

User Input

... LQ_j ...

Arrival times $\{T_i(n)\}$

Demands $\{\vec{\alpha}_i(n)\}$...

New queues

Resource Manager

Admission

Long-term

Y

N

Priority

Best
Effort

Y

Short
-term

N

Elastic

Allocation

- **Guaranteed resource allocation**
Allocate $\{\vec{\alpha}_i(n)\}$ to *Priority* & *Best Effort*
- **Spare resource allocation**
Fair Allocation (DRF) to *Elastic*

Allocations

Available resources

...

Node Manager

...