

# resilient-six-threat-model

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**Date Generated:** Thu Jun 13 2024

# Executive Summary

## High level system description

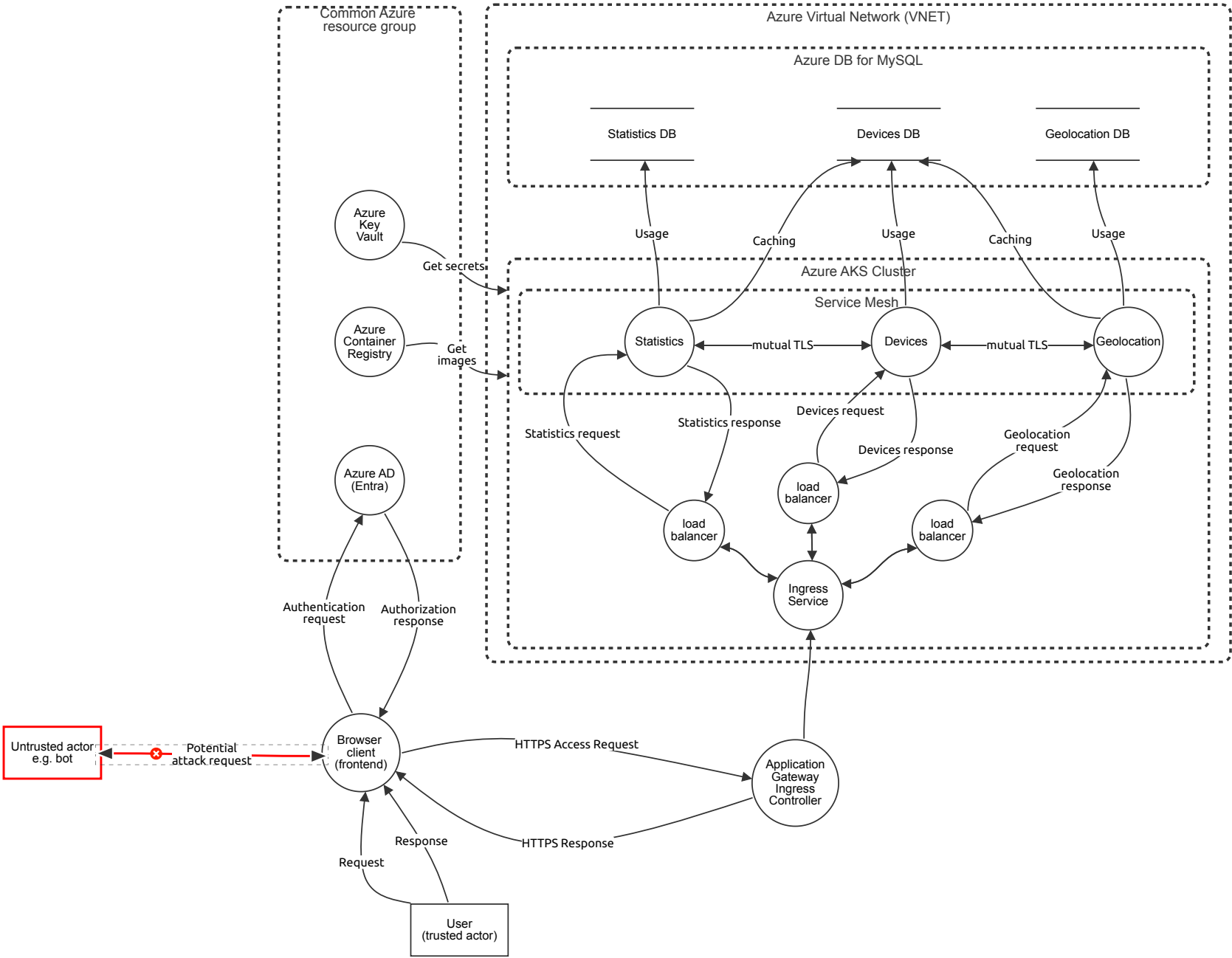
Not provided

## 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 actor) (Actor)

human client							
Number	Title	Type	Priority	Status	Score	Description	Mitigations

## Browser client (frontend) (Process)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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## Ingress Service (Process)

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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## Statistics request (Data Flow)

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

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

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

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

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

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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## HTTPS 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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## Usage (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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Number	Title	Type	Priority	Status	Score	Description	Mitigations
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## Caching (Data Flow)





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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Number	Title	Type	Priority	Status	Score	Description	Mitigations
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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

# Application Gateway Ingress Controller (Process)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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# Statistics DB (Store)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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# Devices DB (Store)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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# Geolocation DB (Store)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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# Azure AD (Entra) (Process)

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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# Azure Container Registry (Process)

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

Number	Title	Type	Priority	Status	Score	Description	Mitigations
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