resilient-six-threat-model

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Executive Summary

High level system description

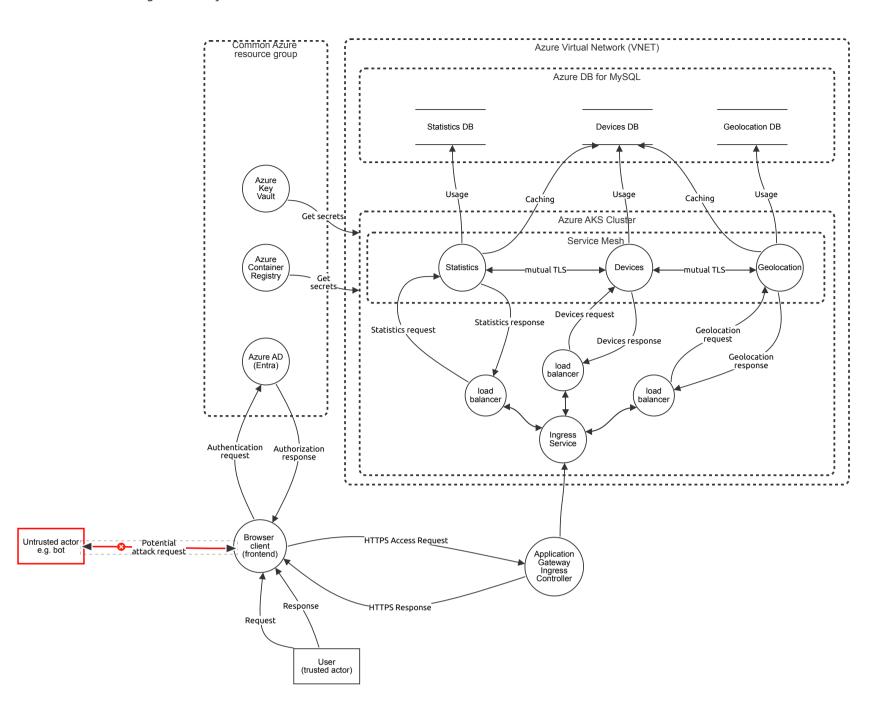
Not provided

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							
(trusted a	ctor) (Acl	tor)					
human client							
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Browser							
client	/D	-1					
(frontend)	(Process	5)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Ingress							
Service (P	rocess)						
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Response	(Data Flo	ow)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Statistics	request	(Data Flov	w)				
	•	•	·				
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
		-					
Devices re	esponse ((Data Flov	v)				

Title

Туре

Priority

Status

Score

Description

Mitigations

Number

esponse	(Data Flo	w)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Data Flov	w (Data Fl	ow)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Data Elos	w (Data Fl	ow)					
Jala Flo	w (Data Ft	.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 Fl	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 Fl	ow)					

Geolocation

Statistics response (Data Flow)

Number	Title	Туре	Priority	,	Status	Score	Description	Mitigations
Poten	itial							
	request (Dat	a Flow)						
Number	Title	Туре	Priority	Status	Score	Description		Mitigations
6	Tampering	Tampering	Medium	Open		E.g. modification of frontend navi order to cause redirection to phisl		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 authorization process	faulty	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 a system	vailability	Each microservice is handled by separate load balancer
Devic	es request (D	ata Flow)						
		,						
Number	Title	Туре	Priority	,	Status	Score	Description	Mitigations
		J.					•	
Data I	Flow (Data Flo	ow)						
Number	Title	Туре	Priority	,	Status	Score	Description	Mitigations
mutus	al TLS (Data F	low)						
mucuc	at ILS (Data F	tow)						
Number	Title	Туре	Priority	•	Status	Score	Description	Mitigations
Data I	Flow (Data Flo	ow)						
Number	Title	Туре	Priority	,	Status	Score	Description	Mitigations
mutua	al TLS (Data F	low)						
	•	Ť						
Number	Title	Туре	Priority	,	Status	Score	Description	Mitigations

Geolocatio)								
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
HTTPS Access Request (Data Flow)										
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
HTTPS Res	HTTPS Response (Data Flow)									
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
Data Flow	(Data Flo	OW)	Priority	Status	Score	Description	Mitigations			
			-			·				
Usage (Dat	ta Flow)									
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
Usage (Data Flow)										
Number	Title	Туре	Priority	Status	Score	Description	Mitigations			
Usage (Dat	ta Flow)									

Caching (Data Flow)

Number

Title

Туре

Priority

Status

Score

Description

Mitigations

Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Caching (Da	ta Flow)						
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Nullibel	Title	туре	Priority	Status	Score	Description	Micigacions
Authenticat							
request (Dat	a Flow)						
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Authorizatio	on .						
response (Da							
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Cabaaaaaha	(Data Ela						
Get secrets	(Data Flo	w)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Get							
secrets (Data	a Flow)						
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Request (Da	to Flow						
kequest (Da	ta rtow)						
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Statistics (P	rocess)						

Devices (Process)										
Number	Title	Туре	Priority	Status	Score	Description	Mitigations				
Geolocati	Geolocation (Process)										
Number	Title	Туре	Priority	Status	Score	Description	Mitigations				
load balancer (load balancer (Process)										
Number	Title	Туре	Priority	Status	Score	Description	Mitigations				
load balancer (load balancer (Process)										
Number	Title	Туре	Priority	Status	Score	Description	Mitigations				
load balancer (Process)											
Number	Title	Туре	Priority	Status	Score	Description	Mitigations				
Untruste	d actor										

Mitigations

Description

Untrusted actor e.g. bot (Actor)

Number

Title

Туре

Priority

Status

Score

Number	Title	Туре	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

Application
Gateway
Ingress
Controller (Process)

Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Statistics	s DB (Store	e)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Devices I	OB (Store)						
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Coologat	ion DB (St	-050)					
deolocat	.ioii DB (30	.ore)					
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Azure A[
(Entra) (P	rocess)						
Number	Title	Туре	Priority	Status	Score	Description	Mitigations
Azure							
Containe							
Registry ((Process)						
Number	Title	Туре	Priority	Status	Score	Description	Mitigations

Azure Key Vault (Process) Number Title Type Priority Status Score Description Mitigations