

Primary Access Token Manipulation

Exercise 1: Understanding Tokens

Objective:

Familiarize users with access tokens and their components.

Software:

- Process Explorer

Steps:

1. View Current Token Privileges

1. Open **Command Prompt (CMD)** as an administrator (Keep this open for the next exercise).
2. Run the following command:

```
whoami /all
```

3. Observe and document the privileges listed under "Privileges Information".
 - **Example:** SeDebugPrivilege
 - **Explanation:** SeDebugPrivilege gives a user the ability to debug any process that belongs to another account. This is mostly employed by system administrators and developers.

2. Explore Tokens

1. Open the **Process Explorer** software as the system administrator.
2. Find out the process in the list that corresponds to the CMD that you have opened.

3. Click on 'cmd', then right-click on the process and click on 'Properties'.
4. To see the token information, go to the "Security" tab.
5. Identify and document the following components of the token: Identify and document the following components of the token:
 - **User SID:** Security Identifier of the user. (**Usually at the top**)
 - **Group SIDs:** Security Identifiers of the groups that the user is a member of. (**You will need to click the row you want to display this SID**)
 - **Privileges:** List of privileges which are granted to the token.

3. Analyze Token Components

1. Research the significance of each token component.
 - **Example Privilege: SeDebugPrivilege**
 - **What it enables:** Allows debugging of processes, which can be critical for troubleshooting and system management.
2. Document the findings in detail, explaining the role and impact of each privilege and component.