

### **Application Description:**

The conference management system is a web based application that provides conference managers and administrators the ability to create and manage conferences along with the conference users.

### **Users:**

- Administrators:
  - Create conferences and make financial transactions with the credit card processor and the bank.
- Conference Organizer:
  - Create custom conference registration site, query and download conference registrations, change registration details for conference attendees, and issue refunds.
- Conference Attendee:
  - Register and pay for conference.

### **External Dependencies:**

- Application Web Server:
  - Used to host the web application and host the authentication data.
- Database Server:
  - Used to host the registration and financial data bases.
- Bank:
  - Used to transfer funds to the conference organizer.
- Credit Card Processor:
  - Used to process credit card transactions between the site and the conference attendees.

### **Entry Points:**

- Administration page:
  - Allows administrators to create conferences and make financial transactions with the credit card processor and the bank.
  - Should be restricted to administrators only.

- Conference Management page:
  - Allows Conference Organizers to create custom conference registration site, query and download conference registrations, change registration details for conference attendees, and issue refunds.
  - Should be restricted to Conference Organizers only.
- Conference Registration page:
  - Should only allow users to register to the site nothing else.

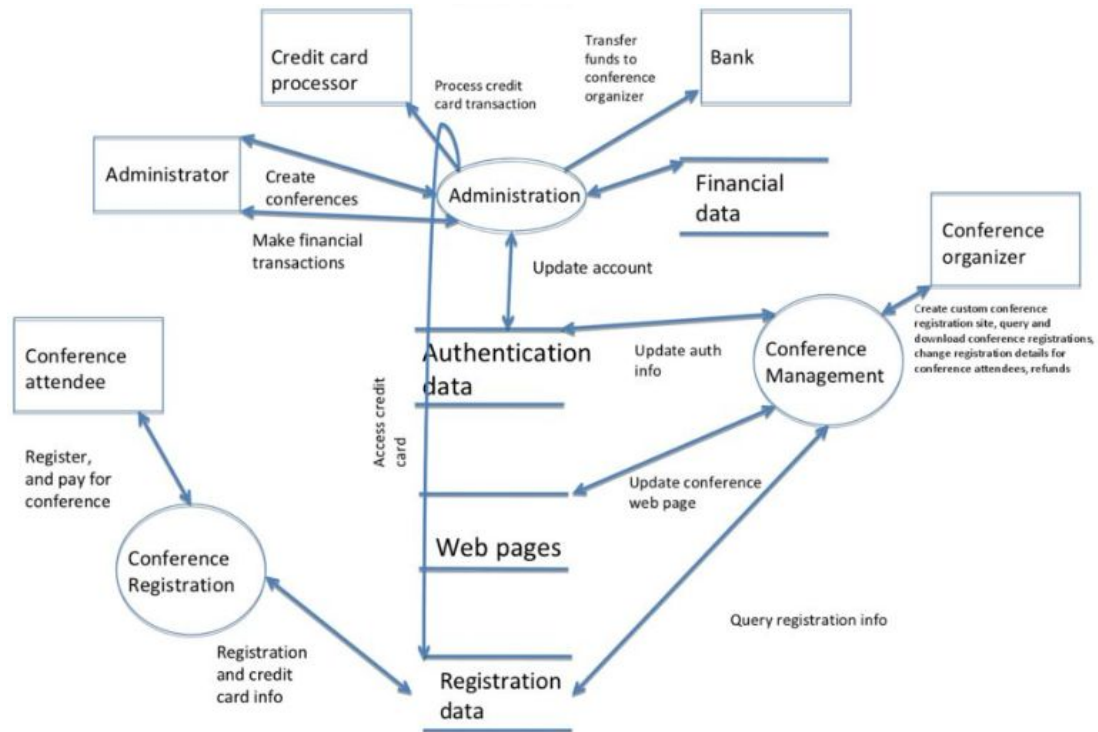
### Assets:

- User registration data:
  - Registration and credit card data relating to conference attendees.
- Authentication data:
  - Administrator and Organizer user login details.
- Financial data:
  - Financial data pertaining to the conferences including transactions, credit card, and banking account data.
- Availability of registration, administration, and management pages and functionality:
  - The pages should be up and functioning.
- Availability of the databases:
  - The databases should be up and functioning

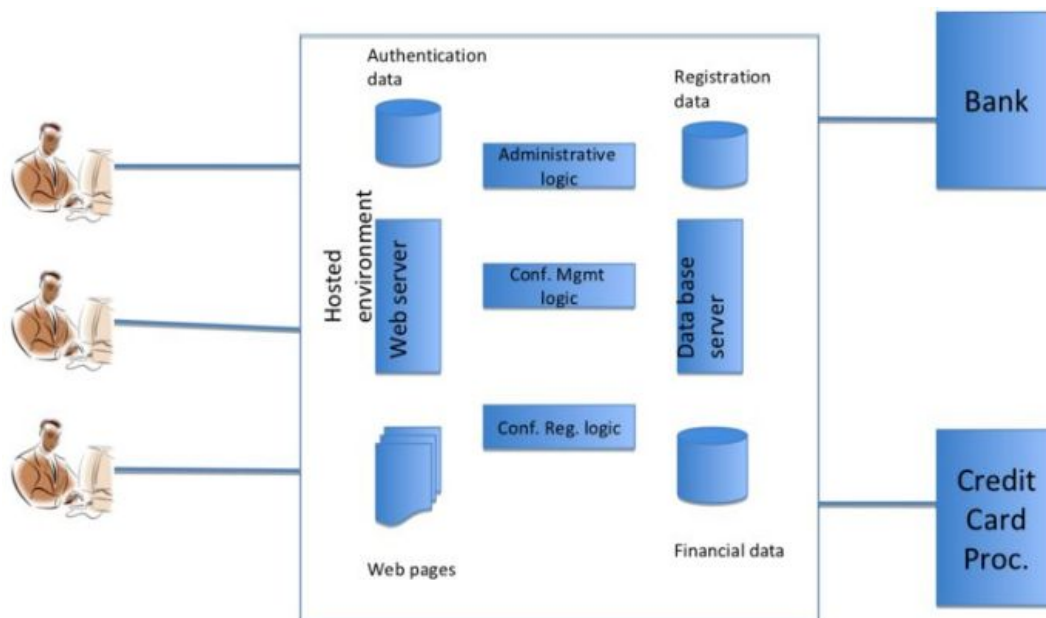
### Context Diagram:



## Data Flow Diagram:

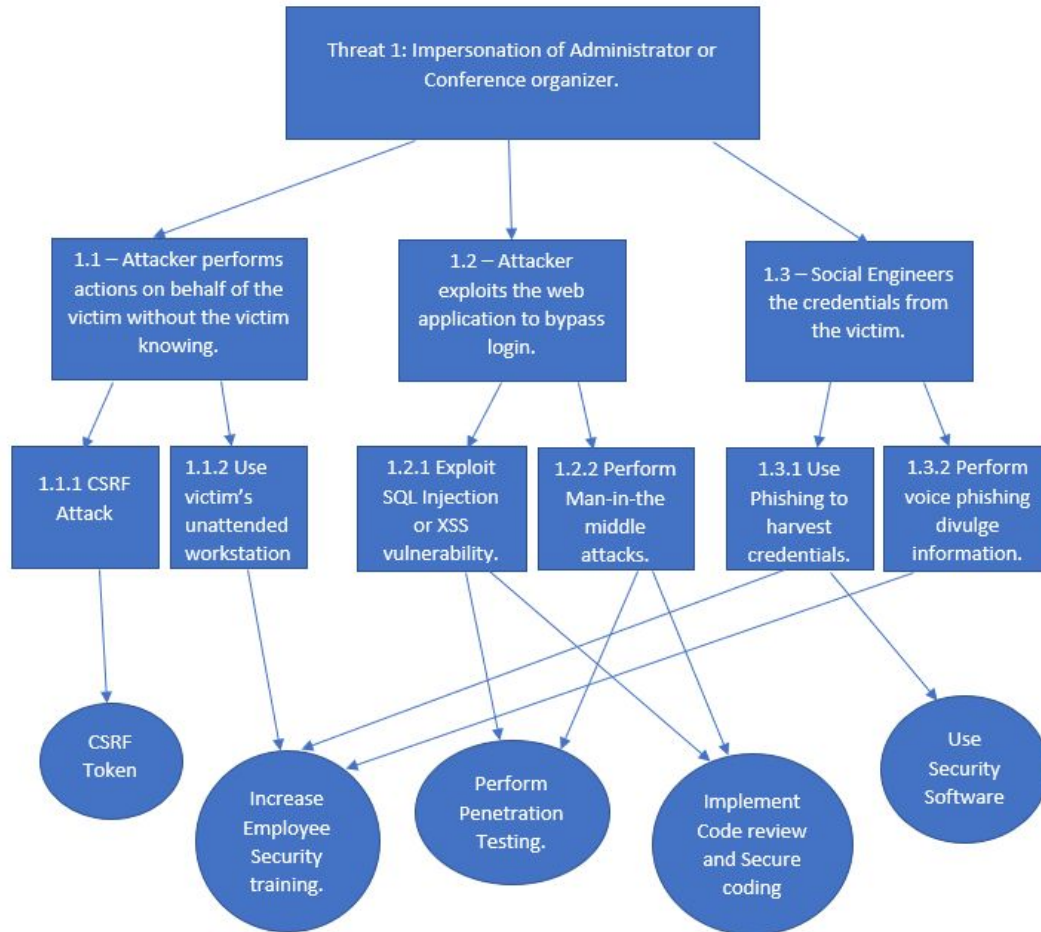


## Physical System View:



## Threats:

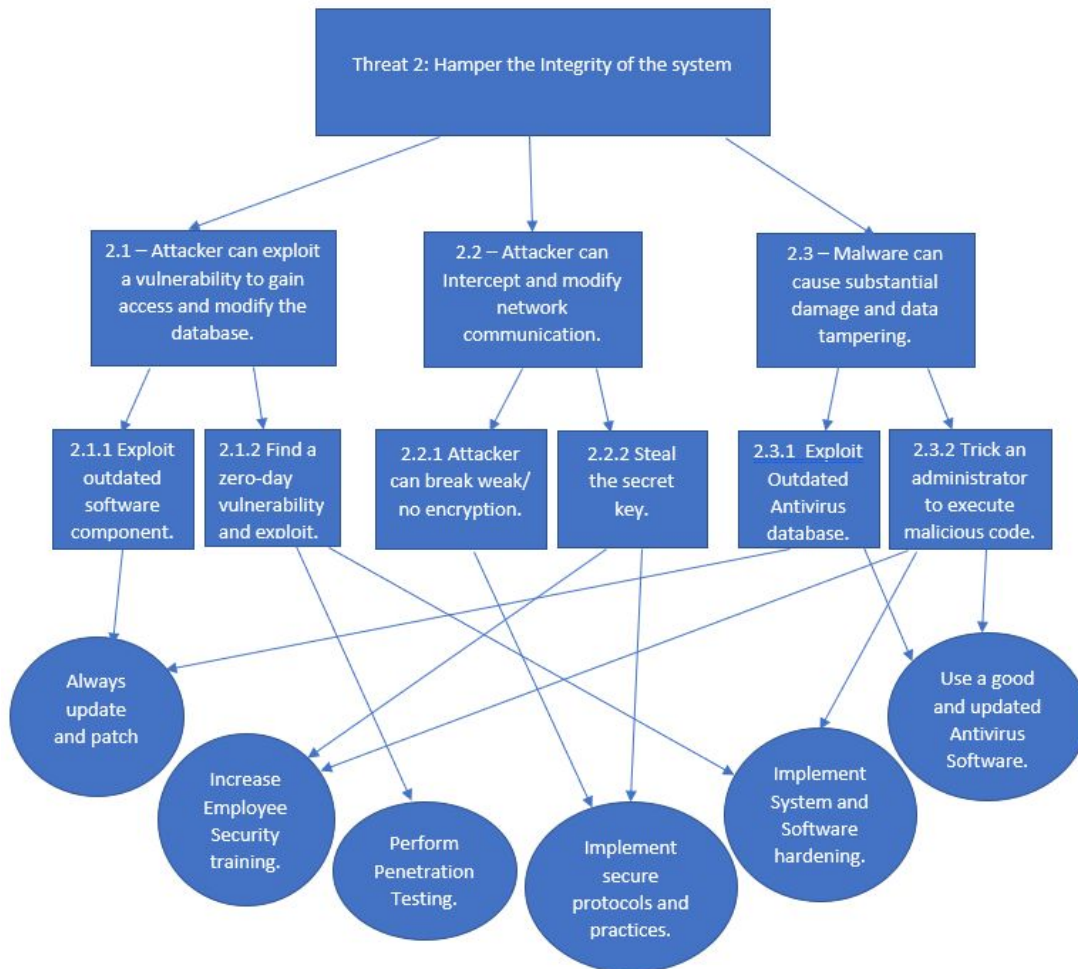
- **Threat 1:**
  - Category: Spoofing



DREAD Score = 15

D	Damage potential	High (3) - The attacker can get full trust authorization; run as administrator; upload content.
R	Reproducibility	High (3) - The attack can be reproduced every time and does not require a timing window.
E	Exploitability	High (3) - A novice programmer could make the attack, and then repeat the steps.
A	Affected users	High (3) - All users can be affected.
D	Discoverability	High (3) - The vulnerability is in a commonly used feature.

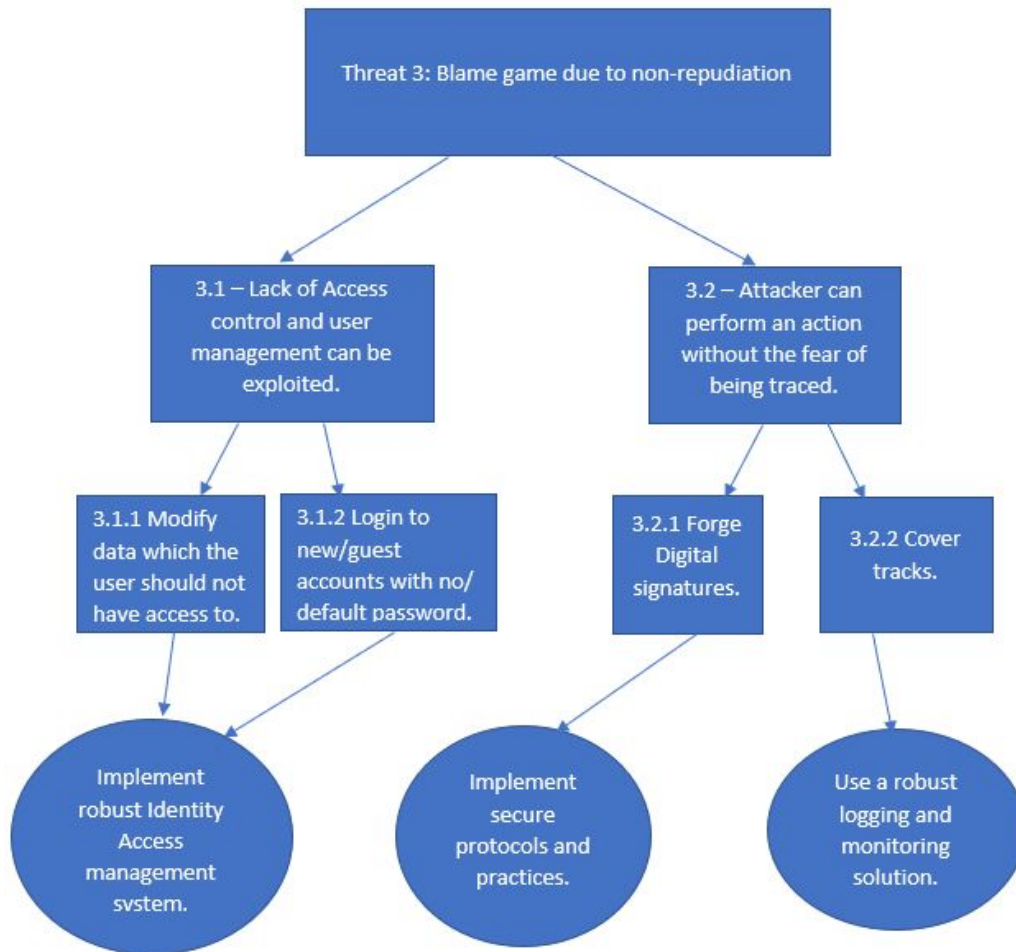
- **Threat 2:**
  - Category: Tampering



DREAD Score = 15

D	Damage potential	High (3) - The attacker can get full trust authorization; run as administrator; upload content.
R	Reproducibility	High (3) - The attack can be reproduced every time and does not require a timing window.
E	Exploitability	High (3) - A novice programmer could make the attack, and then repeat the steps.
A	Affected users	High (3) - All users can be affected.
D	Discoverability	High (3) - The vulnerability is in a commonly used feature.

- **Threat 3:**
  - Category: Repudiation



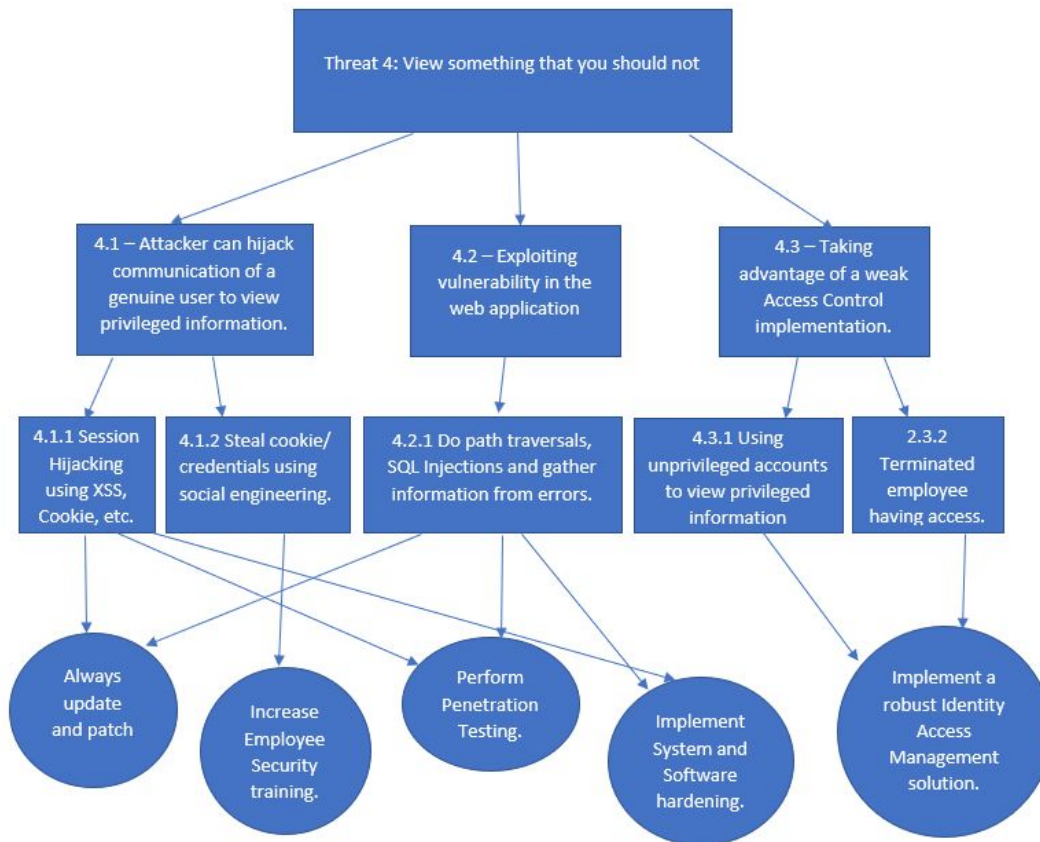
DREAD Score = 15

D	Damage potential	High (3) - The attacker can get full trust authorization; run as administrator; upload content.
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#### Threat 4:

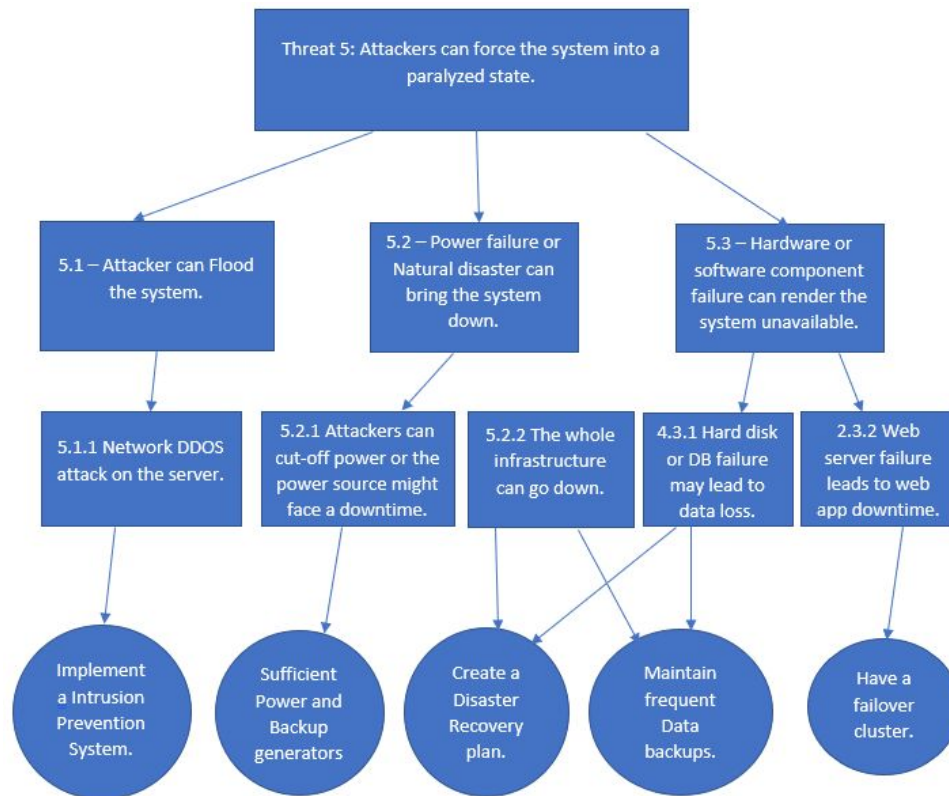
- Category: Information Disclosure



DREAD Score = 15

D	Damage potential	High (3) - The attacker can get full trust authorization; run as administrator; upload content.
R	Reproducibility	High (3) - The attack can be reproduced every time and does not require a timing window.
E	Exploitability	High (3) - A novice programmer could make the attack, and then repeat the steps.
A	Affected users	High (3) - All users can be affected.
D	Discoverability	High (3) - The vulnerability is in a commonly used feature.

- **Threat 5:**
  - Category: Denial of Service

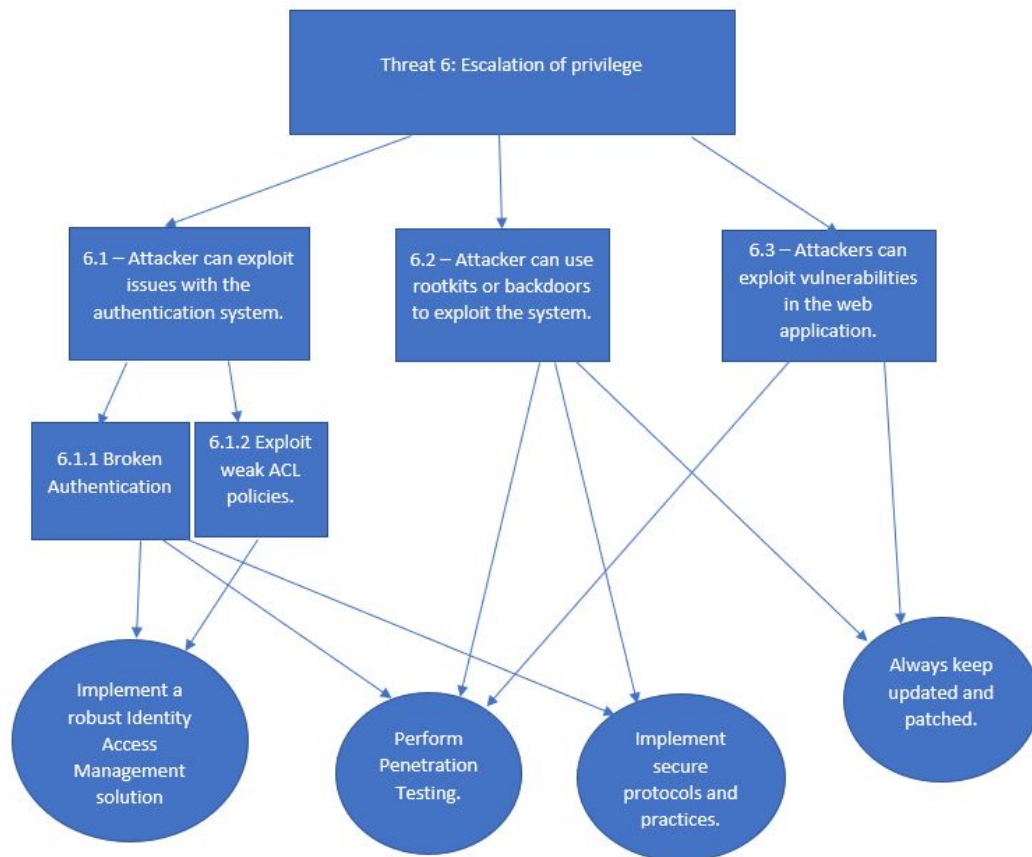


DREAD Score = 15

D	Damage potential	High (3) - The attacker can get full trust authorization; run as administrator; upload content.
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E	Exploitability	High (3) - A novice programmer could make the attack, and then repeat the steps.
A	Affected users	High (3) - All users can be affected.
D	Discoverability	High (3) - The vulnerability is in a commonly used feature.



- **Threat 6:**
  - Category: Elevation of Privilege



DREAD Score = 15

D	Damage potential	High (3) - The attacker can get full trust authorization; run as administrator; upload content.
R	Reproducibility	High (3) - The attack can be reproduced every time and does not require a timing window.
E	Exploitability	High (3) - A novice programmer could make the attack, and then repeat the steps.
A	Affected users	High (3) - All users can be affected.
D	Discoverability	High (3) - The vulnerability is in a commonly used feature.