

ROS2 Concepts

- ⇒ Connections between nodes are established through a distributed discovery process.
- ⇒ Nodes may be located in the same process, in different processes, or on different machines.

* Discovery

- ⇒ Discovery of nodes happens automatically through the underlying middleware of ROS2.
- ⇒ It can be summarized as follows:
 1. When a node is started, it advertises its presence to other nodes on the network with the same ROS domain.
 - ↳ Nodes respond to this advertisement with information about themselves, so that the appropriate connections can be made and the nodes can communicate.
 2. Nodes periodically advertise their presence so that connections can be made with new-found entities, even after the initial discovery period.
 3. Nodes advertise to other nodes when they go offline.