

# The future of CRS

Felipe Zipitria



**CRS**

THE 1<sup>ST</sup> LINE OF DEFENSE

# Agenda

- Near future
- What we are working on (besides the usual)
- Engagement

# Some of the things we are working on

- CRS is moving away from `SecLang`
- More automation and facilitate tooling

# CRSLang?

- A new YAML based language
- Work made by student at the University (Agustín De León)
- Made an initial *schema*

# How does it look like?

```
- directives:  
  - secdefaultaction:  
    metadata:  
      phase: "1"  
    actions:  
      disruptiveAction:  
        action: pass  
      non-disruptiveActions:  
        - action: log  
        - action: auditlog  
  - secdefaultaction:  
    ...
```

# How advanced we are?

- Basic parser + visitor working
- The *schema* has been created for people to start testing
- Roughly we have a *working* v1

# What does this mean?

- Not much for now.
- We need extensive testing
- Moving to it will be one shot, so everything must work beforehand
- ⚠ We still need to move tooling before doing anything else

# Tools

- We need to adapt `crs-toolchain` to be able to read the new schemas
- 🦄...and be able to *transpile* yaml into *SecLang*



# AI/ML

- Work on WACE (Web Application Connector Engine)
- Ported from modsecurity (PoC) to Coraza/Go

## Collaboration from everyone

- First: our users 🙌!
- Simplify integration with different engines
- Reaching to Universities is something pending

# Summary

- New language is going to be released soon for consideration
- Adoption will be gradual, but change must be on/off
- Tools need to be adopted
- yaml files would need to be updated manually just *one* time to match fields

# Demo