Attack Surface

Monolithic Microservices (Distibuted)

Smaller Larger

Smaller depth of Bigger depth of defense defense

Necessity to strike a balance

Core principles

Five functions of cybersecurity - identify, protect, detect, respond, recover.

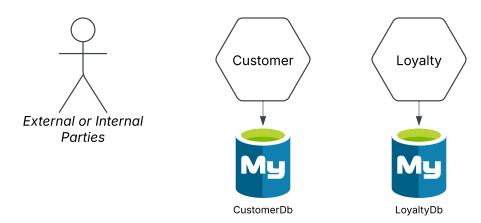
Foundations of application security - credentials, secrets, patching, backups, and rebuild.

Implicit trust vs. zero trust - how each of these forms of trust dictate our implementation of microservices and security related activities.

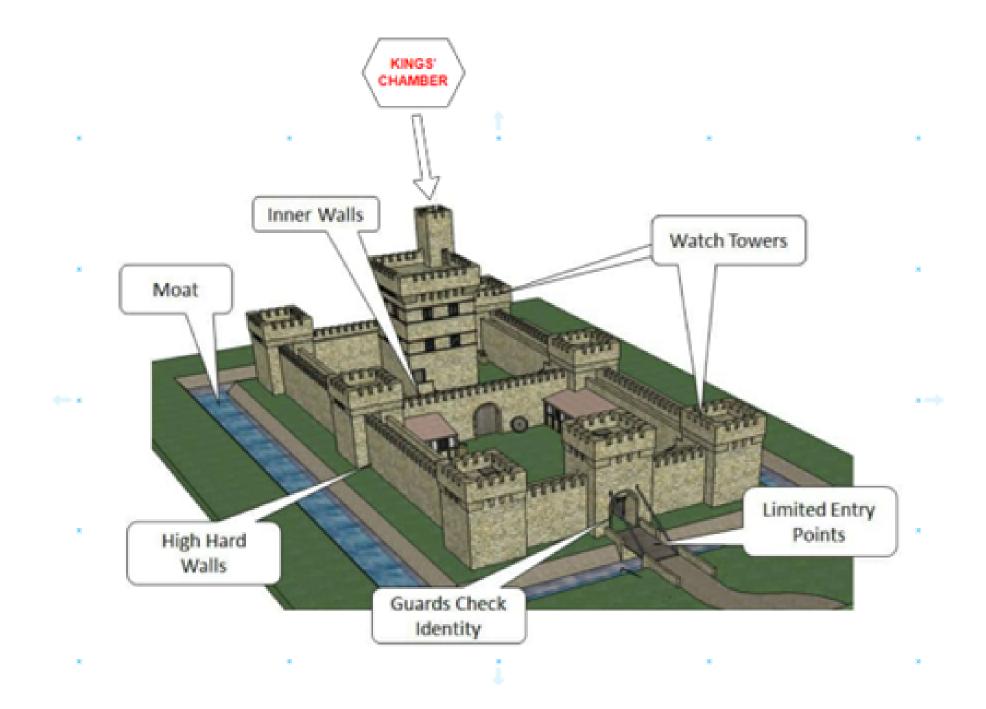
Securing data - protecting data over networks or on disk

Authentication & Authorization - (SSO) single sign on.

Principle of least privilege



Applications



zero day exploit

Types of Security
Controls gocladdy.com

Preventative Mentality of thinking of security, testing, usability, operations as an afterthought - "do you want fries with that".

Responsive

Zed attack proxy (ZED) - simulate attacks cross site scripting.

Static code analysis