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mini-pentest-rl Documentation

This document describes the full system: environment, agents, PER, SB3 integration, and benchmarks.

Components

- gym_pentest.env.PentestEnv – env implementation with DOM parsing and attack graph
- utils.prioritized_replay.PrioritizedReplay – SumTree-backed replay with IS & beta annealing
- custom_sb3_per.PPO_PER – SB3-compatible PPO that uses PER for minibatch sampling
- agents/train_multi_agent_per_is.py – multi-agent training loop sharing PER buffer
- benchmarks/ – scripts to compare algorithms

How to run

See README.md in repo root.