resilient-six-threat-model

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Contributors:

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Executive Summary

High level system description

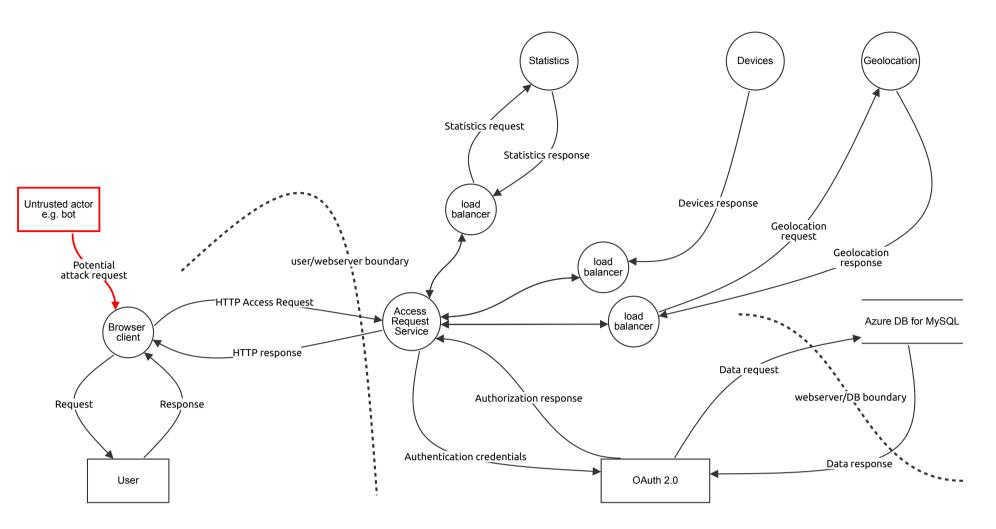
Not provided

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 (Acto	or)						
human client							
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Browser							
client (Pro	cess)						
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
OAuth 2.0	(Actor)						
Authorization provi	der						
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Access							
Request Service (Pr	ncess)						
Service (i i	00033)						
Number	Title	Type	Priority	Status	Score	Description	Mitigations
Number	ricte	Туре	Priority	Status	Score	Descripcion	Micigations
Request ([Data Flov	v)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Response	(Data Flo	ow)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations

HTTP response (Data Flow)

Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
HTTP Access Request (Data Flow)										
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
Number	Titte	Туре	Filoney	Status	Score	Descripcion	Micigations			
Authorizati	on respor	ise (Data	Flow)							
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
Authentical	tion crede	entials (Da	ata Flow)							
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
Data reques	st (Data F	low)								
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
Data respon	ise (Data	Flow)								
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
Statistics re	anuest (D	ata Flow)								
Statistics it	quest (D	aca riow)								
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
Devices res	ponse (Da	ata Flow)								
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			

Geolocation request (Data Flow)

Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Geolocati	ion						
response	(Data Flov	w)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
1	451						
Data Flov	w (Data Flo	ow)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Data Flov	w (Data Flo	ow)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Data Flav	/Data El						
Data Flov	w (Data Flo	ow)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Data Flov	w (Data Fl	ow)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
	.	•					
Data Flov	w (Data Flo	ow)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations

Data Flow (Data Flow)

Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
61 11 11										
Statistics	response	e (Data Flo	ow)							
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
Potential										

Potential attack request (Data Flow)

Number	Title	Туре	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

Azure DB for MySQL (Store)

Statistics (Process)

Number	Title	Туре	Priority	Status	Score	Description	Mitigations	

Devices (Process)

Number	Title	Туре	Priority	Status	Score	Description	Mitigations

Geolocation (Process)

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

Number	Title	Туре	Priority	Status	Score	Description	Mitigations	

load balancer (Process)

Number	Title	Туре	Priority	Status	Score	Description	Mitigations

load balancer (Process)

Number	Title	Туре	Priority	Status	Score	Description	Mitigations

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