System Components
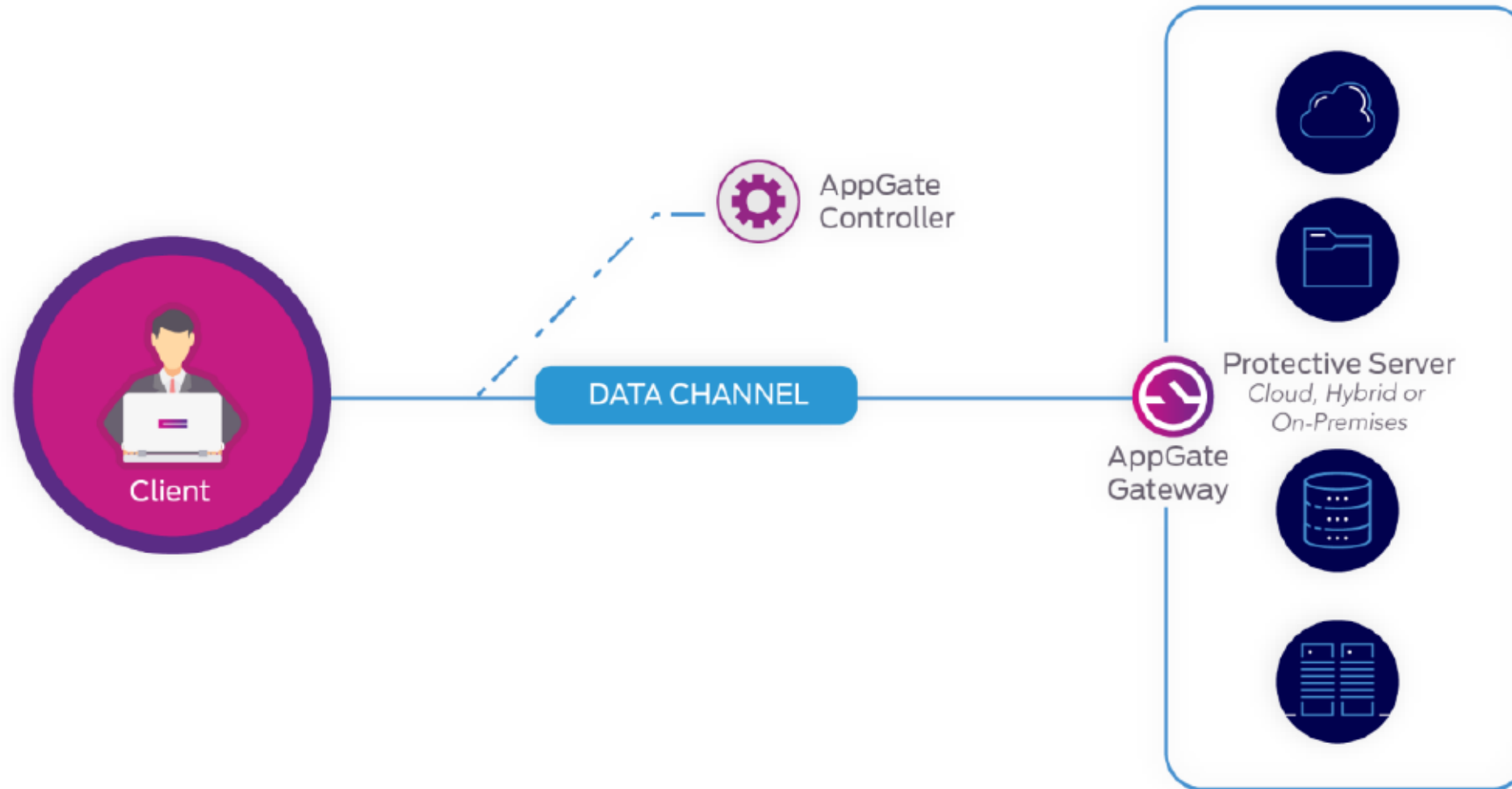
Components in the Software Defined Perimeter:
Appliance components and client components

Software Defined Perimeter

Appgate component

- **Part 1:** AppGate is run on "**Appliances**"
  - Controller Auth, Authz, Policy Management, AD Integrations etc.
  - Gateway VPN Server, Firewall, Real-time enforcer
  - LogServer (optional) Store, parse, query, visualize audit logs

- **Part 2:** AppGate Client is run on end-user device with:
  - Windows OS
  - MacOS
  - Linux
  - Android
  - iOS

Appgate component

- **Site**
    - Isolated collection of subnets
    - Mostly geographic isolated: Dallas, Boston etc.
- **Policy** that combine 2 elements
    1. **Entitlements**
        - What users can do on which conditions
        - tcp-access to GitHub IF two-factor authenticated
    2. **Policy Assignment Criteria**
        - Which user that will access to the site (require Identity provider)

Appliance File System

Appliance file system

- Overlay File System
- Read only root partition
  - After reboot those are lost
- Partitions which permanent
  - /mnt/data

```
cz@ctl1:~$ df -h
Filesystem        Size  Used Avail Use% Mounted on
udev              3.9G     0  3.9G   0% /dev
tmpfs             798M  6.5M  792M   1% /run
/dev/czvg/image1  4.0G  2.0G  1.8G  53% /mnt/root-ro
tmpfs-root        3.9G  4.2M  3.9G   1% /mnt/root-rw
overlay-root      3.9G  4.2M  3.9G   1% /
/dev/czvg/data    9.5G  283M  8.7G   4% /mnt/data
/dev/czvg/state1  960M  3.2M  890M   1% /mnt/state
tmpfs             3.9G  4.0K  3.9G   1% /dev/shm
tmpfs             5.0M     0  5.0M   0% /run/lock
tmpfs             3.9G     0  3.9G   0% /sys/fs/cgroup
/dev/xvda1        248M   64M  172M  28% /mnt/boot
```

```
cz@ctl1:~$ ls /mnt/data/
core            file-repository  log         opt         tmp
download        kibana           logd        postgresql  www
elasticsearch5  local            lost+found  rsyslog
```

- Gateways are disposable

The End