HN-PFL
$$\tau_s^L = 1$$
 $\tau_s^G = 1$ — HN-PFL $\tau_s^L = 2$ $\tau_s^G = 1$ — HN-PFL $\tau_s^L = 4$ $\tau_s^G = 1$ — H-FL $\tau_s^L = 8$ $\tau_s^G = 1$ — H-FL $\tau_s^L = 4$ $\tau_s^G = 1$ — H-FL $\tau_s^L = 8$ $\tau_s^G = 1$ FMNIST loss global FMNIST Performance Accuracy Global $\tau_s^L = 0$ $\tau_s^L = 0$