

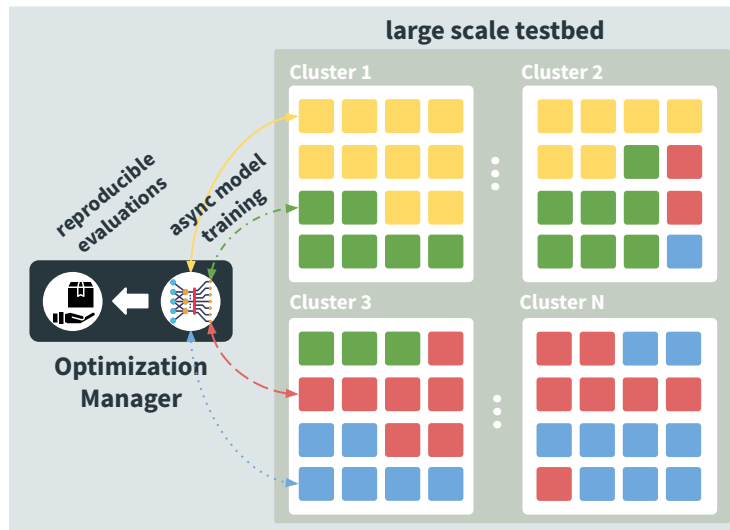
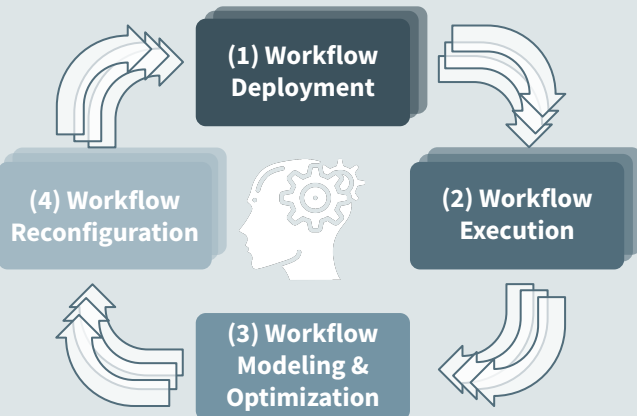
Phase I

Define Optimization Problem

$$\begin{aligned} \min/\max_x \quad & f_m(x), & m = 1, 2, \dots, M \\ \text{subject to} \quad & g_j(x) \leq 0, & j = 1, 2, \dots, J & \text{Inequality constraints.} \\ & h_k(x) = 0, & k = 1, 2, \dots, K & \text{Equality constraints.} \\ & x_i^L \leq x_i \leq x_i^U, & i = 1, 2, \dots, I & \text{Bounds on variables.} \end{aligned}$$

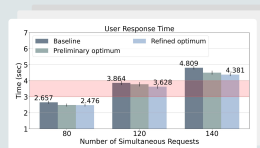
Phase II

Parallel + Scalable + Reproducible application optimization on large scale testbeds



Phase III

Summary of Computations



Reproducible Research