

resilient-six-threat-model

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Reviewer:

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Executive Summary

High level system description

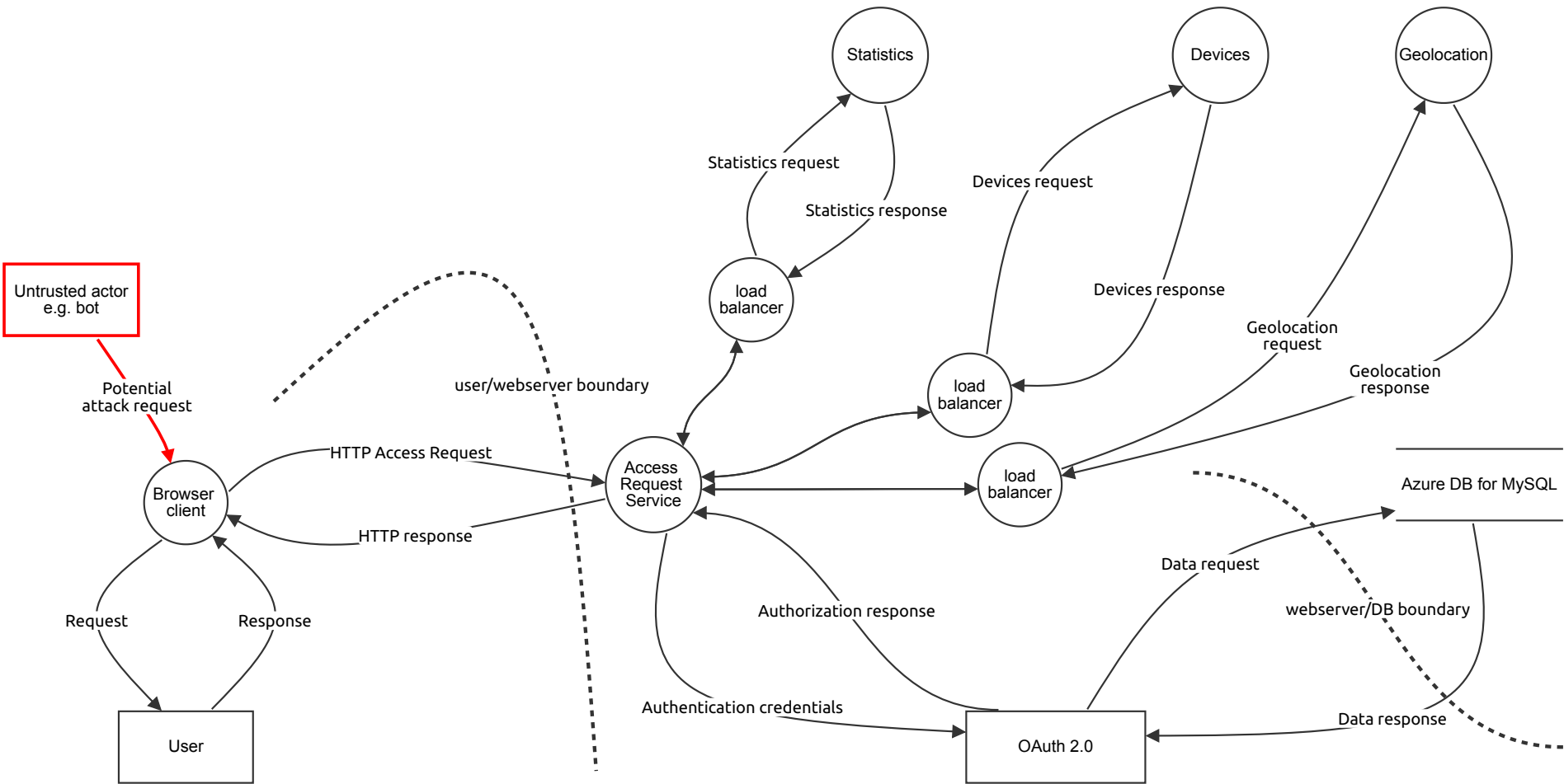
Not provided

Summary

Total Threats	4
Total Mitigated	2
Not Mitigated	2
Open / High Priority	0
Open / Medium Priority	2
Open / Low Priority	0
Open / Unknown Priority	0

resilient-six-stride-model

STRIDE model for K8S high availability demo



resilient-six-stride-model

User (Actor)

human client

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Browser client (Process)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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OAuth 2.0 (Actor)

Authorization provider

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Access Request Service (Process)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Request (Data Flow)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Response (Data Flow)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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HTTP response (Data Flow)

Geolocation request (Data Flow)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Geolocation response (Data Flow)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Data Flow (Data Flow)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Data Flow (Data Flow)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Statistics response (Data Flow)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Potential attack request (Data Flow)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
6	Tampering	Tampering	Medium	Open		E.g. modification of frontend navigation in order to cause redirection to phishing page	Open - need to confirm whether there is any tampering/data validation mechanism implemented
7	Unauthorized access to sensitive data	Information disclosure	Medium	Mitigated		Compromise sensitive data due to faulty authorization process	Possible remedy - OAuth 2.0 + RBAC or ABAC (role-/attribute-based access control)
8	DoS attempt	Denial of service	High	Mitigated		Overload and disruption of high availability system	Each microservice is handled by separate load balancer

Devices request (Data Flow)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Azure DB for MySQL (Store)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Statistics (Process)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Devices (Process)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Geolocation (Process)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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load balancer (Process)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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load balancer (Process)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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load balancer (Process)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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Untrusted actor e.g. bot (Actor)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
0	New STRIDE threat	Spoofing	Medium	Open		Provide a description for this threat	Provide remediation for this threat or a reason if status is N/A