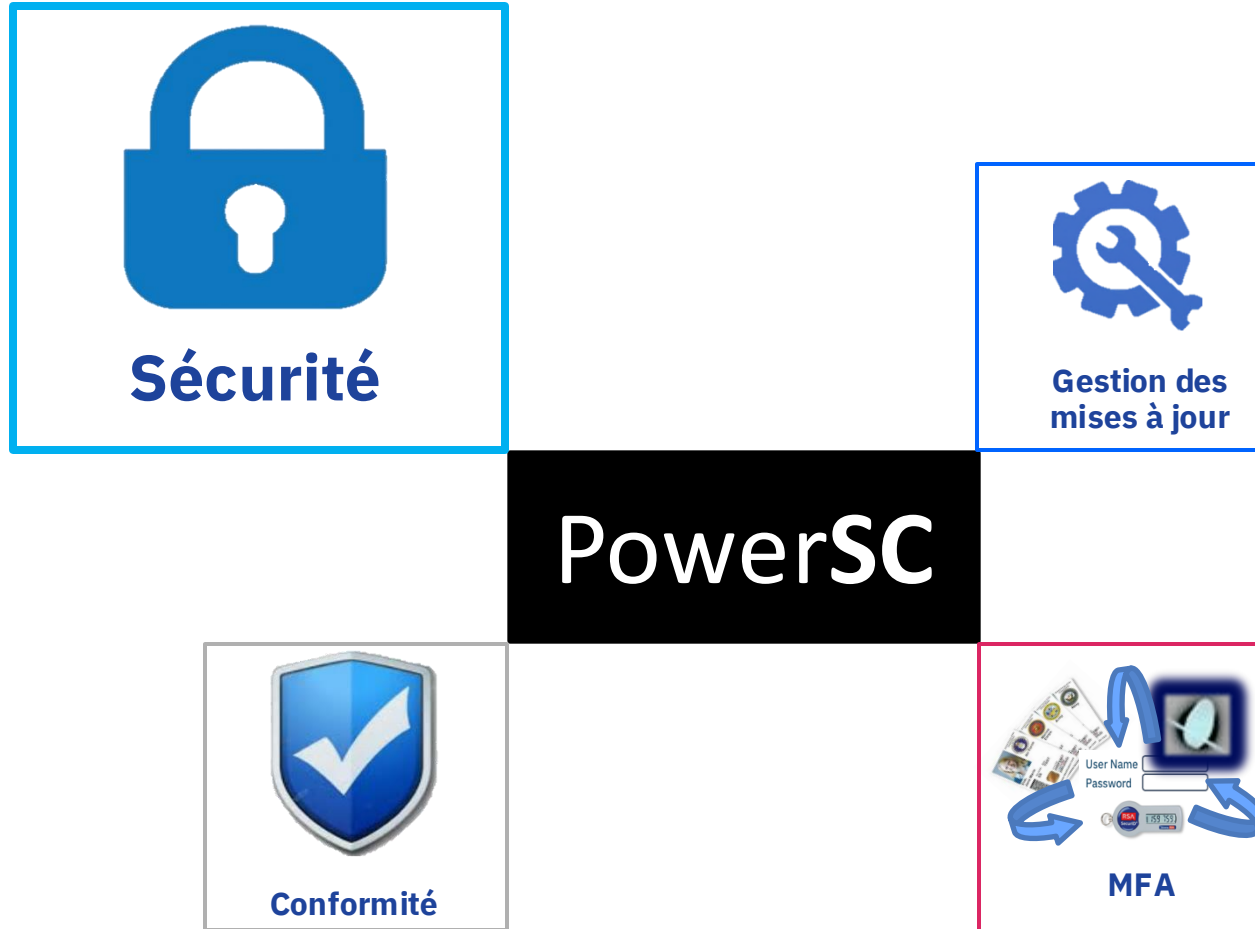
Rapports de conformité

Choisir un groupe

The screenshot displays the IBM PowerSC Reports interface. The top navigation bar includes 'Home', 'Compliance', 'Security', 'Reports', and 'Profile Editor'. The 'Reports' tab is active. The left sidebar contains a menu with options: 'Compliance Overview All Systems', 'Compliance Detail All Systems', 'File Integrity Overview All Systems', 'File Integrity Detail All Systems', 'Combined Compliance and FIM All Systems', 'Timeline MFEIBMIPSCDEM01', 'Event Analysis MFEIBMIPSCDEM01', and 'Malware Details No Group Selected'. The main content area is titled 'Compliance Detail for all systems' with a timestamp of '6/3/2024, 11:30:01 PM'. It features a progress bar showing '100%' with '3 Passes' and '0 Failures 0%'. Summary statistics include 'Total Rules Checked 5' and 'Specific Rules Failed 0'. There are filters for 'Connectivity Status' and 'Compliance Status', both set to 'All'. An 'Export to pdf' button is present. A table lists systems with columns: 'System Name', 'Last Applied Type', 'Apply Timestamp', 'Check Passed', 'Check Failed', and 'Simulate Failed'. The first system, 'mfeaixpscdem.showbc.ibm.com', has 2 simulated failures. Below the table, 'Failed simulated Rules:' are listed, including a rule for 'cisv1_minlen' with details for various users like 'root', 'daemon', 'bin', 'sys', 'adm', 'uucp', 'guest', 'nobody', 'lpd', and 'lp'. A second table at the bottom shows compliance results for endpoints: MFEIBMIPSCDEM01 (1 passed, 0 failed), MFEIBMIPSCST01 (0 passed, 1 failed), and mfepecmfasrv.showbc.ibm.com (N/A).

Résultat de la Conformité détaillé (par endpoint)

PowerSC: Sécurité et Conformité des entreprises





Security



Surveillance d'intégrité de fichier (FIM - File Integrity Monitoring)	Conformité en temps réel (RTC – Real Time Compliance)	Surveillance d'intégrité de fichier (FIM - File Integrity Monitoring)
	Trusted Execution (TE)	File Access Policy Daemon (fapolicyd)
Système de détection d'intrusion (IDS - Intrusion Detection System)	Système de détection d'intrusion (IDS - Intrusion Detection System)	Système de détection d'intrusion (IDS - Intrusion Detection System)
Trusted Firewall (TF)	Trusted Firewall (TF)	Trusted Firewall (TF)
	Trusted Boot (TB)	
	Trusted Logging (TL)	

PowerSC 2.2 Sécurité

- **FIM:** File Integrity Monitoring
- **RTC:** Real-Time Compliance (AIX)
- **IDS:** Intrusion Detection System (Port Scan on Linux, Password Failures, Agent Connectivity...)
- **TE:** Trusted Execution
- **TB:** Trusted Boot
- **TF:** Trusted Firewall
- **TL:** Trusted Logging
- **fapolicyd:** File Access Policy Daemon

Onglet Sécurité

The screenshot shows the 'Security' tab in the IBM PowerSC interface. It displays a summary of endpoints with events, total events, and a table of system details. The table includes columns for System Name, OS, FIM, Allow List, IDS, Alerts, and Actions. The 'Events' section below the table lists recent events such as 'Configuration: RTC Configuration Change Request Warning' and 'Agent Connectivity: Agent Disconnected'.

System Name	OS	FIM	Allow List	IDS	Alerts	Actions
mfeaixpscdem.showbc.ibm.com	AIX IBM AIX	1	X	X 19	0 34	
MFEIBMIPSCDEM01	IBM i	X	X		0 1	
MFEIBMIPSCST01	IBM i	X	X		0 1	
mfeipcmfarsv.showbc.ibm.com	AIX IBM AIX	✓	X	X 7	0 30	

Résumé des évènements de Sécurité

Endpoints

Etat de fonctionnement de la fonctionnalité

Nombre d'évènements

Evènements FIM (RTC/auditd/IBM i audit)

Evènements d'intrusion

TE/fapolicyd

The screenshot shows the 'Settings' page with various security features and their status. The 'Sub-product usage' section includes FIM, Allow List, Patch, IDS, Alerts, TB, TF, and TL. Each feature has a toggle switch indicating whether it is enabled or disabled.

- FIM:** The Linux Audit daemon (Auditd) [On], IBM i Audit [On], Real Time Compliance (RTC) [On]
- Allow List:** Trusted Execution (TE) [On], File Access Policy Daemon (fapolicyd) [On]
- Patch:** Up-to-date [On]
- IDS:** Intrusion Detection System (IDS) [On]
- Alerts:** Alerts [On]
- TB:** Trusted Boot (TB) [Off]
- TF:** Trusted Firewall (TF) [Off]
- TL:** Trusted Logging (TL) [Off]

Sélectionner les fonctionner à observer sur l'interface graphique

PowerSC 2.2 Sécurité – Rapports



Résumé des événements de sécurité par type sur l'ensemble des endpoints

Onglet rapports

IBM PowerSC Home Compliance Security **Reports** Profile Editor

Reports <<

File Integrity Overview for all systems
6/4/2024, 12:01:33 AM Hide Summary

Endpoints with events

Agent Connectivity	7	Allow Listing	0
Blocklist	0	Configuration	3
Status Change	2	File Integrity Monitoring	1
Host Intrusion	3	Malware	0
Patch Management	0	Scheduled Command Failed	0

Total Events

Agent Connectivity	Allow Listing	Blocklist	Configuration	Status Change	File Integrity Monitoring	Host Intrusion	Malware	Patch Management	Scheduled Command Failed
105	0	0	12	49	1	99	0	0	0

System Name **FIM** **Allow List** **Patch** **IDS**

mfeaixpscdem.showbc.ibm.com	🛡️ 1	×	—	×	19
MFEIBMIPSCDEM01	×	×	×	🛡️	
MFEIBMIPSCST01	×	×	×	🛡️	
mfepcmfasrv.showbc.ibm.com	✓	×	—	×	7
mferhelpscdem.showbc.ibm.com	✓	×	×	×	73
mfetncsrv.showbc.ibm.com	🛡️	×	—	×	
ppsibmimerlin.showbc.ibm.com	×	×	×	🛡️	

Rapport de sécurité

Choisir un groupe

Résumé des événements de sécurité par type et par endpoint

PowerSC 2.2 Sécurité – Rapports



Résumé des événements de sécurité par type sur l'ensemble des endpoints

Onglet Rapports

IBM PowerSC Home Compliance Security **Reports** Profile Editor

Reports <<

File Integrity Detail for all systems
6/4/2024, 12:04:03 AM Hide Summary

Endpoints with events

Agent Connectivity	7	Allow Listing	0
Blocklist	0	Configuration	3
Status Change	2	File Integrity Monitoring	1
Host Intrusion	3	Malware	0
Patch Management	0	Scheduled Command Failed	0

Total Events

Agent Connectivity	Allow Listing	Blocklist	Configuration	Status Change	File Integrity Monitoring	Host Intrusion	Malware	Patch Management	Scheduled Command Failed
105	0	0	12	49	1	99	0	0	0

System Name	FIM	Allow List	Patch	IDS
> mfeaixpscdem.showbc.ibm.com	⊗ 1	×	—	⊗ 19
> MFEIBMIPSCDEM01	×	×	×	⊗
> MFEIBMIPSCST01	×	×	×	⊗
∨ mfepcmfarv.showbc.ibm.com	✓	×	—	⊗ 7

File Integrity Events

1 RTC Switched ON

6/3/2024, 11:46:32 PM

Feature Name	RTC
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Rapports de Sécurité

Choisir un groupe

Evènements de sécurité détaillés par type et par endpoint

PowerSC 2.2 Autres rapports



Onglet rapports

The screenshot shows the IBM PowerSC interface. The top navigation bar includes 'Home', 'Compliance', 'Security', 'Reports', and 'Profile Editor'. The 'Reports' tab is active. On the left, a sidebar menu lists various report types: Compliance Overview, Compliance Detail, File Integrity Overview, File Integrity Detail, Combined Compliance and FIM, Timeline (selected), Event Analysis, and Malware Details. The main content area displays a 'Timeline for mfepcmfasrv.showbc.ibm.com AIX'. It features a filter menu with 'Events in list' selected, and date range filters for 'From: 03/14/2024' and 'To: Now'. A 'Show hidden events' checkbox is checked. The timeline shows a vertical list of events with timestamps and descriptions.

Timestamp	Event Description
6/3/2024, 11:47:41 PM	A GUI user "mferre" has submitted a change for RTC
6/3/2024, 11:46:32 PM	RTC was switched on
6/3/2024, 11:46:31 PM	A GUI user "mferre" has submitted a change for RTC
6/3/2024, 11:29:38 PM	A GUI user "<uiAgent>" has submitted a change for RTC
6/3/2024, 11:16:57 PM	Agent Disconnected
6/3/2024, 10:32:54 PM	Agent Connected
4/2/2024, 6:46:48 PM	Agent Connected
4/2/2024, 6:46:17 PM	Agent Disconnected

Choisir un endpoint

Timeline

Tous les évènements de Conformité et de Sécurité (pour 1 endpoint)

PowerSC 2.2 Autres rapports



Onglet rapports

The screenshot shows the IBM PowerSC interface. The top navigation bar includes Home, Compliance, Security, Reports (highlighted), and Profile Editor. The user is identified as mferre, Administrator. The left sidebar lists various report categories, with 'Event Analysis' for 'mfepcmfasmv.showbc.ibm.com' selected. The main content area displays 'Event Analysis for mfepcmfasmv.showbc.ibm.com' with filters for Urgency (Low: 9), Event category (All categories), Show (Active alerts only), and Timestamp (From 05/03/2024 to 06/03/2024). A table of alerts is shown with columns for Urgency, Event Category, Event Type, and Timestamp. A detailed view for a 'Compliance Rule Failure' event is expanded, showing details like Operation (checkByProfile), Compliance Level (CISv1_Custom), Compliance Status (Failed), Number Passed (0), and Number Failed (2). A 'Configuration' event is also visible at the bottom.

Urgency	Event Category	Event Type	Timestamp
Low	Compliance	Compliance Rule Failure	6/3/2024, 11:52:50 PM
Low	Compliance	Compliance Rule Failure	6/3/2024, 11:52:50 PM
Low	Compliance	Check	6/3/2024, 11:52:50 PM
Low	Configuration	A GUI user "mferre" has submitted a change for RTC	6/3/2024, 11:47:41 PM

Choisir un endpoint

Analyse d'évènements

Tous les évènements de Conformité et de Sécurité (pour 1 endpoint)

PowerSC: Sécurité et Conformité des entreprises





Onglet sécurité

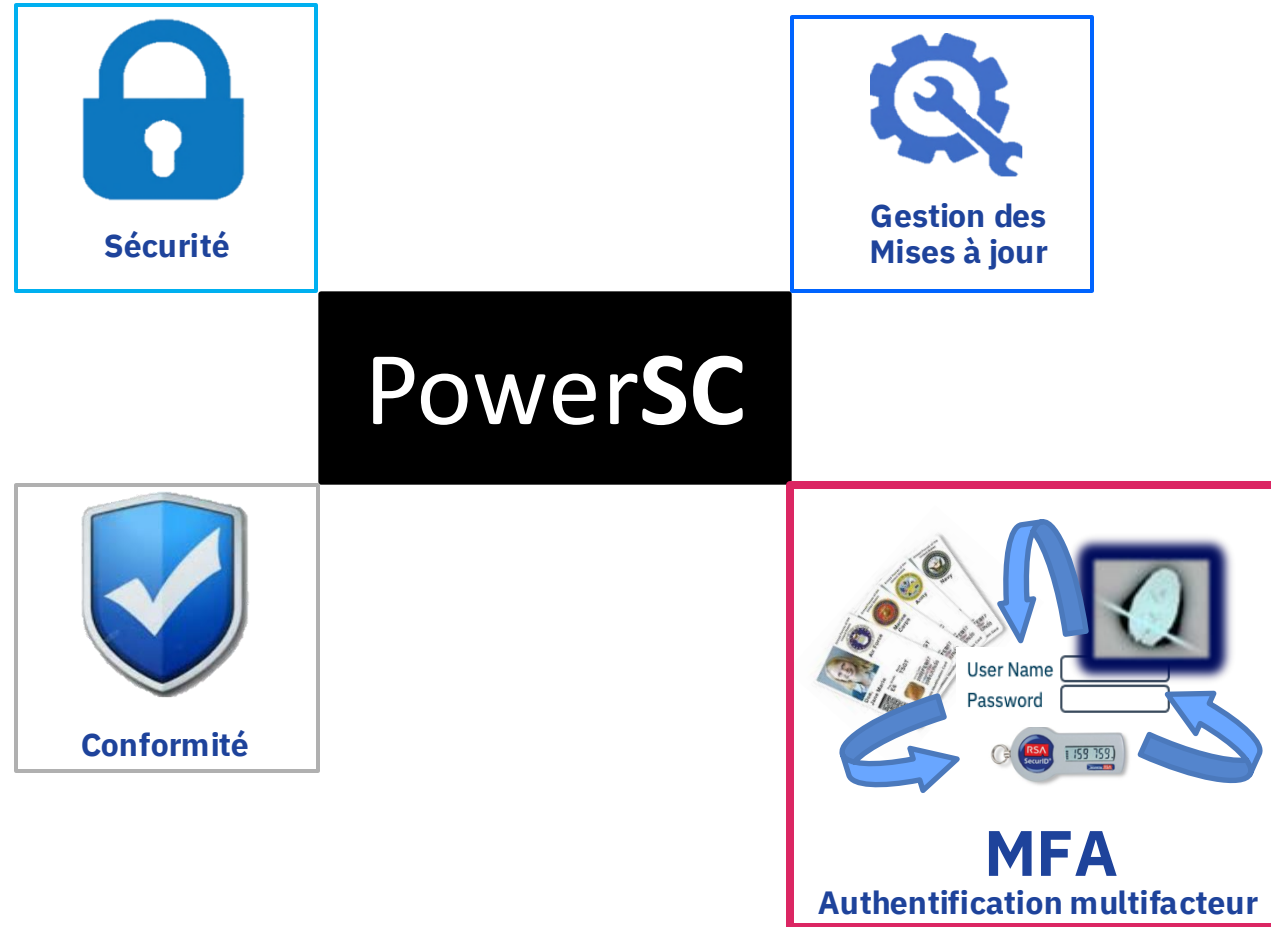
The screenshot displays the IBM PowerSC Security interface. The top navigation bar includes 'Home', 'Compliance', 'Security', 'Reports', and 'Profile Editor'. The user is identified as 'mferre Administrator'. The main view shows 'All Systems' with 7 systems. A 'Groups' sidebar on the left lists 'AIX', 'IBM i', and 'Linux'. The 'Endpoints with events' section shows a bar chart for various categories: Agent Connectivity (7), Blocklist (0), Status Change (2), Host Intrusion (3), Patch Management (0), Allow Listing (0), Configuration (3), File Integrity Monitoring (1), Malware (0), and Scheduled Command Failed (0). Below this is a 'Total Events' summary with 105 Agent Connectivity events and 49 Status Change events. A table lists systems with columns for System Name, OS, FIM, Allow List, Patch, IDS, Alerts, and Actions. The 'Events' section at the bottom shows two event types: Configuration : RTC Configuration Change Request Warning and Agent Connectivity : Agent Disconnected.

Statut du niveau de mise à jour

- ## Gestion de Mises à jour
- **IBM i** : visibilité sur le niveau d'OS
 - **Linux** (RHEL/SLES) : Mise à jour et verification du niveau des librairies de l'OS
 - **AIX** : intègre le Trusted Network Connect (TNC) – permet de créer des règles de mises à jour, vérifie la conformité des endpoints aux règles créées et permet de mettre à jour (selon une règle / un niveau d'OS : TL/SP fixé)



PowerSC: Sécurité et Conformité des entreprises





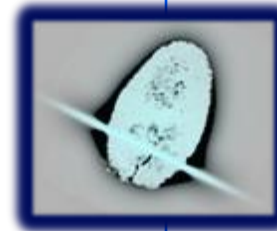
Facteurs d'Authentification

- Ce que l'on connaît
 - Mot de passe / code PIN
- Ce que l'on a
 - Badge / clé cryptographique
- Ce que l'on est
 - Empreinte digitales / données biométriques

Login

User Name

Password



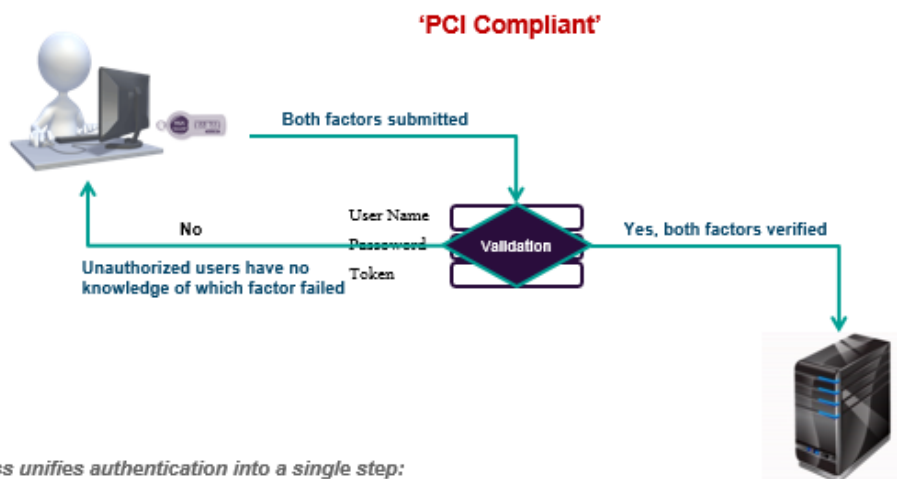
Au moins deux facteurs d'authentification à utiliser pour confirmer des **évidences d'identité différentes** pour avoir accès à un système.

Authentication Multifacteur

- Méthode de contrôle d'accès à une session utilisateur en s'authentifiant au travers la **preuve d'identité par plusieurs évidences simultanées**

Authentication Deux-facteur (2FA)

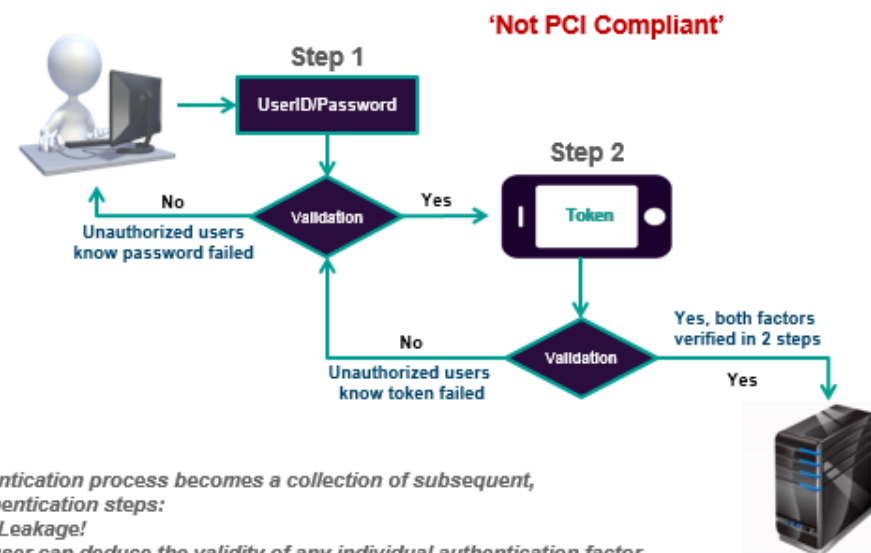
- Méthode d'authentification utilisant une combinaison de **deux différentes preuves d'identités simultanées**



The overall process unifies authentication into a single step:
All factors verified prior to the authentication mechanism granting the requested access.
> No Data Leakage!
No prior knowledge of the success or failure of any single factor provided.

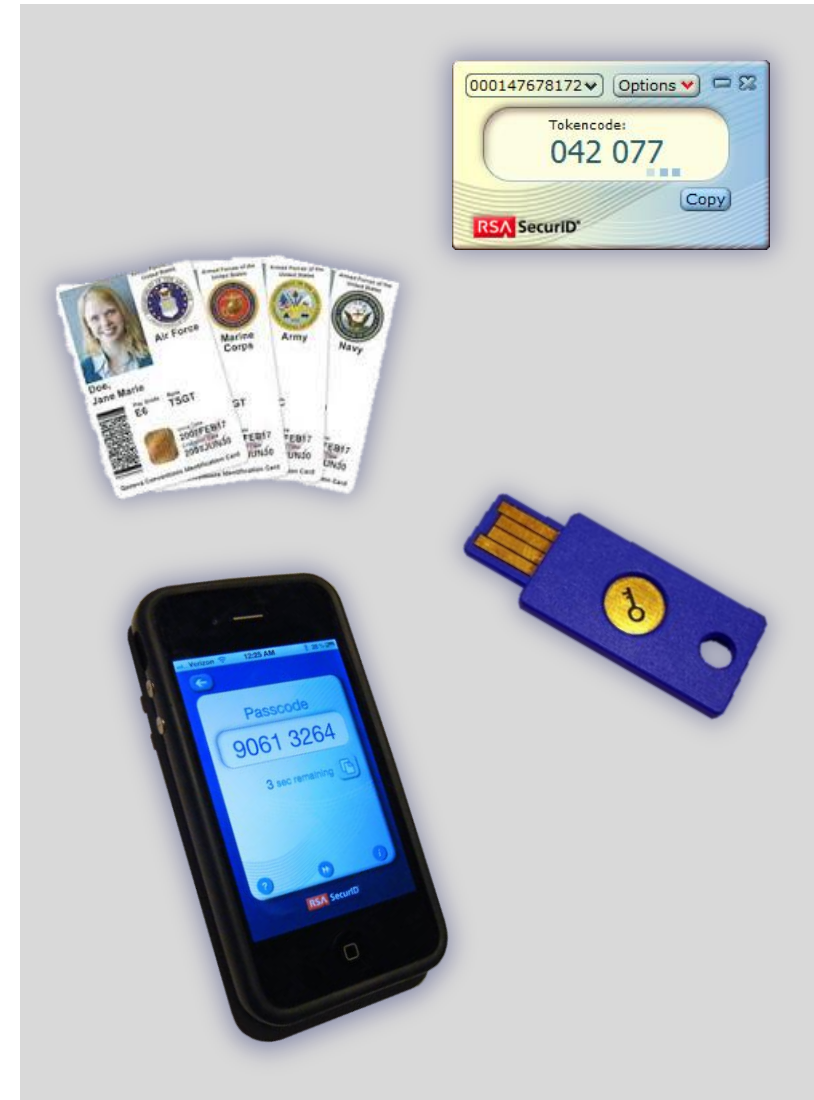
Authentication Multi-Etapes

- **Collection de facteurs d'authentification mono facteurs différentes, étape par étape**, l'accès à la méthode d'authentification suivante (ou à la session) ne se fait que si la (les) précédente(s) méthodes ont réussies



The overall authentication process becomes a collection of subsequent, single-factor authentication steps:
> Potential Data Leakage!
Unauthorized user can deduce the validity of any individual authentication factor

- RSA SecurID (via fob)
- PIN-protected certificates on PIV/CAC smart cards
- TOTP (IBM / Google Verify)
- Yubikey (via USB on laptop e.g.)
- Radius Protocol (Generic, Gemalto Safenet, RSA)
- Password / LDAP





- Administration centralisée de différents facteurs pour différentes populations d'utilisateurs
- Construction de règles d'authentications à partir de plusieurs méthodes d'authentification supportées
- ➔ *'Créez votre propre combinaison multifacteur'*
 - Combinez une authentification multifacteurs comme : "smart card + pin", avec une autre méthode d'authentification comme RSA or Yubikey ou encore juste un mot de passe
- Simplifiez l'authentification MFA
 - PowerSC MFA permet l'utilisation d'un token dérivé (CTC – Cache Token Credential) qui peut être utilisé à la place d'un mot de passe, et s'obtient à partir d'une authentification MFA



- Spécification des ports du serveur PowerSC MFA GUI, niveau de traçabilité...

Server Options

Base Security IBM i SSO

Initial trace level (0-3)
2

Prefer client-side CTC display Off

Enable certificate services Off

Enable TOTP services On

Enable Yubico enrollment services Off

Enable CTC Broadcaster services Off

Enable JWT CTC services Off

Enable Strict PCI mode Off

PKCS#11 Token Name *

Server Options

Base Security IBM i SSO

SSL trace level (0-3)
0

Trust Store Path

PKCS#12 Server Identity Path *
/etc/security/pmfa/certificates/test-server.pfx

PKCS#12 Server Identity Passphrase

Server Auth Port *
6793

Mutual Auth Port *
6794

- Activer / désactiver des facteurs

-

PowerSC MFA – Interface d'Administrative GUI: Configuration des facteurs



- Configuration des méthodes d'authentification :
 - Time-based One Time Password (token temporel à usage unique) – configuration du nombre de chiffre pour le token, durée de vie du token, algorithme d'encryption...
- IBM Security Verify Access: niveau de traçabilité, chemins vers les Certificats d'Authentification, ID du client...
-

The screenshot shows the 'Authentication Methods' tab in the IBM PowerSC MFA GUI. On the left, a list of methods includes 'Time-based One Time Password (TOTP)', which is selected. On the right, the 'Method Details' for TOTP are shown, including fields for 'Consecutive Failures Before TOTP Suspension' (set to 3), 'Trace Level' (set to 2), 'Web Services Trace Level' (set to 0), 'Realm Name' (mfaboiko), 'Digest Algorithm' (SHA256), and 'Token Digits' (set to 8). A 'Save' button is visible.

The screenshot shows the 'Authentication Methods' tab in the IBM PowerSC MFA GUI. On the left, a list of methods includes 'IBM Security Verify Access', which is selected. On the right, the 'Method Details' for IBM Security Verify Access are shown, including fields for 'Trace Level' (set to 0), 'Trusted CAs Path', 'Client ID', and 'Client Secret'. A 'Save' button is visible.



PowerSC MFA – Interface d'Administration : Configuration des règles



- Administration des règles : observer le contenu d'une règle, la supprimer, en créer une nouvelle

IBM PowerSC MFA

English Settings Logout

User Provisioning Policy Definitions Authentication Methods IBM i Servers

Policies + Add policy

Name	Description	CTC Timeout (sec)	CTC Reusable
TOTPANDPASSWD	TOTP and Password to log	180	true
TOTRONLY	Only TOTP	30	false

TOTPANDPASSWD

Policy Details Methods

Policy Description

TOTP and Password to log

Save

- Création d'une règle : choisir une ou plusieurs méthodes et configurer les paramètres par défaut des méthodes d'authentification

Create a New Policy

Details Methods

Policy Name*

Policy name cannot be more than 24 characters

Description*

CTC Timeout*

CTC timeout has to be a numeric value

CTC Reusable Off

Cancel Back Next

Create a New Policy

Details Methods

Name

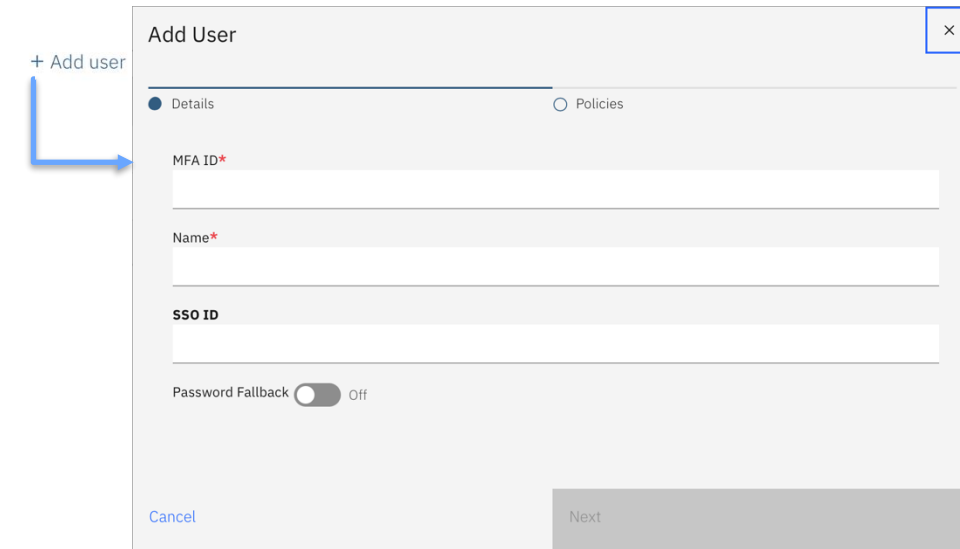
- PIV/CAC or X.509 Certificate
- IBM Security Verify Access
- LDAP Simple Bind
- PAM Authentication
- Generic RADIUS
- Thales SafeNet RADIUS
- RSA SecurID
- RSA SecurID Authentication API
- RSA SecurID RADIUS
- Time-based One Time Password (TOTP)
- Yubico OTP

Cancel Back Add Policy

PowerSC MFA – Interface d'Administration : Provisionnement d'utilisateurs



- Provisionnement d'utilisateurs depuis l'interface graphique



- Provisionnement par script

```
powerscmfa : /home/mferre # pmfauseringest user_list
powerscmfa : /home/mferre # sh pmfaprov1.sh
Tag Name = REGSTATE, Tag Value = OPEN
Tag Name = REGSTATE, Tag Value = OPEN
Tag Name = REGSTATE, Tag Value = OPEN
Tag Name = REGSTATE, Tag Value = OPEN
Tag Name = REGSTATE, Tag Value = OPEN
Tag Name = REGSTATE, Tag Value = OPEN
Tag Name = REGSTATE, Tag Value = OPEN
Tag Name = REGSTATE, Tag Value = OPEN
Tag Name = REGSTATE, Tag Value = OPEN
Tag Name = REGSTATE, Tag Value = OPEN
Tag Name = REGSTATE, Tag Value = OPEN
Tag Name = REGSTATE, Tag Value = OPEN
powerscmfa : /home/mferre # sh pmfaprov2.sh
Existing AZFTOTP1 tag data for user mferre:
REGSTATE: OPEN
KEYLABEL:
ALG:
NUMDIGITS: 0
PERIOD: 0
WINDOW: 0
TZERO: 0
CVALUE: 0
AZFTOTP1 tag data for user mferre after applying system defaults:
REGSTATE: OPEN
KEYLABEL:
ALG: SHA256
NUMDIGITS: 8
PERIOD: 30
WINDOW: 1
TZERO: 0
CVALUE: 0
Pending AZFTOTP1 tag data for user mferre:
REGSTATE: OPEN
KEYLABEL:
ALG: SHA256
NUMDIGITS: 8
PERIOD: 30
WINDOW: 1
TZERO: 0
CVALUE: 0
Committed AZFTOTP1 factor data for mferre.
Existing AZFTOTP1 tag data for user thucho:
```



PowerSC MFA – Interface d'Administration : Partitions IBMi



- Ajouter une partition IBM i comme client MFA :
 - Assigner un ID utilisateur de la partition IBM i à un ID utilisateur de la partition PowerSC MFA Server

IBM PowerSC MFA

User Provisioning Policy Definitions Authentication Methods **IBM i Servers**

IBM i Servers

Search servers

+ Add server

Server Details

Add a new IBM i server

Define S... Select... Input IBM i Pr...

Host Name*
IBMi_Server

Description

Cancel Back Next

Add a new IBM i server

Define Server **Select user** Input IBM i Pr...

MFA ID	Name
<input checked="" type="radio"/>	aapmfa PMFA
<input type="radio"/>	
<input type="radio"/>	
<input type="radio"/>	
<input type="radio"/>	
<input type="radio"/>	
<input type="radio"/>	
<input type="radio"/>	
<input type="radio"/>	
<input type="radio"/>	

Cancel Back Next

Add a new IBM i server

Define Server Select user **Input IBM i Profiles**

Associate User Profiles + Add

USERA

Cancel Back Add

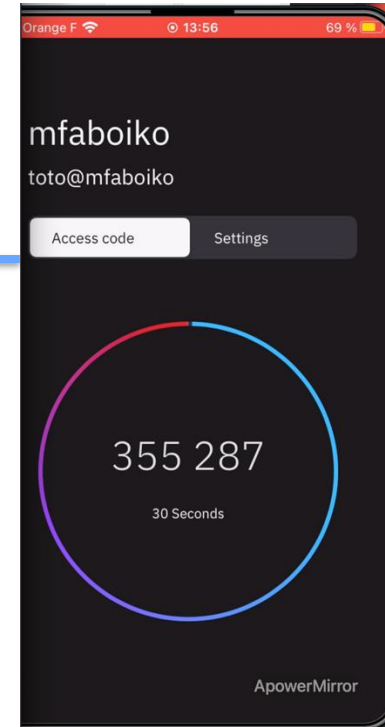


PowerSC MFA – Authentication d'un utilisateur



- Authentication "In-Band": à partir d'un terminal – Entrer le nom de la règle et répondre aux méthodes d'authentification spécifiées

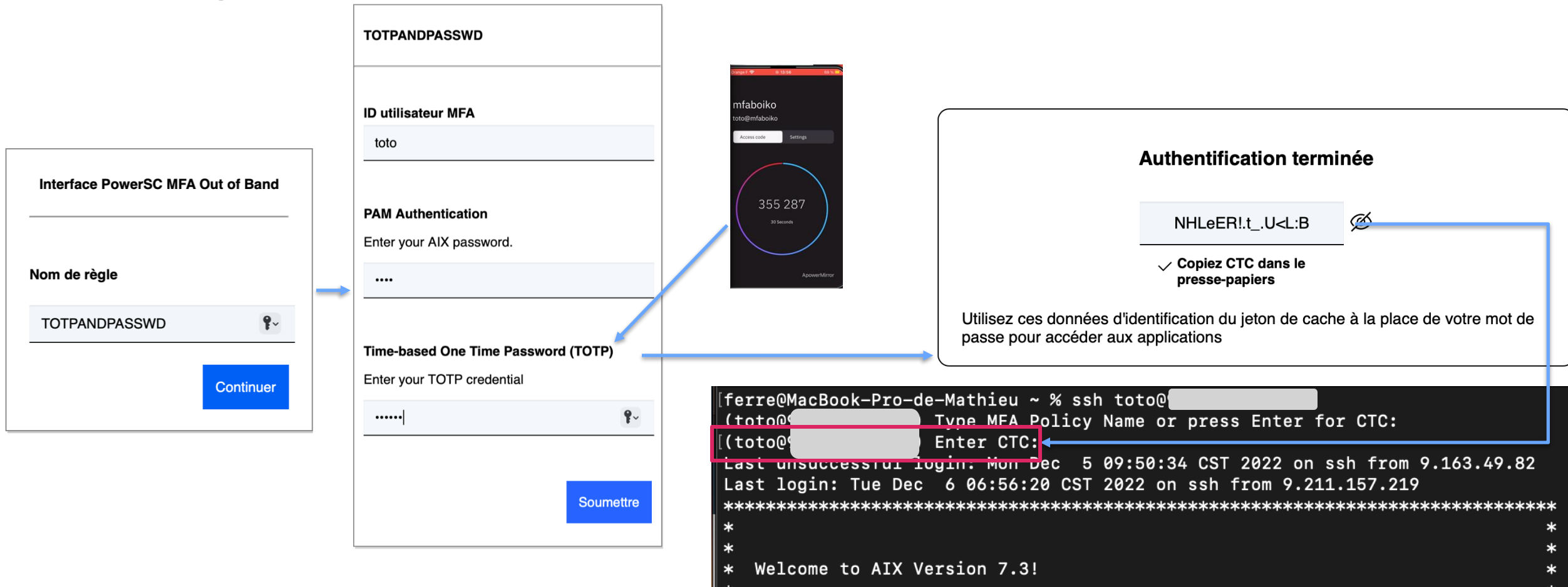
```
ferre@MacBook-Pro-de-Mathieu ~ % ssh toto@  
(toto@ Type MFA Policy Name or press Enter for CTC: TOTPANDPASSWD  
(toto@ Enter your AIX password.:  
(toto@ Enter your TOTP credential: ←  
Last unsuccessful login: Mon Dec 5 09:50:34 CST 2022 on ssh from  
Last login: Tue Dec 6 05:05:20 CST 2022 on ssh from  
*****  
* * * * *  
* Welcome to AIX Version 7.3! * * * * *  
* * * * *  
* Please see the README file in /usr/lpp/bos for information pertinent to * * * * *  
* this release of the AIX Operating System. * * * * *  
* * * * *  
* * * * *  
*****  
$
```



PowerSC MFA – Authentification d'un utilisateur



- Authentification “Out-of-Band” : A partir de l'interface graphique PowerSC MFA – Entrer le nom d'un règle (ou directement une URL pour cette règle), répondre aux méthodes d'authentification de la règle pour récupérer le token dérivé (CTC). Entrez le CTC dans le terminal.



PowerSC: Enterprise Security and Compliance



Sécurité

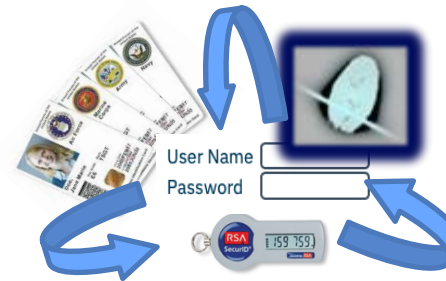


Gestion des
Mises à jour

PowerSC



Conformité



MFA
Authentication Multifacteur

PowerSC 2.2 – Les prérequis par composant et par OS



Prérequis (Component\OS)	AIX	Linux	IBM i
PowerSC GUI Server	AIX 7.1, ou après	Linux sur Power et Linux sur Intel: <ul style="list-style-type: none"> • RHEL 8.x, ou après • SLES 15 SP4, ou après 	COMING SOON (12/12/2024)
PowerSC GUI Agent	AIX 7200-04, AIX 7200-05 et AIX 7.3 Niveau minimum requis pour AIX 7.1 : 7100-05-05	Linux sur Power et Linux sur Intel: <ul style="list-style-type: none"> • RHEL 8.x, ou après • SLES 15 SP4, ou après 	IBM i v7R2M0, ou après
PowerSC MFA GUI Server	AIX 7.2 TL3, ou après AIX 7.3	Linux sur Power : <ul style="list-style-type: none"> • RHEL 8.1, ou après (RHEL 9.x non supporté) • SLES 15, ou après 	Sur IBM PASE for i IBM i v7r3, ou après
PowerSC MFA PAM Clients	AIX 7.2 TL3, ou après VIOS v2.2.5.20, ou après	Linux sur Power : <ul style="list-style-type: none"> • RHEL 8.1, ou après • SLES 15 	IBM i v7R2

PowerSC Téléchargez la version d'essai



- PowerSC 2.2 Essai de 90 jours
 - <https://epwt-www.mybluemix.net/software/support/trial/cst/welcomepage.wss?siteId=1287&tabId=3451&w=1>
- Le téléchargement requiert l'acceptation d'accord de licences
- Format de licence Try/Buy, permet une transition de la version d'essai à la version définitive production sans effet de transition

PowerSC 2.2 Trial

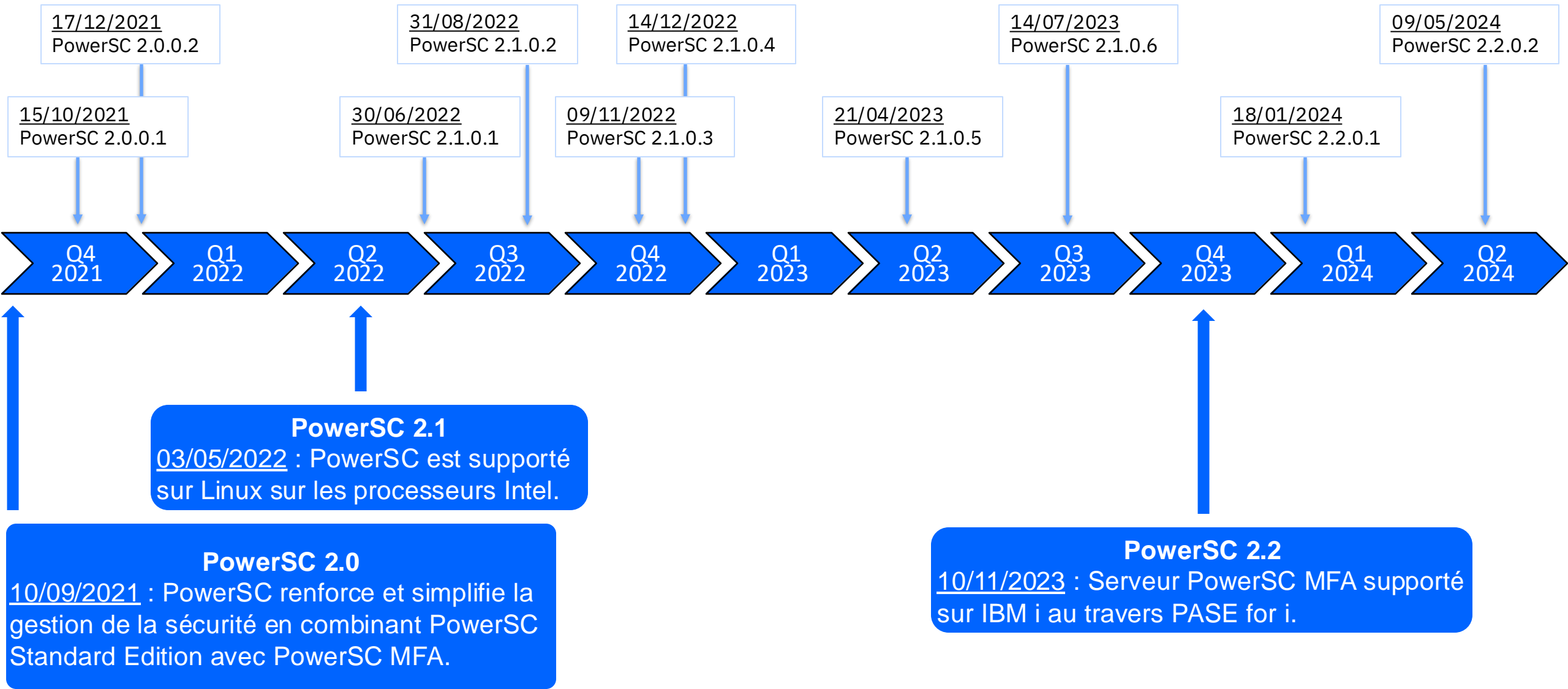
IBM PowerSC™ 2.2 Trial

Welcome! Thank you for your interest in the IBM PowerSC™ 2.2 Trial! During the 90 day trial period you will have access to this great product which simplifies the management of security for virtualized environments on Power System™ servers running AIX, Linux, and IBM i. During the trial period you will have the opportunity to use the production version of the product and evaluate if it delivers the necessary business value. You are encouraged to engage with your sales account manager to get answers to any questions you have. We also would encourage you to discuss your organizations' needs and challenges throughout this engagement to help shape our future product offerings.

Action Required:

This is a no cost program. To participate in the IBM PowerSC 2.2 Trial, please click on the 'Continue to Agreement' button below and accept the trial agreement which covers the terms that govern the trial.

PowerSC Annonces récentes



Merci pour votre attention

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