

# Add Node and Role

This document describes how to add nodes to the distributed infrastructure and how to assign them roles.

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## Add Node

To add a new node to your infrastructure:

1. Click the [Add Node](#) icon available in the Infrastructure Operations section. The **Add Node to Infrastructure** pop-up window will be displayed.
2. Fill in the required options:
  - **Node ID:** This is an informative field, as the node ID is generated automatically. Each node in the infrastructure has a unique NodeID.
  - **Hostname:** Enter the hostname you want here. The hostname is unique in the infrastructure (no other node should have it).
  - **Private IP Addresses:** Only one IP address is necessary.
  - **Public IP Addresses:** The public IP address might be necessary, based on the role you plan to run on the node.

It is not required to add a public IP address! Keep in mind the requirements of the different roles you might want to run on the node. The distributed database requires only one private IP.

This area is purely informative. It is not necessary for these IPs to be bound to the container that will eventually run the node. They could get there using any form of network virtualization, for example using NAT.

3. Click [OK](#) to apply your settings.

## Assign a Role on Node

Only a single role can be assigned on a node. The situation where you have multiple roles on a single node is specific to the product installation. Only the node you installed first will have multiple roles. Some roles might be deleted from that role and assigned to new nodes, but you must let the infrastructure controller role run there.

Once the node has been added, you can assign it with a role:

1. Click on the [Assign a Role](#) link in the **Role(s)** column from the nodes list. The **Assign Role** pop-up window will be displayed.
2. You are now required set up your role. You can find a detailed guide on each role's specific options in the [Set Up Role Parameters](#) section.
3. After you have set up the role, you can confirm your settings by clicking [OK](#). A confirmation message containing a session key will be shown. It is recommended you write it down as [you will need it later](#).

Please note that the Distributed Database role **cannot be assigned** if there are more than 3 extensions on the server.