Integrated MFA and IBM i

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IBM.

Details on the Announce!

IBMi



https://www.ibm.com/support/pages/node/1119129



IBM i 7.6 Announce Details

https://www.ibm.com/support/pages/ibm-i-76-base-enhancements

IBM i 7.6 TR1 Announce Details



https://www.ibm.com/support/pages/ibm-i-76-tr1-enhancements

IBM i 7.5 TR7 Announce Details



https://www.ibm.com/support/pages/ibm-i-75-tr7-enhancements

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iSee – Multi Factor Authentication

DSecurity





https://learn.common.org/products/ibm-isee-video-blog



IBM i 7.6 Themes



- MFA
- Secure by Default
- Impersonation Protection
- DCM
- Encryption



- Final Table
- SQL Services
- SQE Performance improvements
- Security Improvements



- ACS
- VsCode Code for i
- Navigator



- GIT
- VsCode Code for i
- Modern RPG
- Code Assistant

IBMi

Multi-Factor Authentication (MFA)

A security feature that requires the user to provide a Time-based One-time Password (TOTP) in addition to a password

Something they **know**

Something they have

Something they are







Fingerprint



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Multi-Factor Authentication (MFA)

MFA on IBM i 7.6 is:

- Integrated into IBM i
- No gap between the password and MFA processing
- Enabled User by User
- · Works when in restricted state
- Supports System Service Tools (STRSST)
- No remote server needed
- Core access interfaces enabled
 - ACS
 - Telnet
 - Navigator
- Compatible with standard industry TOTP Client Authenticators (RFC 6238)

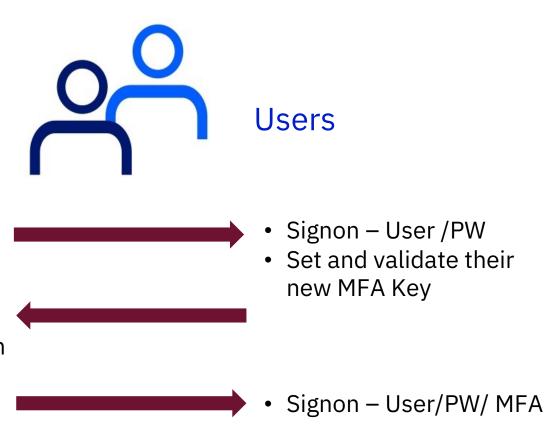




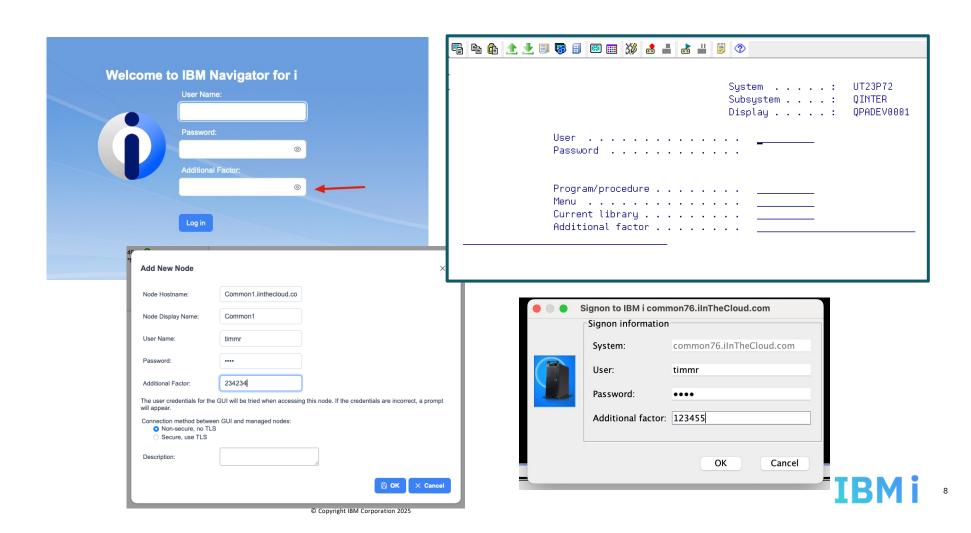
Everyone has a part to play....

Administrators

- Ready the system
- Notify users to play their part....
- Enable users for MFA once a MFA key has been set

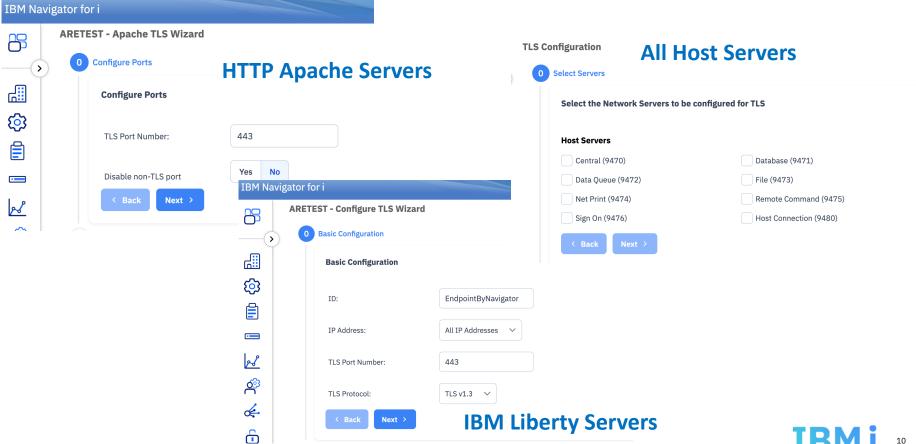


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Validate MFA Key and Save Recovery Key	× IBM
The new MFA key has been saved to your user profile. Validate that the MFA code allows this user profile to sign on, and then save the recovery key.	
1. Saved MFA Key: Using your client generator application, enter the MFA key below (without blanks) or scan the QR code GDFUSRYOJSVBZHYNOE7TQX23MKOJM7N7 GDFU SRYO JSVB ZHYN OE7T QX23 MKOJ M7N7	
2. Validate MFA Key: Enter your user profile password and the MFA code from your client generator application to validate that your user profile can sign on with MFA Password: MFA Code: Validate 3. Recovery Key:	
Save the recovery key in a safe place, it can be used in place of the user password as a one time recovery if the MFA key and code are not working E273115536A989E1486672EABF2E3844EA2BCAB611A2D4E99C0F2DCF581A2800	
✓ OK	

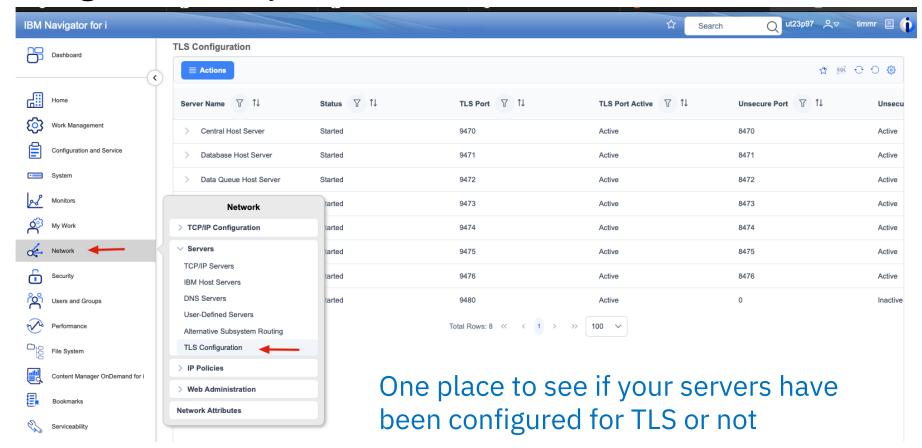
Configuring TLS



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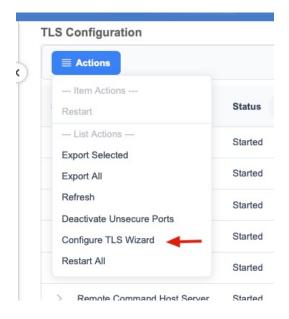
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Manage TLS for Key Servers



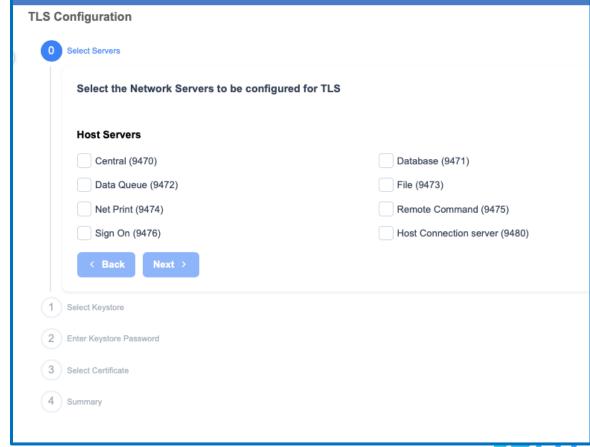
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TLS Configuration Made Easy



Configure all the host servers in one action!

Turn off the unsecure ports

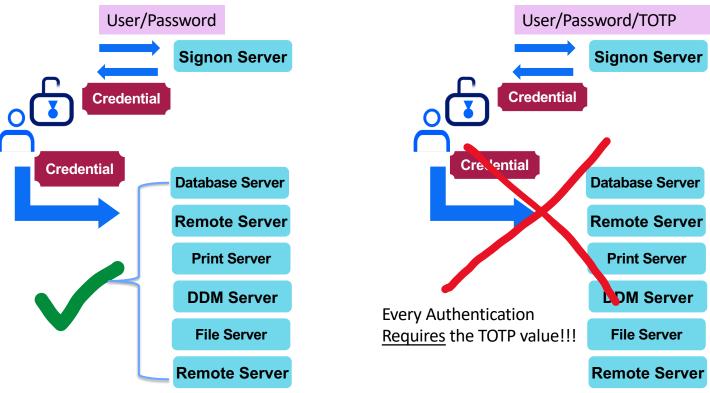


1

Host Connection Server

Today - User/Password

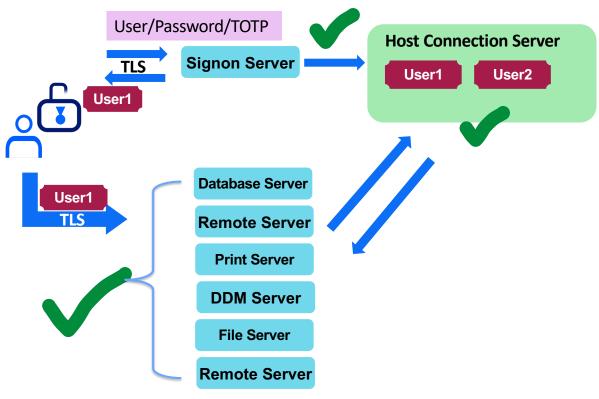
User/Password & TOTP





Host Connection Server

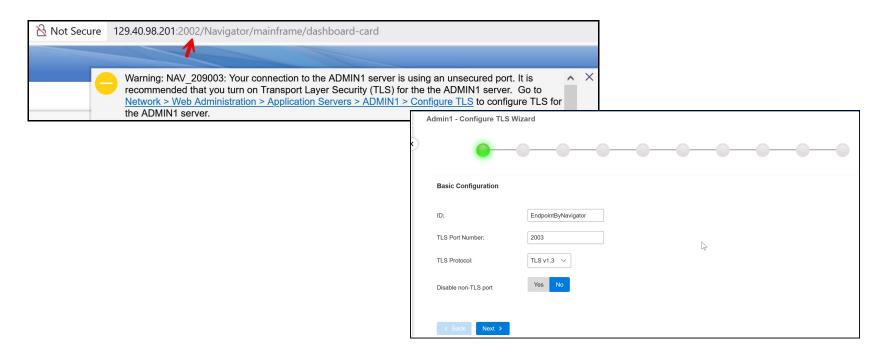
Today – User/Password & TOTP



IBM i

Secure/Encrypt Navigator for i Connection

- If Navigator communications are not encrypted, your system is at risk!
- IBM guidance:
 - https://www.ibm.com/support/pages/ibm-navigator-i-tls-encryption

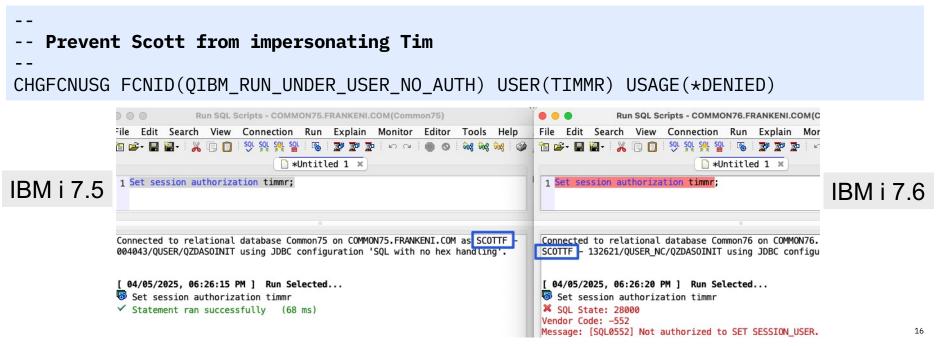


Protection from Impersonation



Restricts a user profile from being impersonated

- Prevents anyone from swapping to identity of the protected user profile
- Enabled via the QIBM_RUN_UNDER_USER_NO_AUTH Function Usage ID
- Independent of MFA



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IBM i Security Sessions for Even More Information!



Tuesday

- Securing IBM i in the Age of Cyber Threats Koen Decorte
- What's New in IBM i Security in IBM i 7.5 and 7.6 Carol Woodbury
- IBM i Security Best Practices Janus Hertz
- Using IBM Navigator in a Secure Manner Tim Rowe
- Inject more security into Db2 for i Scott Forstie
- Taking the Guesswork out of IBM i Security with Authority Collection Carol Woodbury

Wednesday

- 8:30 Securing and monitoring SSH on IBM i Stefan Dufaye
- 12:10 Ransomware and i Jesper Skov Johanson
- 12:10 Security Catalog for IBM i Rohit Chauhan
- 14:00 IBM i Security: A Dual Responsibility Steve Will and Carol Woodbury
- 16:30 IBM i Security with an SQL Chaser Scott Forstie and Carol Woodbury
- Thursday
- 10:30 IBM i Security Enhancements What's new Janus Hertz
- 10:30 Using Function Usage to Add another Layer of Security Carol Woodbury



IBM i 7.6 Features and **Functions**



Michael Miller

Larry Bolhuis Dean Mussari

Harold Nelson Ivaylo Bozhinov

Tim Rowe Steve Bradshaw

Rohit Chauhan Prashant Sharma

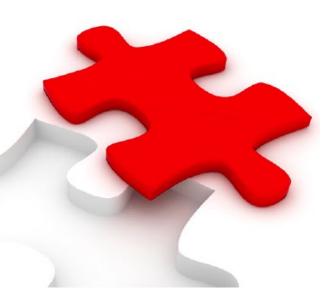
Ryan Cooper Shamej Sreedharan

Rudi van Helvoirt Scott Forstie

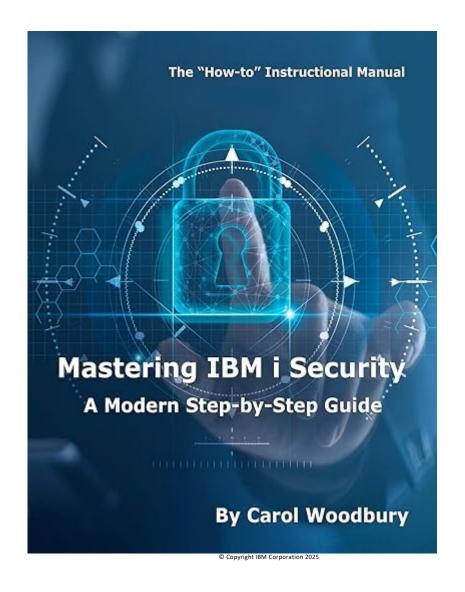
Tim Simon Ben Huntsman

Axel Lachmann

Marius le Roux



https://www.redbooks.ibm.com/redpieces/pdfs/sg248588.pdf



Mastering IBM i Security provides you with the how-to for using the modern interfaces provided in IBM i 7.5 and recent Technology Refreshes to manage your IBM i security configuration.

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