

The diagram illustrates a session management architecture across two environments: **ON EARTH** and **CLOUD**.

ON EARTH (Left Side):

- Users:** ADA, BOB, and a group of four unnamed users.
- Requests:**
 - ADA sends a `GET /search` request with IP `12.34.56.78` and a cookie `(b8qhf2...)`. A note "Home Pointer" points to the cookie.
 - BOB sends a `GET /search /know` request with a cookie `(c23b1...)`.
 - The unnamed users send a request with a cookie `000000...`.

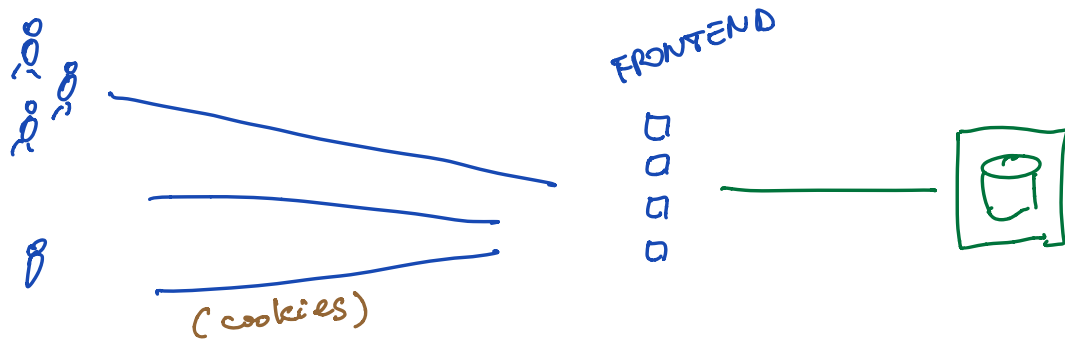
CLOUD (Right Side):

- Load Balancer:** Receives requests from the users and routes them to the front-end servers.
- Front-End Servers:** Represented by four boxes, they handle the requests and connect to the database.
- Database (Q):** A database icon connected to the front-end servers via "network connection".
- Session Table:** A table that maps cookies to sessions.

COOKIE	SESSION
b8qhf2...	Ada, ada@q...
c23b1...	..., [server icon]

A vertical purple line separates the **ON EARTH** and **CLOUD** sections.

- STORING THE DATA IN A PLACE ACCESSIBLE FROM ALL FRONT-END.
- CONSISTENCY/CONCURRENCY
- DATA BACKUPS / RECOVERY / AVAILABILITY



SERVING A REQUEST:

- 1 - You need a DB connection
- 2 - You look up the session (from cookie)
- 3 - Check if user is logged in.

Then :- Process the actual request.