

JSU'S Cyber Security Awareness Training 2021

Training For Privileged Users

Training Agenda

- Identify a privileged user
- Identify common types of privileged accounts
- Identify risk associated with privileged accounts
- Identify Privileged user best practices

What is a Privileged User?

- A privileged user is a trusted user who has been authorized to have administrative access to critical systems
- A privileged user account provides a trusted user with administrative or specialized levels of access based on elevated levels of permissions (thycotic.com).

Common Privileged Users

- Typically privileged user accounts are used by IT employees such as:
 - Chief Information Officers
 - Chief Technology Officers
 - ✓ System Administrators
 - ✓ Database Administrators
 - Network Administrators
 - Email Administrators
 - ✓ Webmasters
 - Application Developers, contractors, third party vendors

What Do Privileged Users Do?

 A privileged user may be given elevated privileges to perform job duties such as:











hardware/ software

Reset
Passwords
for others

Log into all machines info on the network

Change IT infrastructure k systems

Access sensitive datasets

Value of a Privileged User

- Having Access to critical systems makes privileged users a very important asset to Jackson State University
- It also makes privileged users and their account information a big target for hackers and cyber criminals
- Privileged user accounts; abused or unmonitored have led to at least 74% of data breaches (securis.com)

Attacks on Privileged User Accounts

- Once a hacker gets their foot in the door via privileged user accounts, they can access:
 - ✓ System applications
 - Critical data sets containing confidential information
 - Perform key administrative functions

Attacks on Privileged User Accounts

Having Access also allows hackers to:

- ✓ Impersonate a JSU employee
- Create ongoing access into the JSU network and its' confidential data
- Steal confidential information
- Cause short term and long term damage to a company's network and other assets

Privileged Users Responsibilities

 As a privileged user always make sure to do your part by taking cyber awareness training for privileged users and by:

Following privileged user **best practices** and JSU workplace policies:

Become familiar with JSU's policies

- ✓ Passwords and Change Management
- ✓ Systems Network Share and Storage
- ✓ Cyber Incident Response

Privileged User Accounts Best Practices

- Use the concept of least privileges when creating accounts: Only give the user enough access to perform their specific job duties
- Use strong complex passwords to protect privileged user accounts
- Change your privileged user passwords as often as JSU's policies require

Privileged User Accounts Best Practices

- Avoid using the same passwords for multiple privileged and non privileged user accounts
- Conduct audits, monitor, and/or disable default accounts, and inactive accounts
- Do not use privilege user accounts to perform standard nonprivilege user routine tasks

Privileged User Database Best Practices

- Create and perform proper database backups as often as possible
- Ensure that the connection to the database is secure
- Ensure that the database credentials are not misused
- Remember to remove third party accounts or temporary accounts when access is no longer needed

Privileged User Server Best Practices

- Always remember to sign out of servers after each session
- Ensure server patches and updates are made in a timely fashion
- Notify appropriate JSU IT staff and other affected JSU employees when performing server maintenance and updates
- Create and perform proper backups as often as possible

Networks and Data Centers Best Practices

- Avoid allowing unauthorized users not on the data center checklist inside the data center
- Make sure to secure all data center doors and locks upon exiting data center
- Ensure security through access controls, backups and firewalls



Privilege User Data Security Best Practices

If you are a privileged user that handles or access confidential PII data (ex. FERPA, GLBA, HIPAA, Class Schedules, Grades etc.)

- Avoid allowing unauthorized users access to PII data without a "legitimate educational interest"
- Make sure to secure or encrypt any locally stored PII data
- Practice a clean desk policy if you have paper documents or reports generated with confidential/PII data
- Avoid transmitting electronic confidential/PII data internally or externally if it is not encrypted or protected

Contact Information

 Report an Incident, Suspicious Activities or Question to: the CIO, CTO, or JSU Cyber Security Personnel immediately.

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REFERENCES

The Following sources were used in this privileged user training

- https://thycotic.com/company/blog/2020/03/03/privileged-users/
- https://securis.com/news/74-of-data-breaches-start-withprivileged-credential-abuse/
- https://www.jsums.edu/jsu-cyber-awareness/jsu-informationtechnology-policies/