## Federated Averaging Algorithm

## Server

## The *i*-th worker performs:

- 1. Receiving model parameters w from the server.
- 2. Repeating the followings:
  - a) Using w and its local data to compute gradient g.
  - b) Local update:  $\mathbf{w} \leftarrow \mathbf{w} \alpha \cdot \mathbf{g}$ .
- 3. Sending  $\widetilde{\mathbf{w}}_i = \mathbf{w}$  to the server.





