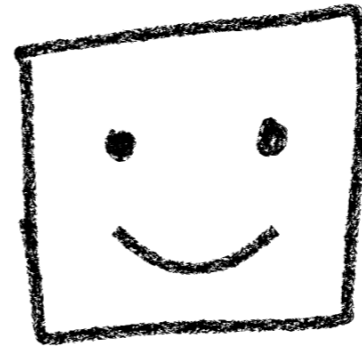
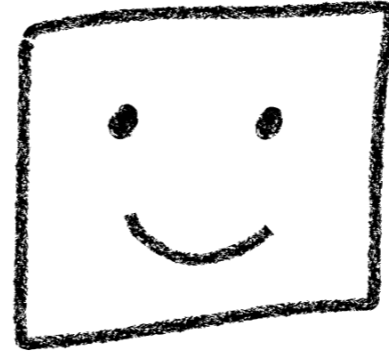
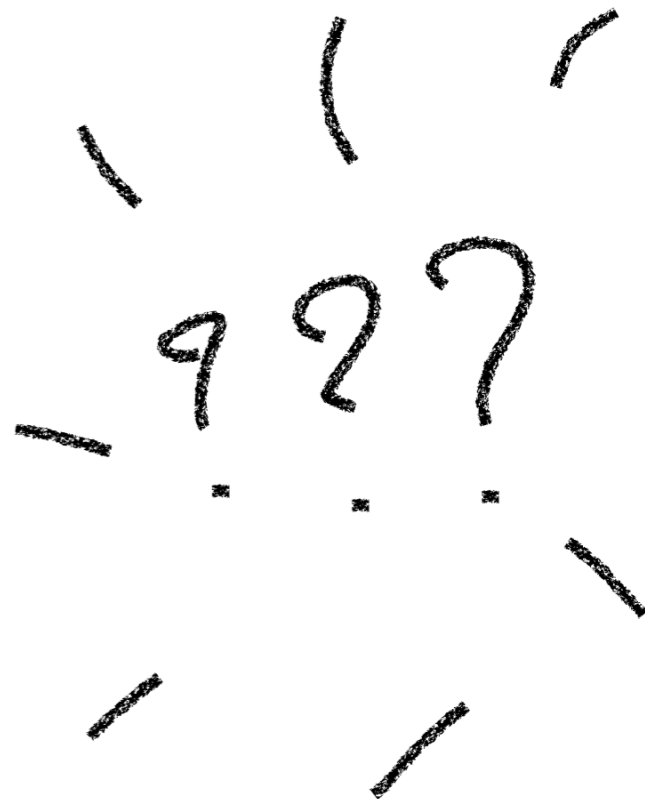
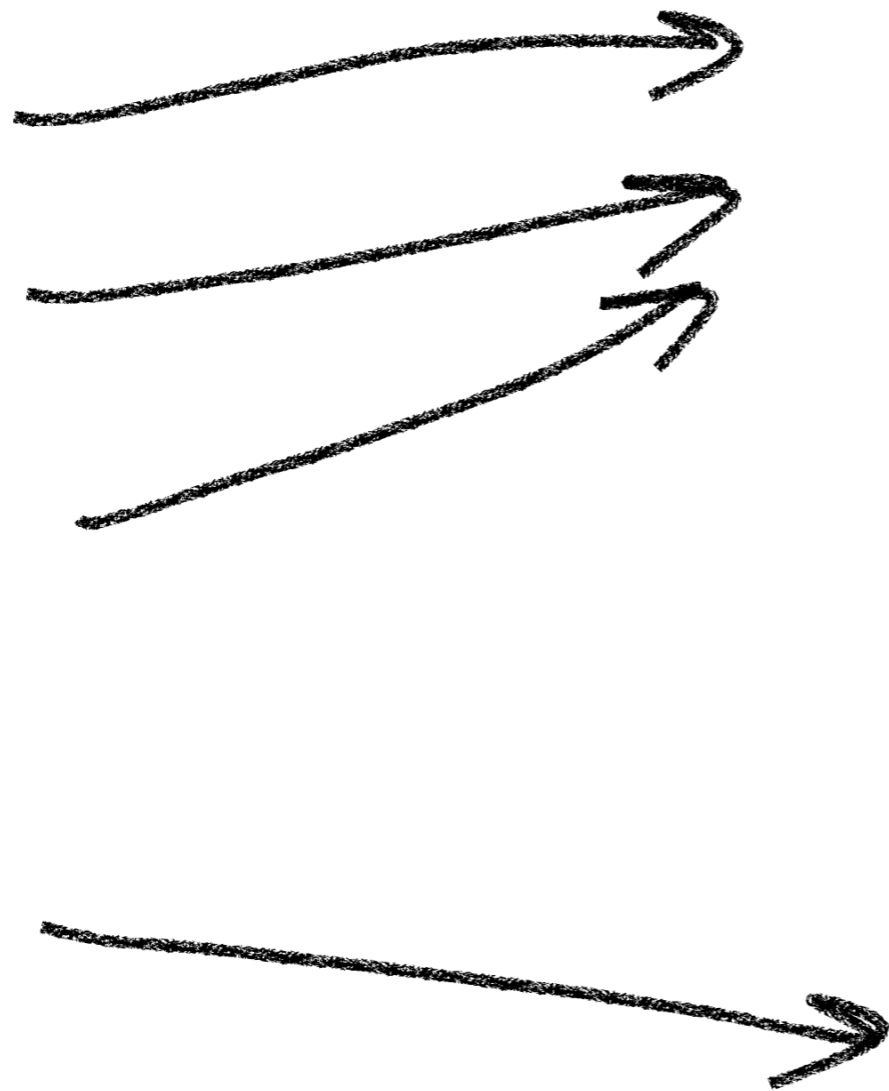


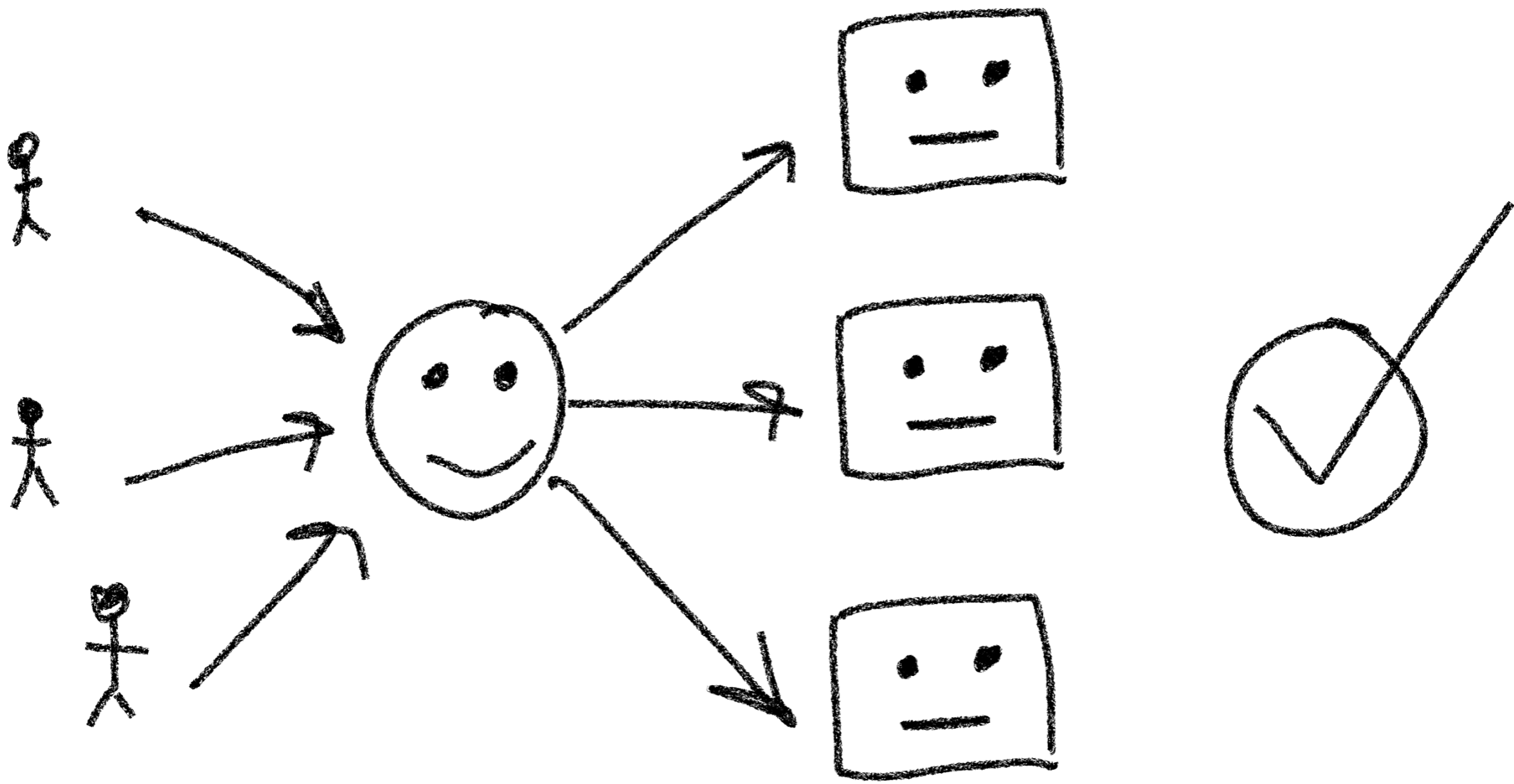
10 x \$\$\$

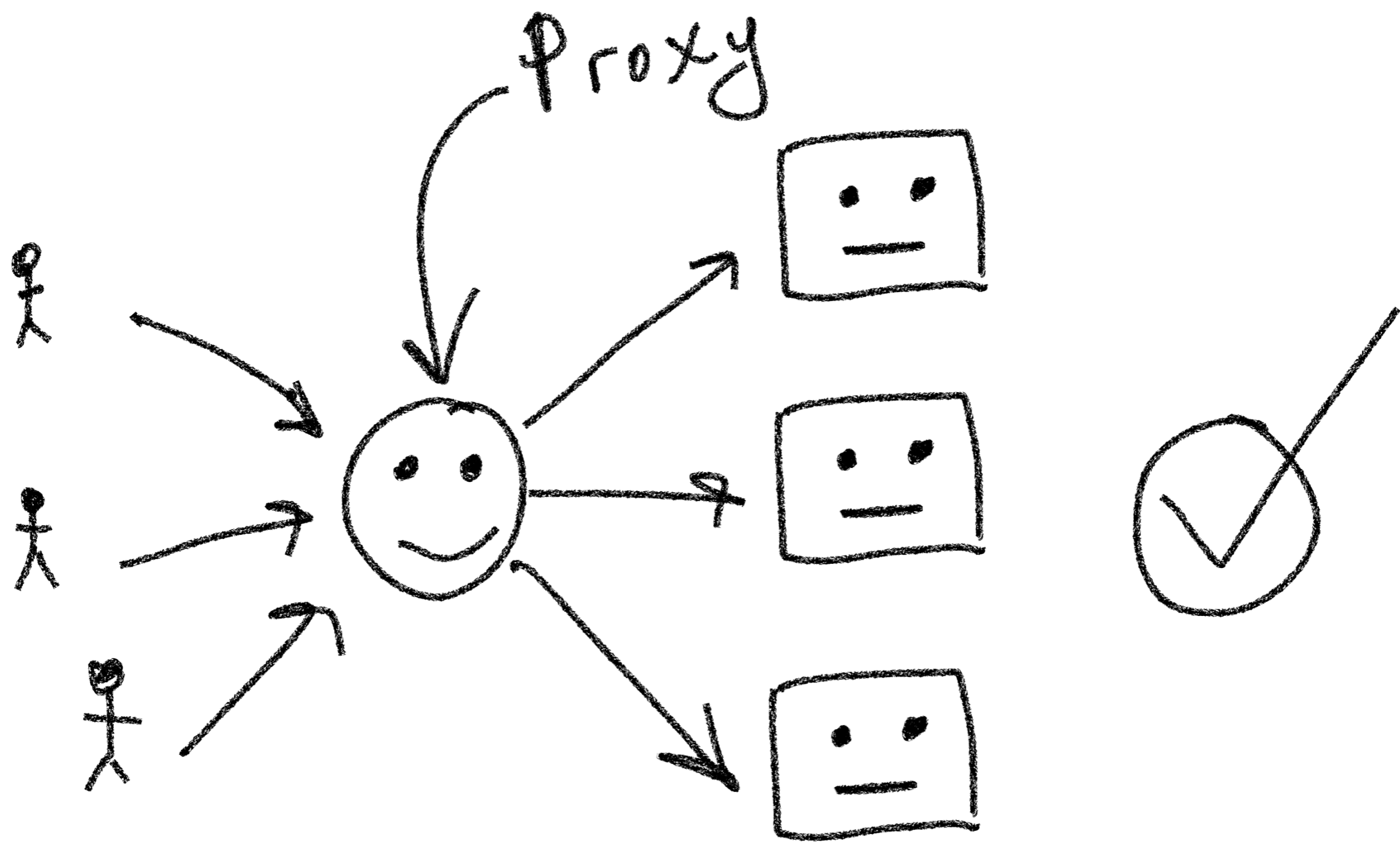


3 x \$\$\$











Наproxу

прокси, который смог :)



Наproxy

прокси, который смог :)



HAProxy

прокси, который смог :)

КТО Я

- Таир Сабыргалиев
- Работаю в BTS Digital
- Немного админ, немного прогер
- RHSE, RHCI, RHCH, JBСAA

о проекте

- <https://www.haproxy.org>
- основатель Willy Tarreau
 - 1wt.eu
 - wtarreau.blogspot.com
- <https://en.wikipedia.org/wiki/HAProxy>

Basic features 1

- Проксирование
- Балансировка нагрузки
- Залипание сессии
- Высокая доступность
- SSL-терминирование

Basic features 2

- Сжатие трафика
- Очередь запросов
- ACL-ы и условная обработка запросов
- Content switching (пример: virtual hosting)
- Stick-tables

Basic features 3

- HTTP rewriting and redirection
- Защита бэкенда
- Журналирование
- Мониторинг бэкенда
- Статистика

Advanced features

- Управляемость в рантайме
- Скриптование логики
- Перезапуск без потери соединений
- Dataplane API
- Kubernetes ingress controller

What's new in 1.5/1.6

- Lua Scripting
- Captures
- Multiprocess, peers and stick-tables
- Server IP resolution using DNS at runtime
- Variables
- Processing of HTTP request body
- Device detection
- External check
- TLS / SSL
- Peers v2
- переиспользование HTTP-соединений до бэка

What's new in 1.7/1.8

- HTTP/2 на фронте
- Multithreading
- Hitless Reloads
- HTTP Small Object Caching
- Backends in Cloud and Microservices Environments
- Server-template Configuration Directive
- DNS for Service Discovery
- Dynamic Cookies
- Improved Runtime API
- Master/Worker Mode
- TLS 1.3 0-RTT
- SSL/TLS Mode Async
- New Sample Fetches and Converters
- Lua API Improvements

What's new in 1.9/2.0

- Buffer Improvements
- Connection Management
- Native HTTP Representation (HTX)
- HTTP/2 до бэка
- поддержка gRPC
- Cloud-Native Threading & Logging
- Early Hints (HTTP 103)
- Layer 7 Retries
- Data Plane API
- Process Manager
- Stream Processing Offload Engine (SPOE) and Protocol (SPOP)

What's new in 1.9/2.0

продолжение

- Polyglot Extensibility
- Traffic Shadowing
- Kubernetes Ingress Controller
- Prometheus Exporter
- Peers & Stick Tables Improvements
- Power of Two Random Choices Algorithm
- Log Distribution & Sampling
- Built-in Automatic Profiling
- Enhanced TCP Fast Open
- New Request Actions, Converters and Fetches

Интересные дополнения

- haproxy dataplane API
<https://github.com/haproxytech/dataplaneapi>
- haproxy log analyzer
https://github.com/gforcada/haproxy_log_analysis
- Kubernetes ingress controller
<https://github.com/haproxytech/kubernetes-ingress>

Полезные ссылки

- Human readable Haproxy documentation index
<http://cbonte.github.io/haproxy-dconv/>
- Haproxy Starter Guide **MUST READ**
<http://cbonte.github.io/haproxy-dconv/2.0/intro.html>
- Haproxy custom log format
<https://www.haproxy.com/blog/haproxy-log-customization/>
- Hitless reloads HOWTO
<https://www.haproxy.com/blog/hitless-reloads-with-haproxy-howto/>
- Intro to Haproxy ACLs
<https://www.haproxy.com/blog/introduction-to-haproxy-acls/>