

by SecureFlag

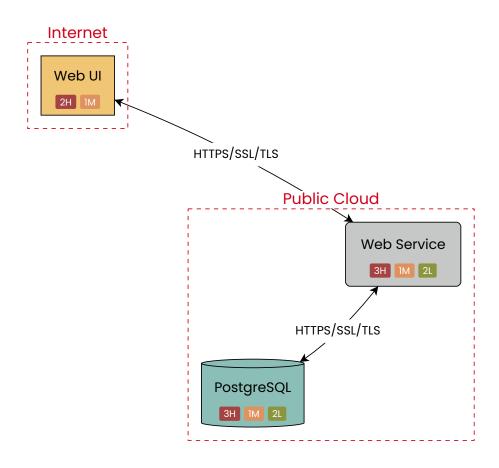
My Threat Model

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Diagram



Risk modifiers

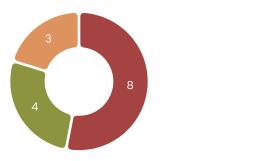
Project type Application

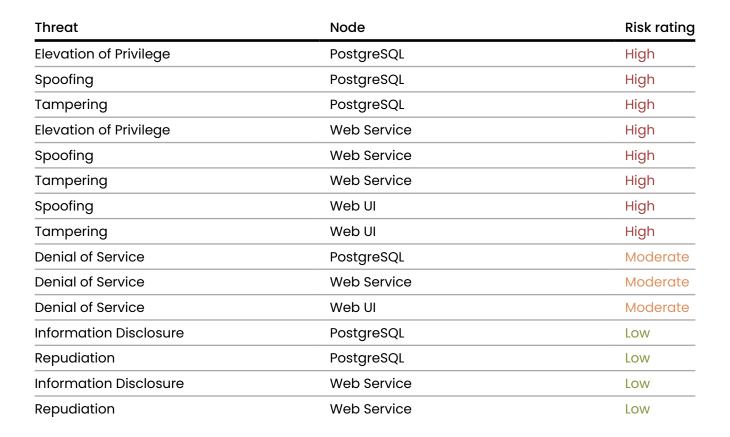
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HighLowModerate



Open risks





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Node analysis

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Web UI

Component Generic Entity

Trust boundary Internet

Denial of Service

Risk rating Moderate
Status Open

Firewall

Implemented No

Mitigate Automated Attacks

Implemented No

Spoofing

Risk rating High Status Open

Enforce Authorization

Implemented No

Secure Connections with Strong Encryption

Implemented No

Tampering

Risk rating High Status Open

Encrypt Sensitive Information

Implemented No

Input Sanitization

Implemented No

Input Validation

Implemented No

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Implemented No

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Web Service

ComponentGeneric ProcessTrust boundaryPublic Cloud

Denial of Service

Risk rating Moderate
Status Open

Firewall

Implemented No

Mitigate Automated Attacks

Implemented No

Elevation of Privilege

Risk rating High Status Open

Apply Least Privilege

Implemented No

Enforce Authorization

Implemented No

Information Disclosure

Risk rating Low Status Open

Encrypt Sensitive Information

Implemented No

Redact Sensitive Data

Implemented No

Secret Management

Implemented No

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Secure Connections with Strong Encryption

Implemented No

Repudiation

Risk rating Low Status Open

Enforce Authentication

Implemented No

Enforce Authorization

Implemented No

Logging and Monitoring

Implemented No

Spoofing

Risk rating High Status Open

Enforce Authorization

Implemented No

Secure Connections with Strong Encryption

Implemented No

Tampering

Risk rating High Status Open

Encrypt Sensitive Information

Implemented No

Input Sanitization

Implemented No

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Input Validation		
Implemented	No	
Secure Connection	with Strong Encryption	
Implemented	No	

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PostgreSQL

Component Generic Data Store

Trust boundary Public Cloud

Denial of Service

Risk rating Moderate
Status Open

Firewall

Implemented No

Mitigate Automated Attacks

Implemented No

Elevation of Privilege

Risk rating High Status Open

Apply Least Privilege

Implemented No

Enforce Authorization

Implemented No

Information Disclosure

Risk rating Low Status Open

Encrypt Sensitive Information

Implemented No

Redact Sensitive Data

Implemented No

Secret Management

Implemented No

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Secure Connections with Strong Encryption

Implemented No

Repudiation

Risk rating Low Status Open

Enforce Authentication

Implemented No

Enforce Authorization

Implemented No

Logging and Monitoring

Implemented No

Spoofing

Risk rating High
Status Open

Enforce Authorization

Implemented No

Secure Connections with Strong Encryption

Implemented No

Tampering

Risk rating High Status Open

Encrypt Sensitive Information

Implemented No

Input Sanitization

Implemented No

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Input Validation		
Implemented	No	
Secure Connection	with Strong Encryption	
Implemented	No	

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Threat reference

Denial of Service

The node is susceptible to DoS attacks, which can render the node unavailable or unresponsive to legitimate users.

Elevation of Privilege

The node is vulnerable to elevation of privilege attacks, where an attacker gains higher-level permissions than intended.

Information Disclosure

The node leaks pieces of information, such as internal data or authentication material, which could be used to facilitate further attacks.

Repudiation

The node is prone to repudiation threats, where an attacker can deny their actions without the possibility of traceability.

Spoofing

The node is susceptible to identity spoofing, where an attacker may impersonate another user or entity.

Tampering

The node is vulnerable to data tampering, allowing unauthorized modification of data in transit or storage.

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Control reference

Apply Least Privilege

Limit access privileges to those essential for performing the intended function.

Encrypt Sensitive Information

Ensure the sensitive information processed by the node is encrypted to comply with security and regulatory requirements.

Enforce Authentication

Enforce robust authentication mechanism to access the node's resources and functionalities, such as passwords, pre-shared tokens, or digital certificates.

Enforce Authorization

Ensure that the node uses strict access policies against unauthorized access.

Firewall

Use network appliances to filter ingress or egress traffic. Configure software on endpoints to filter network traffic.

Input Sanitization

Check untrusted input and remove anything that might be potentially dangerous.

Input Validation

Ensure that only properly formed data is entered into the system.

Logging and Monitoring

Keep detailed audit logs with timestamps for activities such as user logins, sensitive data access, access control changes, and administrative actions.

Mitigate Automated Attacks

Protect against automated attacks such as content scraping, password brute-force, or denial of service attacks.

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Redact Sensitive Data

Redact, obfuscate, or tokenize sensitive information such as credit card numbers.

Secret Management

Securely encrypt, store, and manage access to secrets such as passwords, tokens, and encryption keys. This includes using centralized vaults, regular rotation, and auditing trails.

Secure Connections with Strong Encryption

Ensure that the node enforces network connections using protocols such as TLS or SSH, with approved versions and strong cipher suites to protect data in transit from exposure.

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