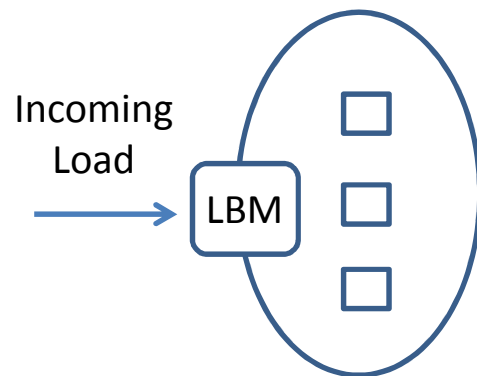
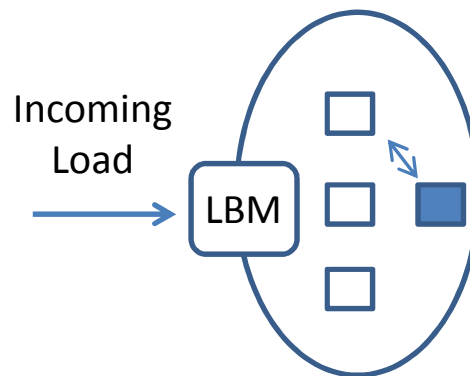


Pool Models and Redundancy

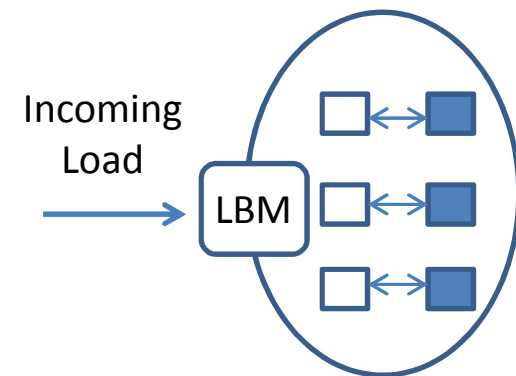
PNF (example of a primary « third load sharing »)



Model 1: Basic redundancy thanks to the presence of 3 elements - if one of them fails, the two other take care of all incoming load



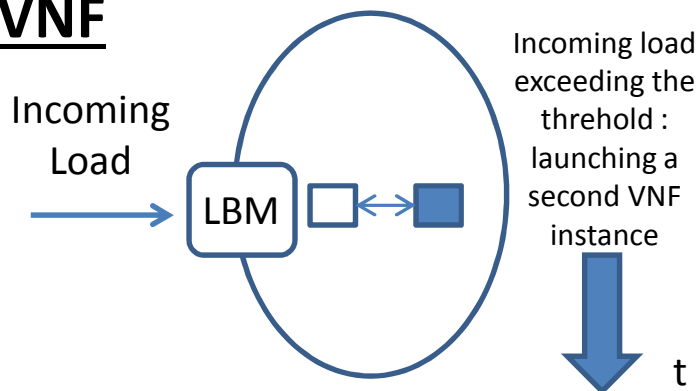
Model 2: $N+K$ ($N=3$, $K=1$) redundancy - if one of the 3 elements fails, the 4th element (in standby mode) replaces it



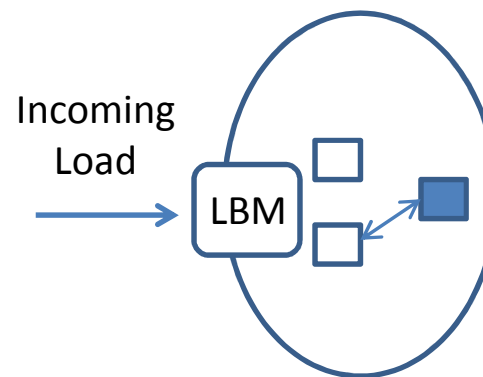
Model 3: 1:1 or 1+1 redundancy - if any of the 3 elements fails, its redundant element (in active or standby mode) replaces it

LBM: load balancing mechanism

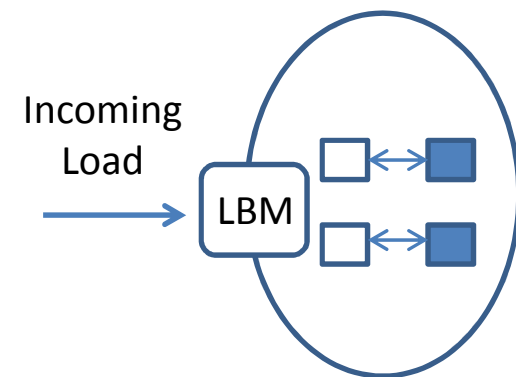
VNF



1:1 or 1+1 redundancy: if the 1st instance of the VNF fails, its redundant element (in active or standby mode) replaces it



Model 1: $N+K$ ($N=2$, $K=1$) redundancy - if any instance of the VNF fails, the redundant instance (in standby mode) replaces it



Model 2: 1:1 or 1+1 redundancy - if any instance of the VNF fails, its redundant element (in active or standby mode) replaces it