Memory-Optimized RL System Architecture

Key Innovation:

95% Memory Reduction

AWS EC2 r7i.48xlarge (1.5TB RAM)

Ray Head Node

Learner Process

memray

Memory Profiler

Actor 1

1.08GB RAM

Actor 2

1.08GB RAM

Actor 3 ... *60 actors*

1.08GB RAM

Checkpoints

Amazon S3 Storage

Checkpoints & Results

Download

Local Development

Analysis & Visualization