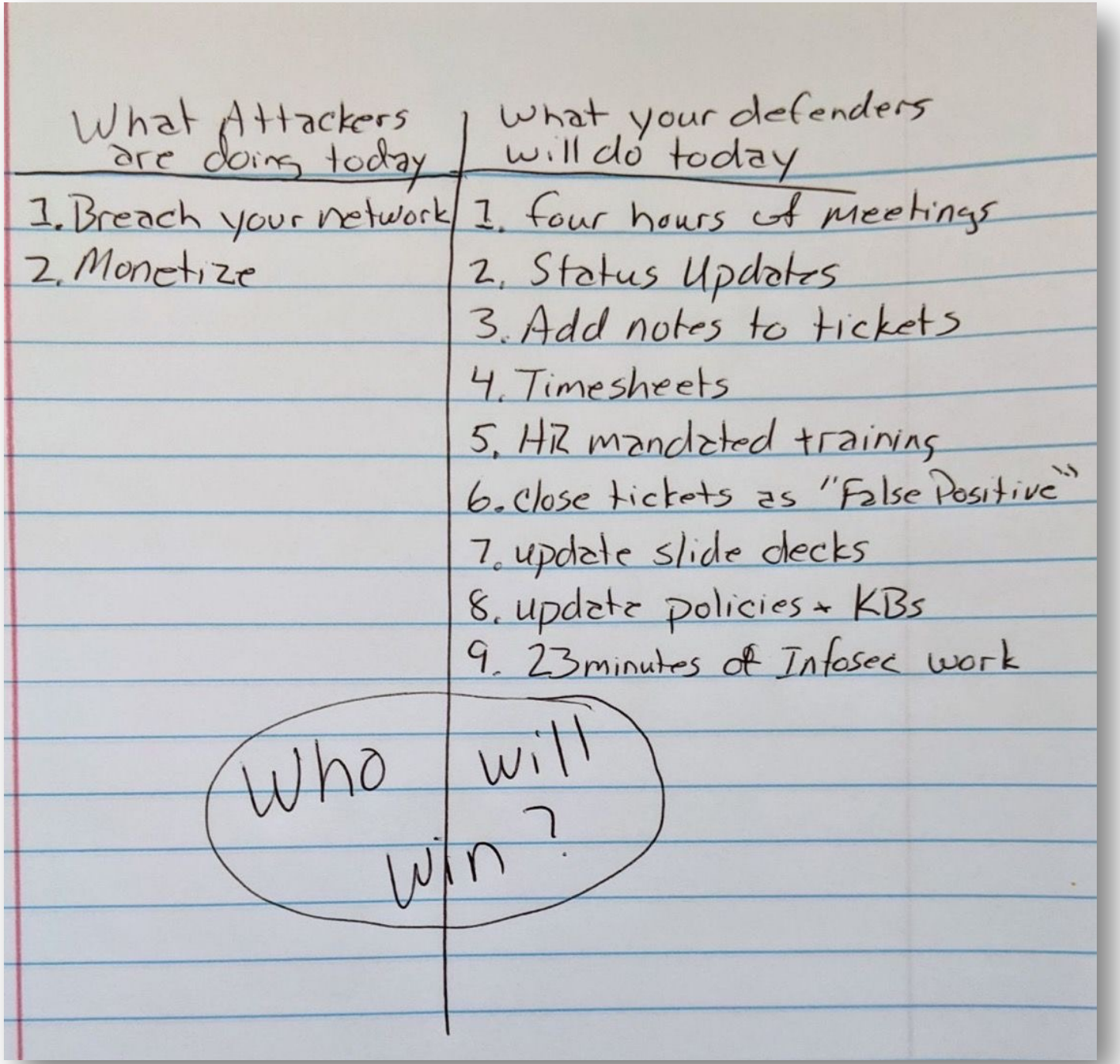
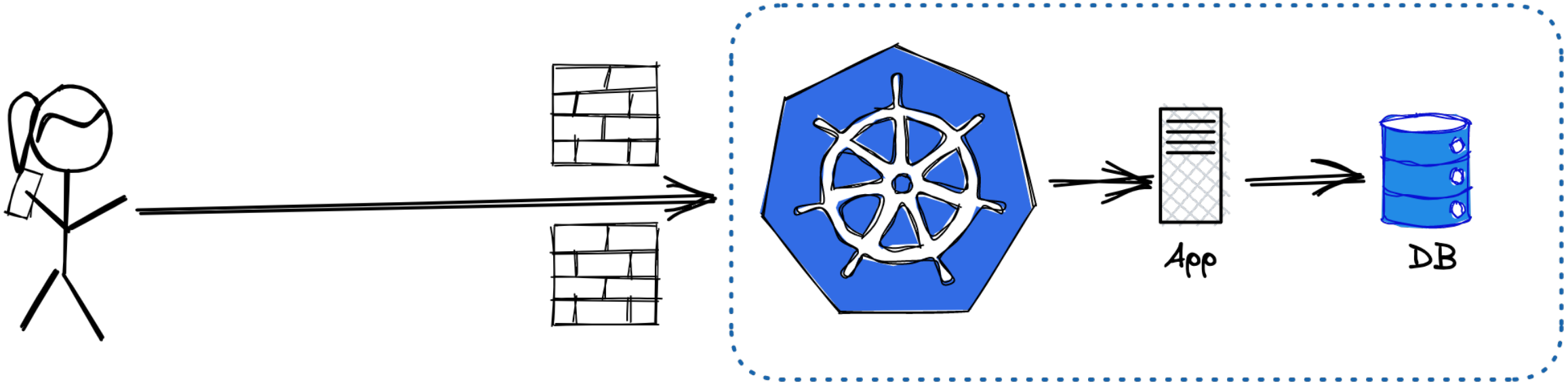
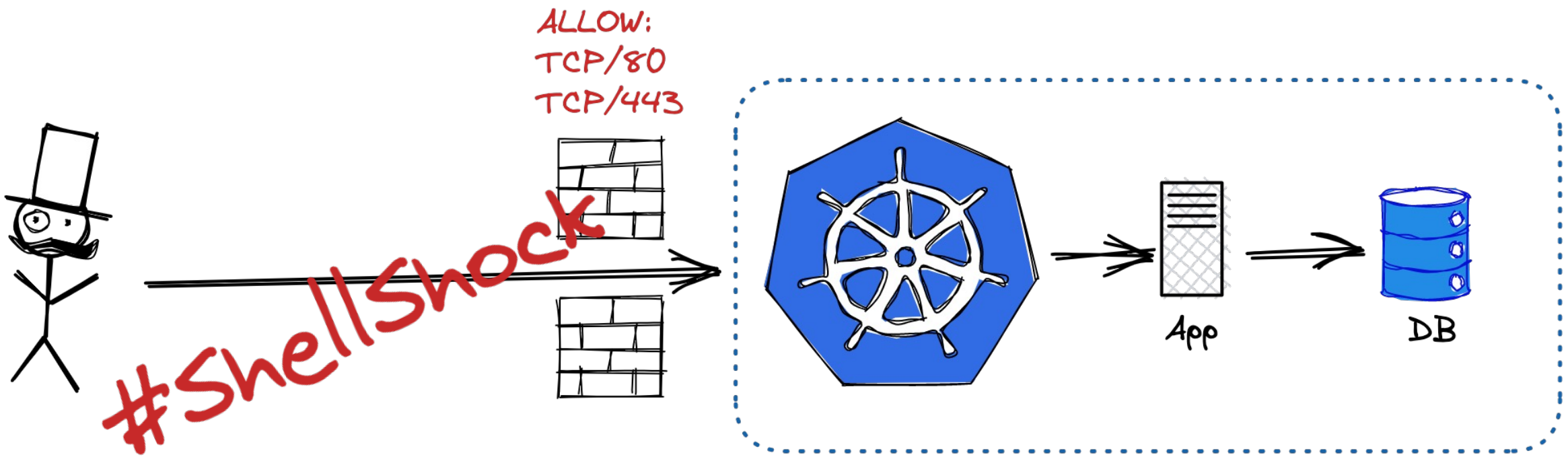
F5 APM

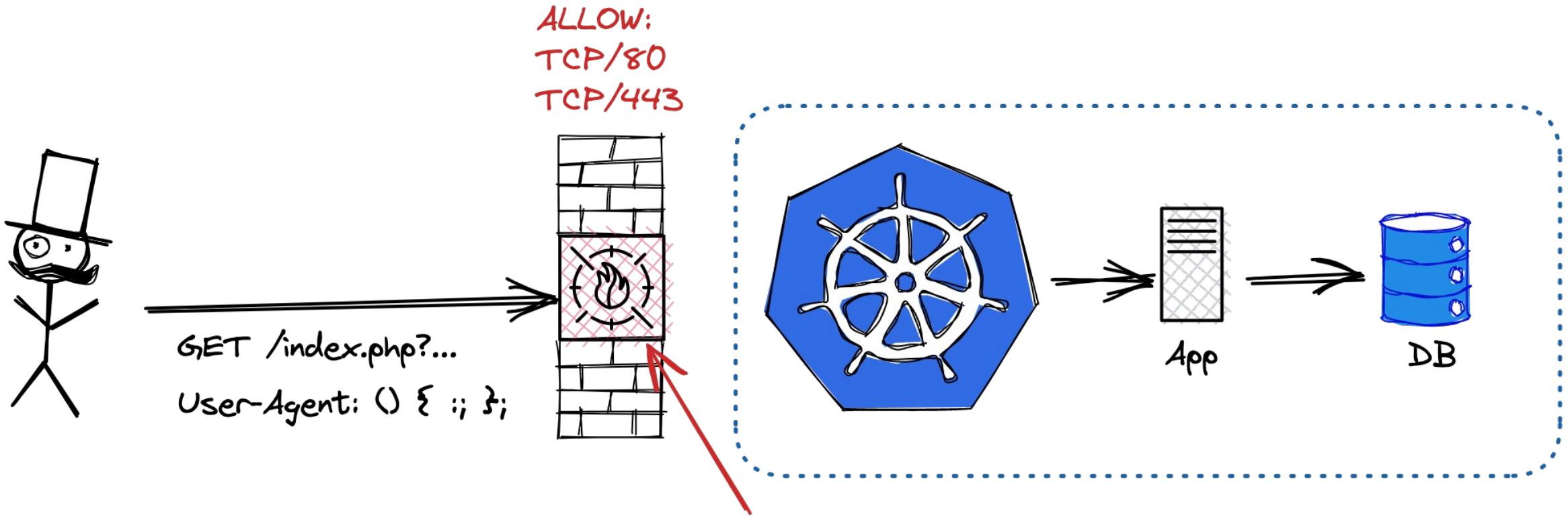
Univerzálny a bezpečný prístup k aplikáciám

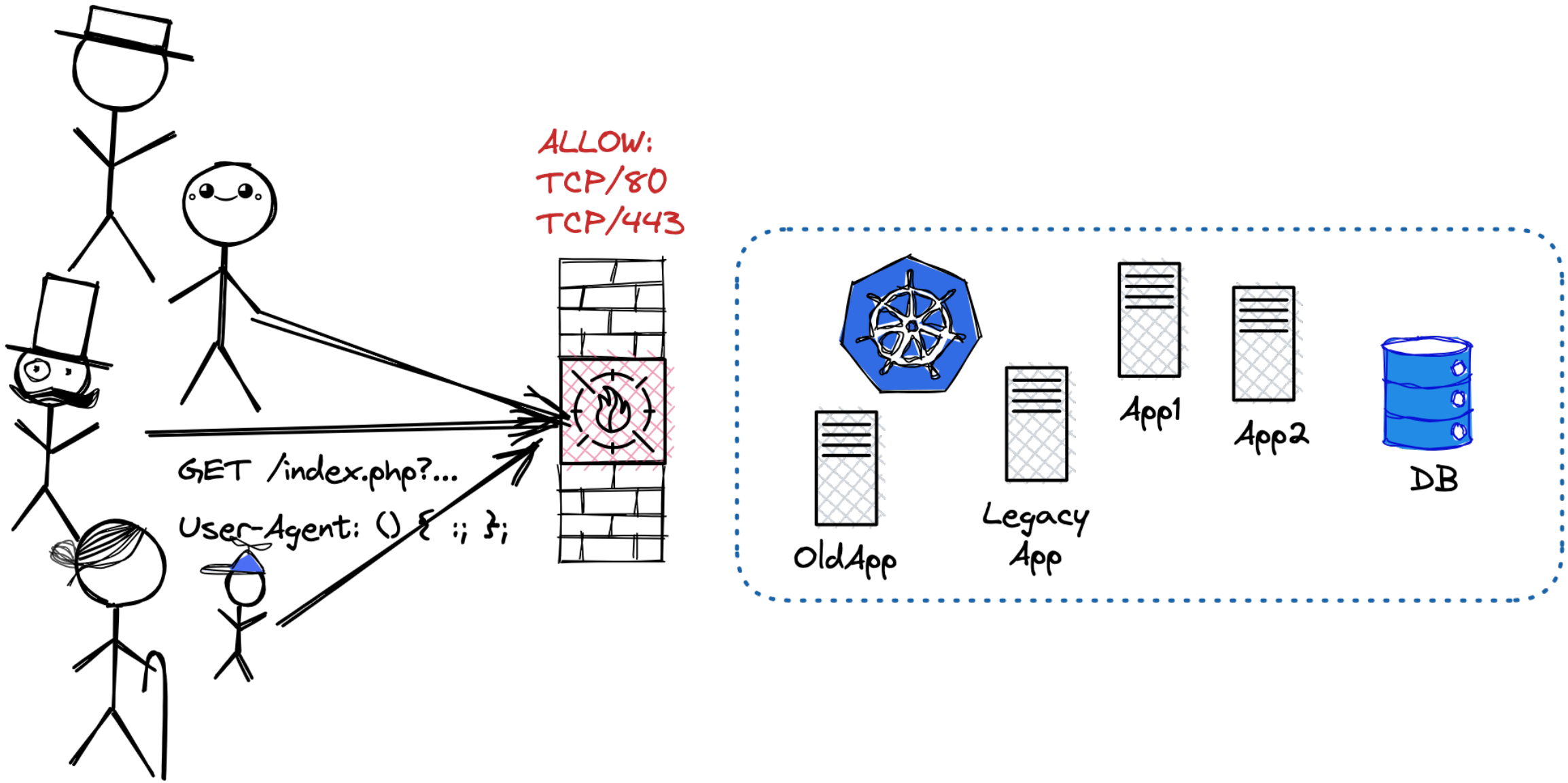
Luboš Klokner | F5 | Sr. Solution Engineer

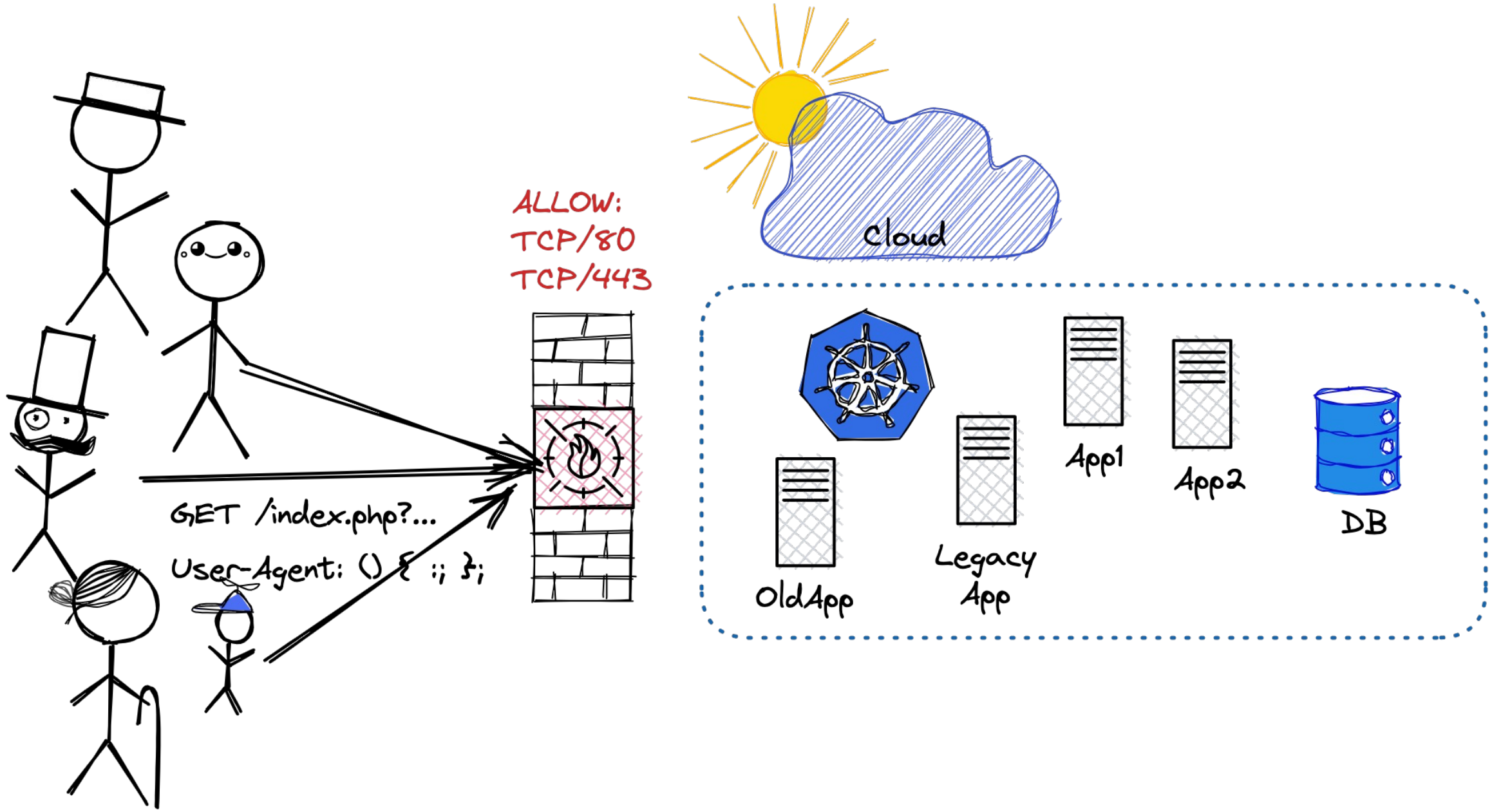

What Attackers are doing today
1. Breach your network
2. Monetize
What your defenders will do today
1. four hours of meetings
2. Status Updates
3. Add notes to tickets
4. Timesheets
5. HR mandated training
6. close tickets as "False Positive"
7. update slide decks
8. update policies + KBs
9. 23 minutes of Infosec work
Who will win?

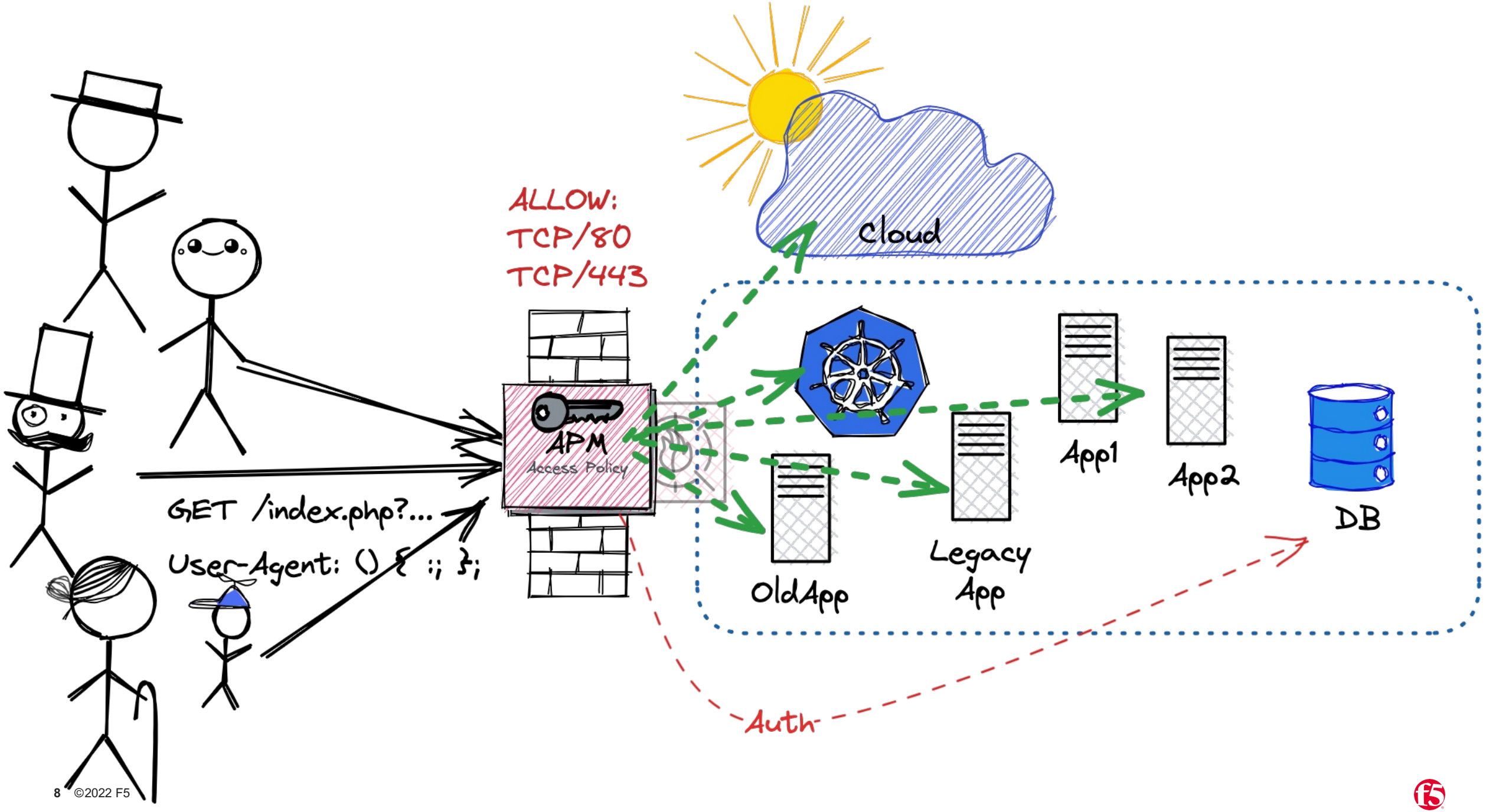






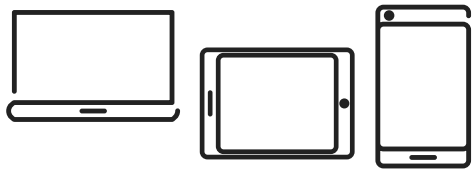

ALLOW:
TCP/80
TCP/443
GET /index.php?...
User-Agent: () { :; };
OldApp
Legacy App
App1
App2
DB


ALLOW:
TCP/80
TCP/443
GET /index.php?...
User-Agent: () { :; };
Cloud
OldApp
Legacy App
App1
App2
DB

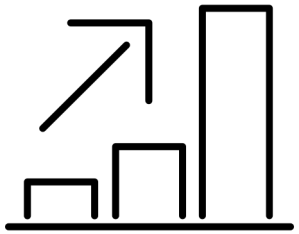

ALLOW:
TCP/80
TCP/443
Cloud
APM
Access Policy
GET /index.php?...
User-Agent: () { :; };
OldApp
Legacy App
App1
App2
DB
Auth

The challenges of managing access today

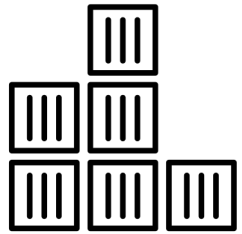
Need to manage access based on identity and context



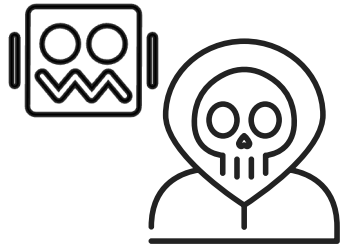
Rapidly expanding, changing mobile workforce



Explosion in number of users, use cases, in-use devices



Increased virtualization and multi-cloud



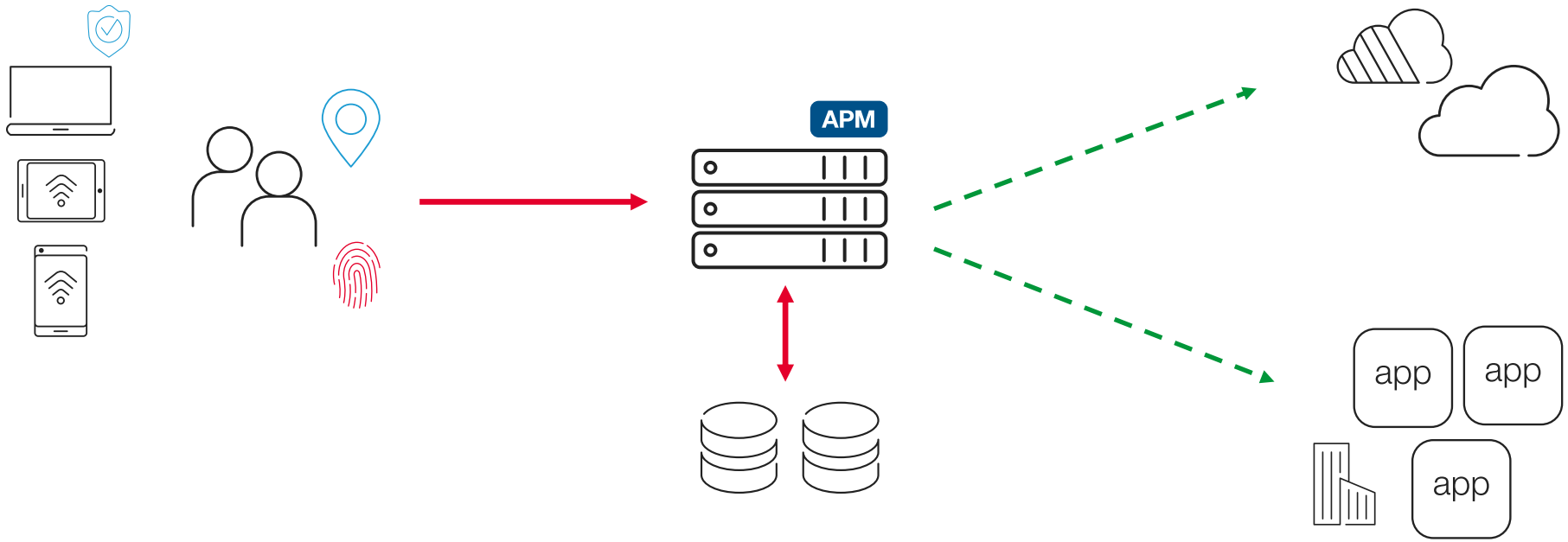
Fast rising number of security threats and attacks

Controlling access through identity

User Identity and Device Information + Network / Connection + Application Health and Risk

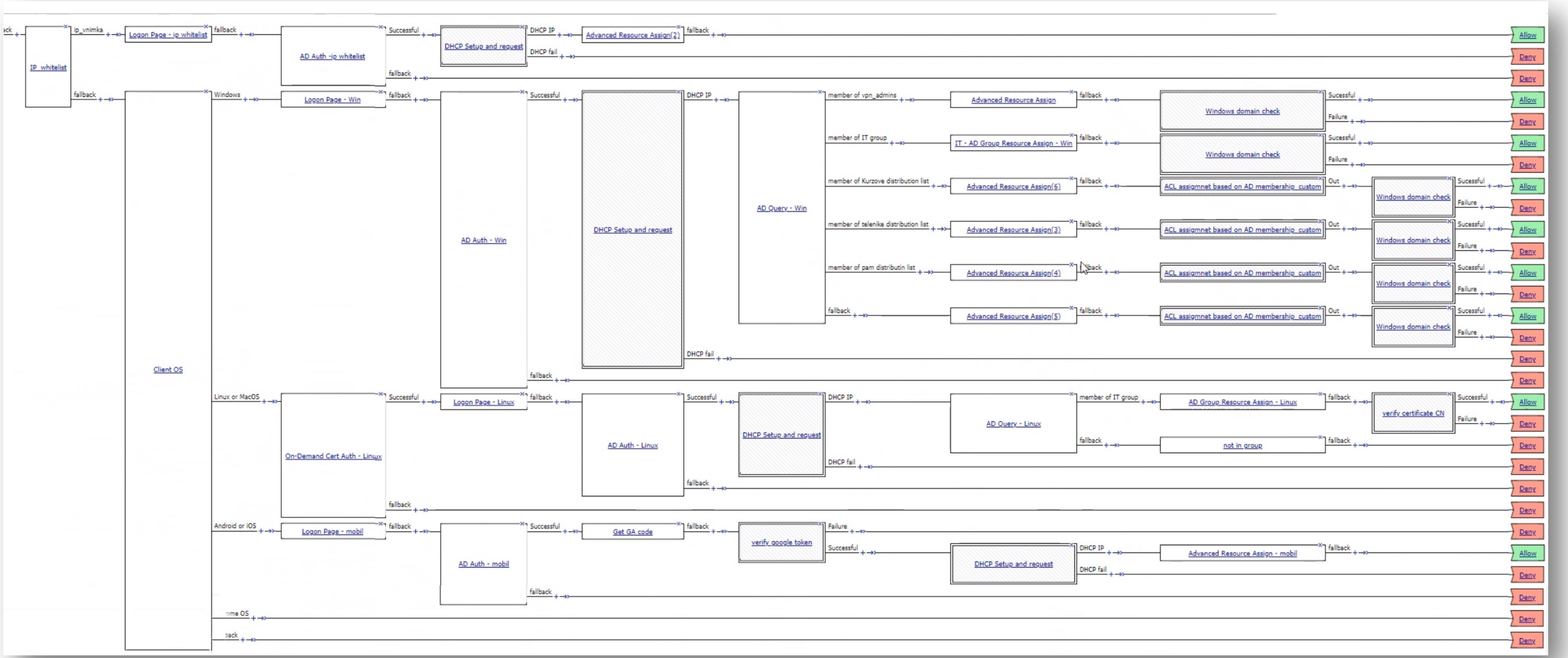
Access Policy

Reference Architecture



Access Policy Design

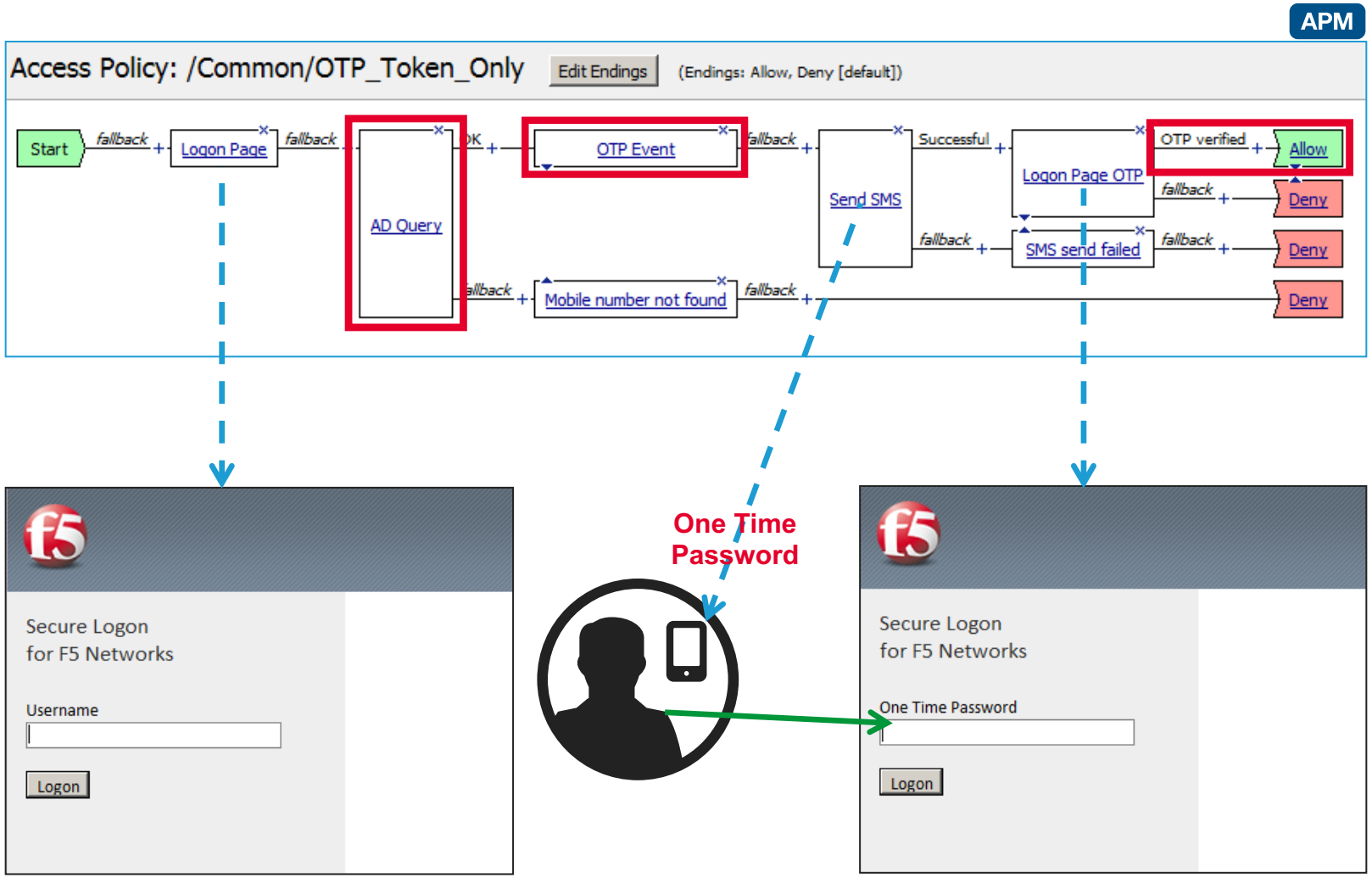
APM



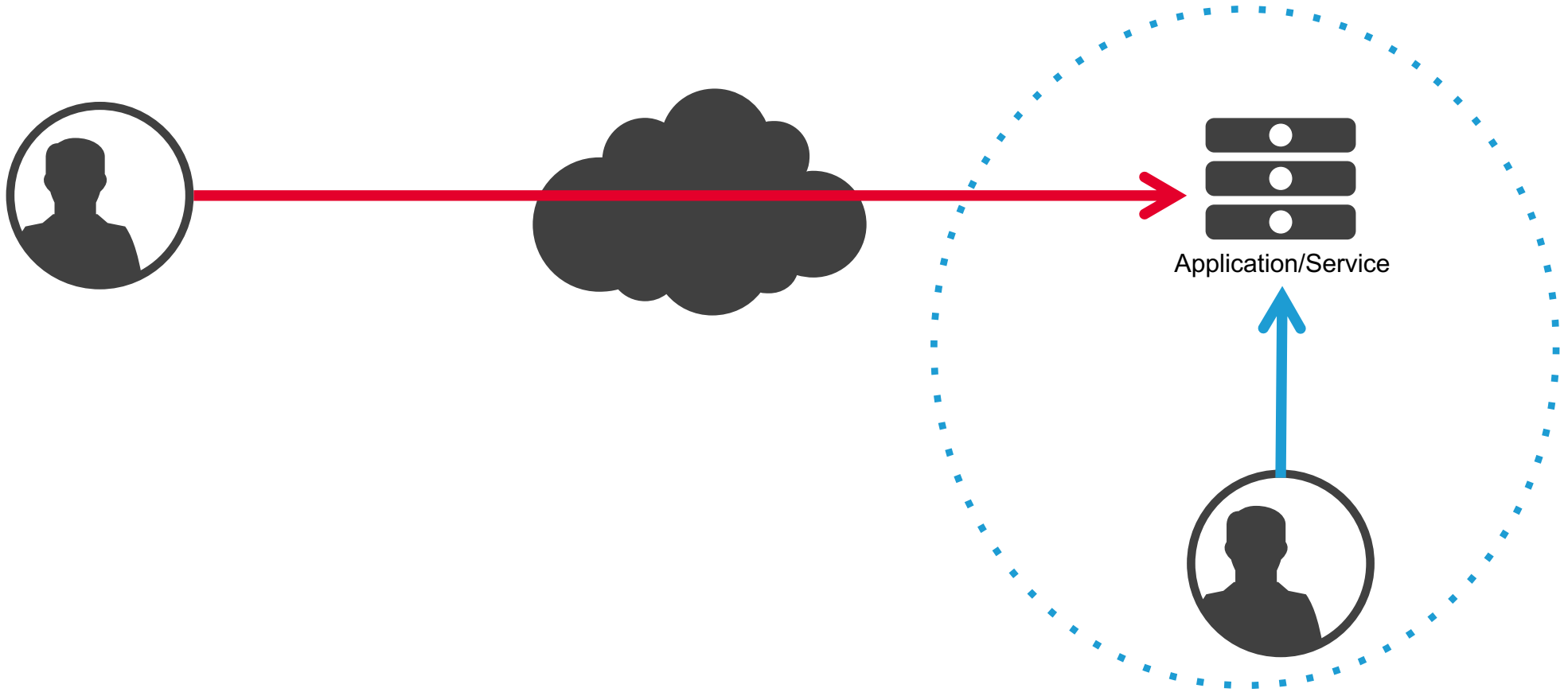
Examples

1. SMS One Time Password
2. Internal vs. External User
3. Step-up Authentication
4. Client Posture Check

Access Policy using SMS OTP



Internal vs. External Network



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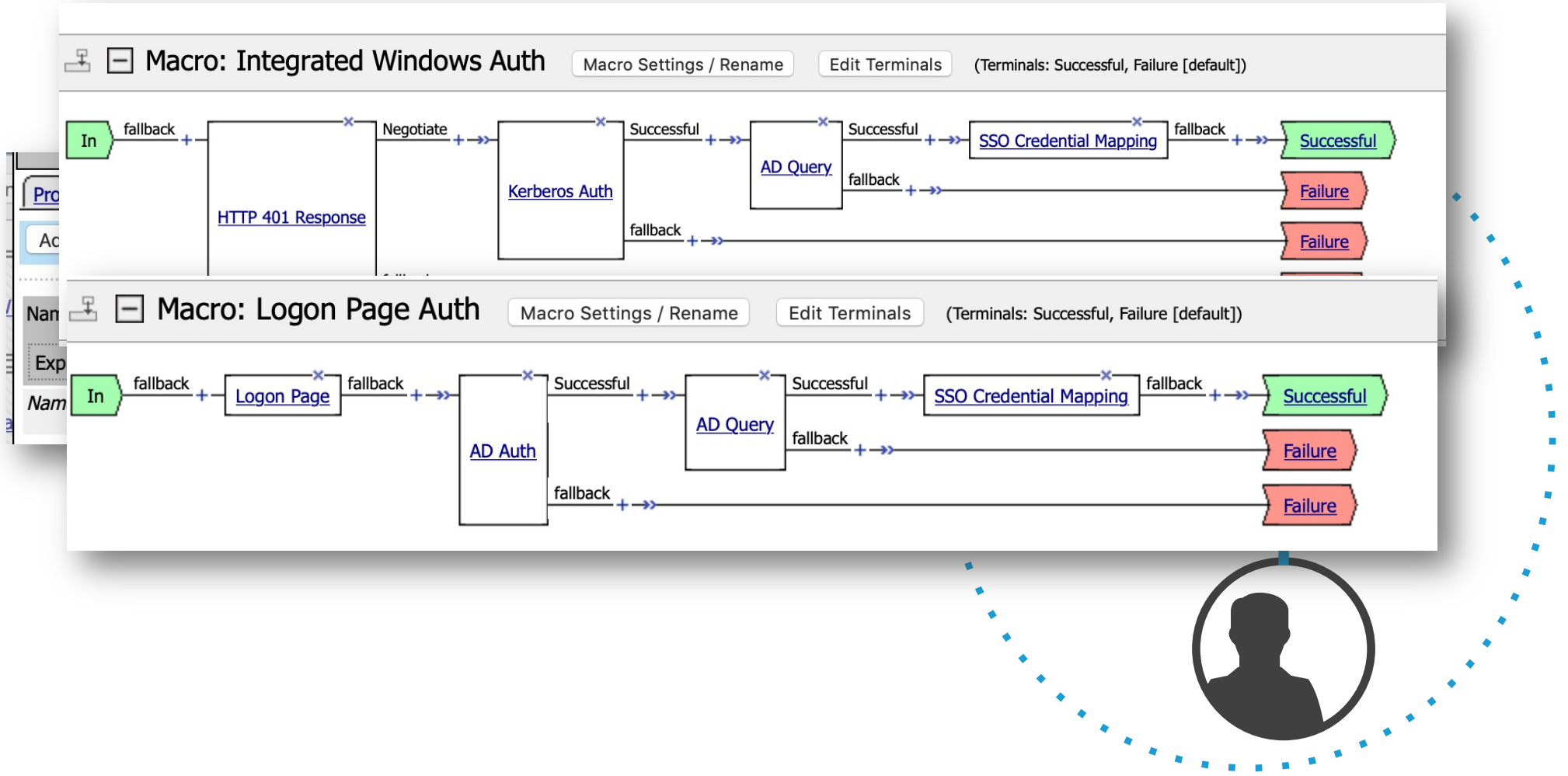
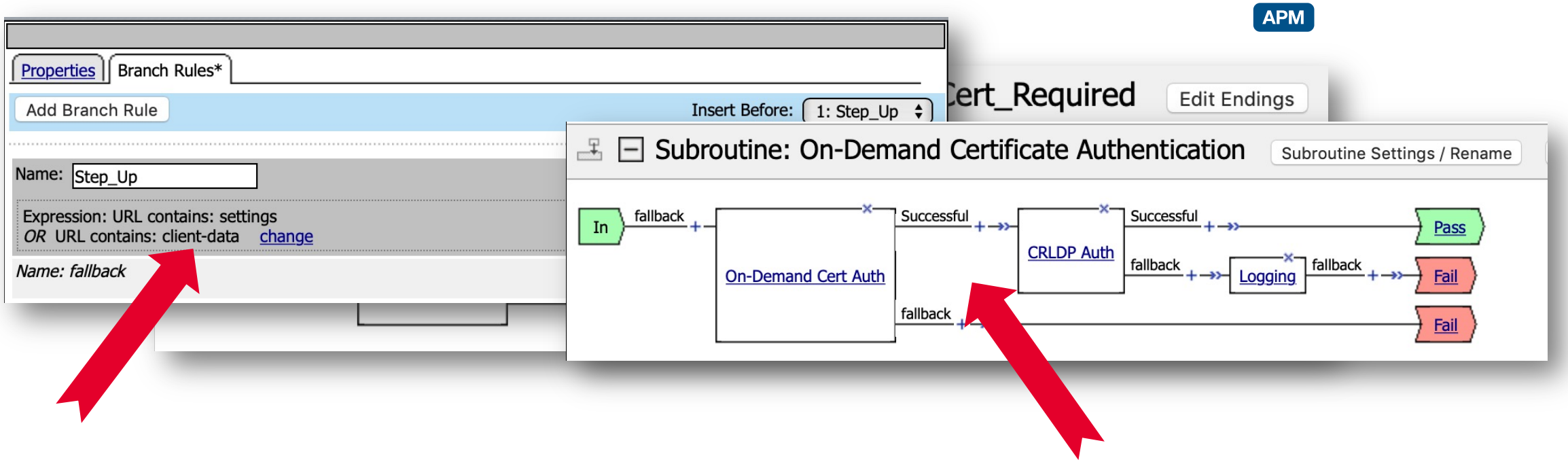
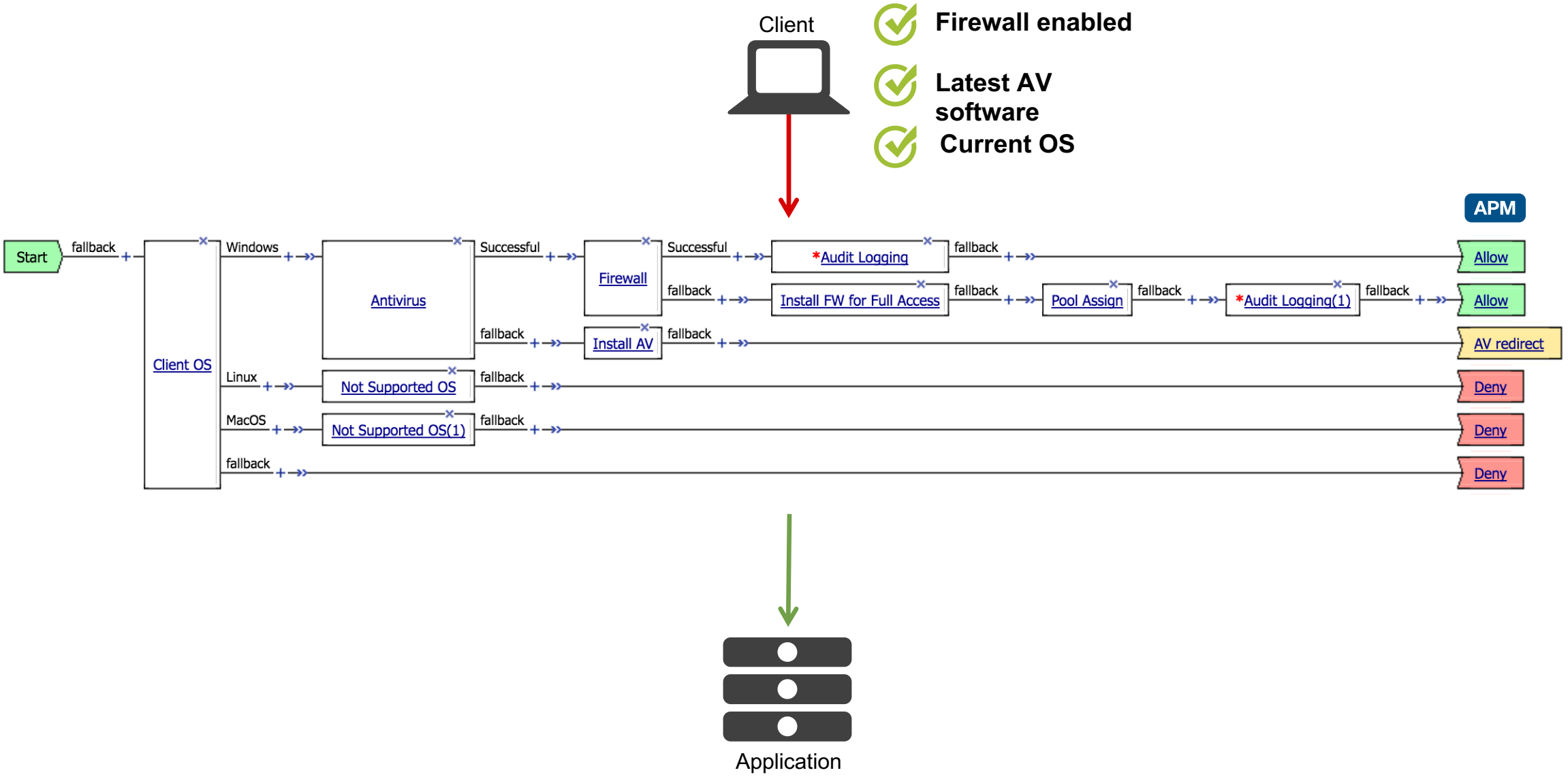


Internal vs. External Network

Step-up Authentication



Client security check



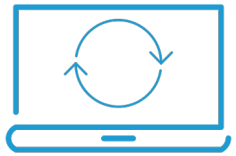
Challenge: Enforcing Zero Trust for app access

NEVER TRUST

- How should users trust be tested?
- Will users inside the network need to login to apps?
- Will users who have already accessed apps need to re-login?

ALWAYS VERIFY

- Will users need to be re-verified when attempting to access any app?
- Will users' devices and their security need to be verified?
- Will users' locations need to be checked?
- Will apps need to be verified for security and access?



CONTINUOUSLY MONITOR

- Will users' devices need to be continuously checked? How, and how often?
- Will users' locations need to be monitored continuously?
- Will users' network access need to be watched for its security?