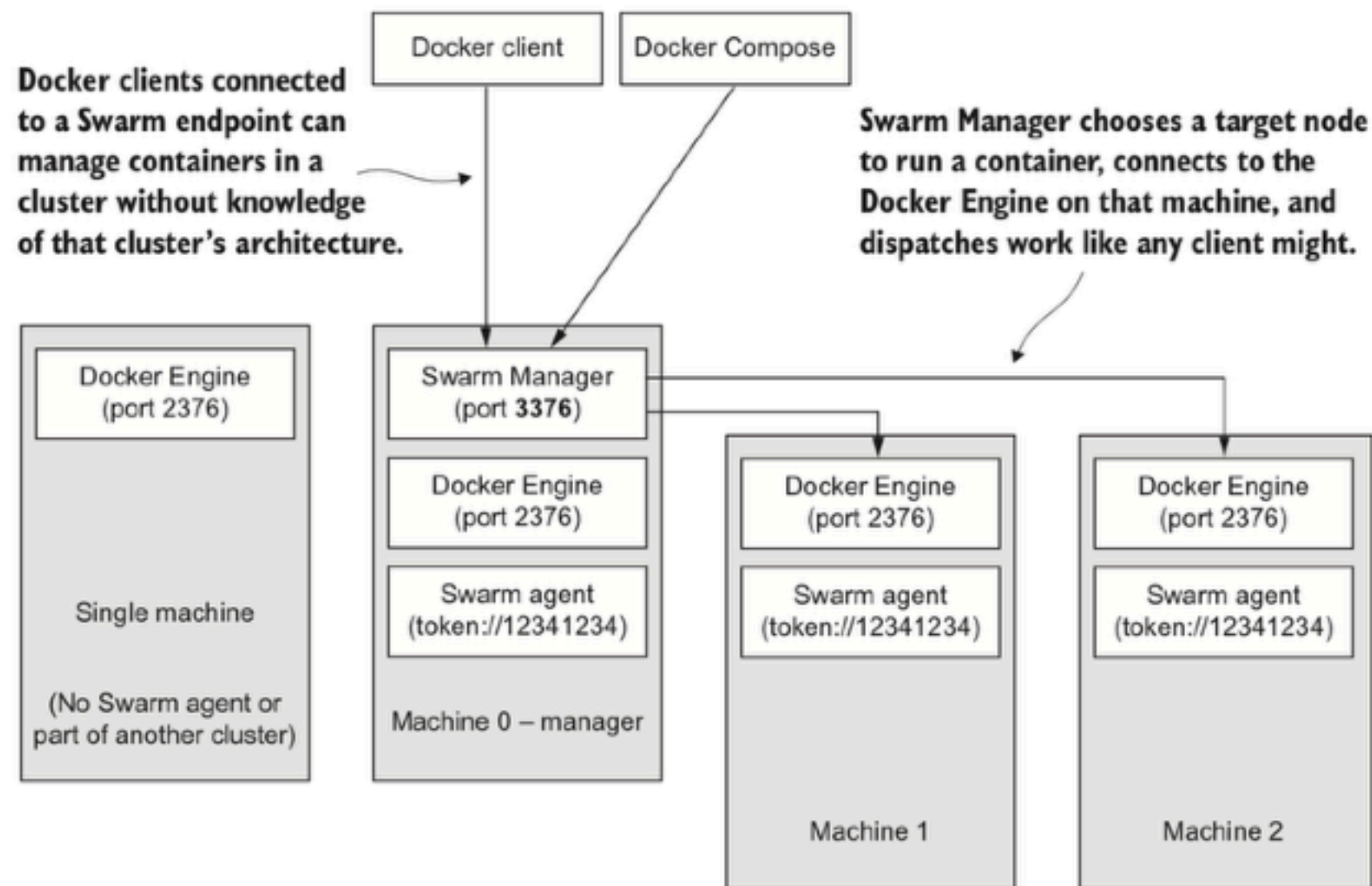# docker-swarm processes

What is it?

– Scheduling is based on location, availability, affinity and other constraints (which can be based on user-tagging of resources)

– Swarm API EXTENDS the docker remote API, so the local CLI user is unaware that they are talking to a cluster

swarm scheduling algos

- Random - like Ronseal!
- BinPack - efficient resource usage
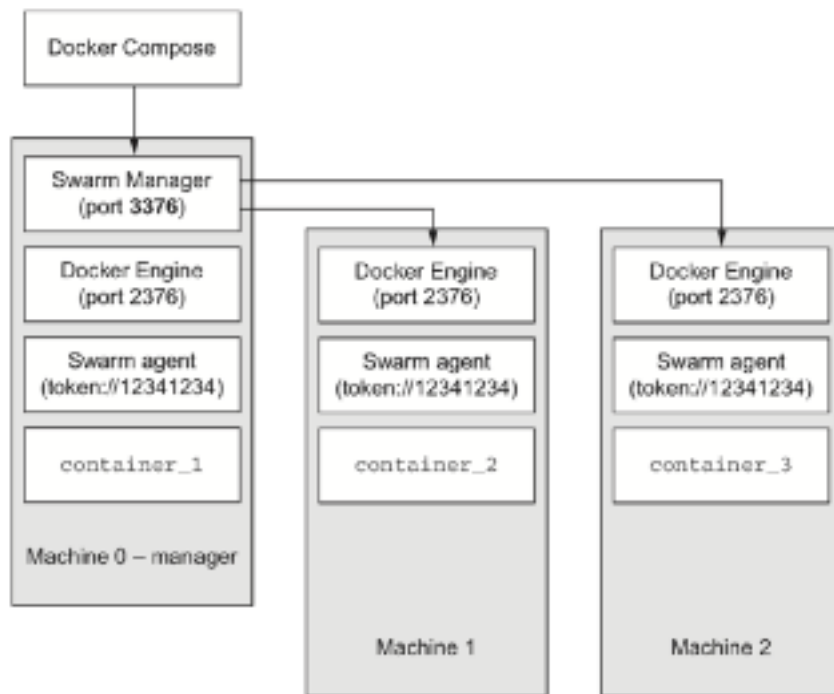- Spread - even resource usage

Figure 12.6   The Spread algorithm spreads a workload evenly across the nodes in a cluster.

BinPack selects the busiest node with available resources for a new container.

s_container_2 scheduled on Machine 0, despite resource availability on Machine I
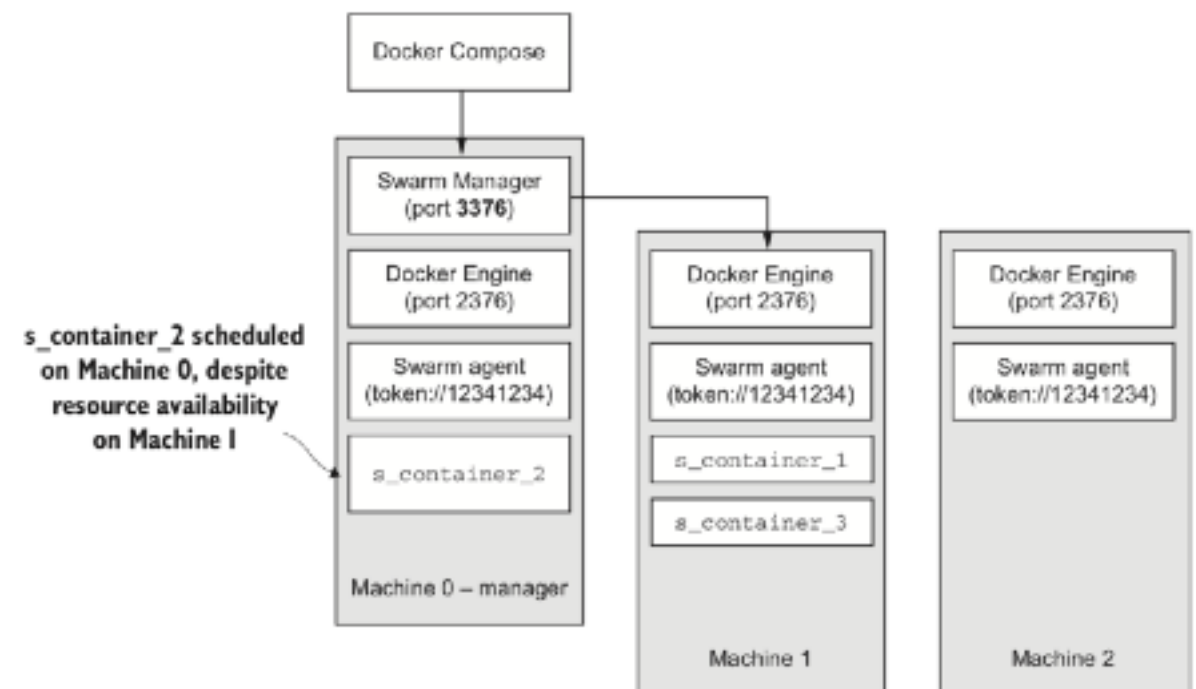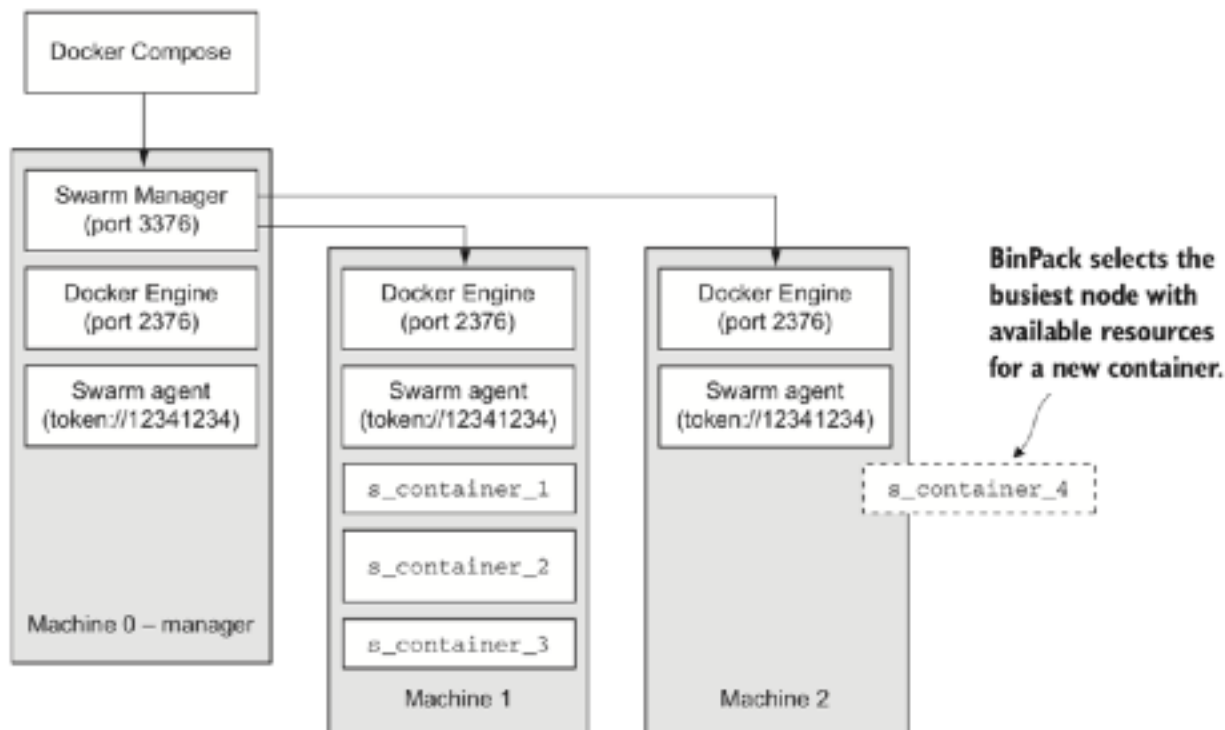
Figure 12.10   The Random scheduling algorithm considers only probability in selecting a machine.