

# Adding and removing nodes from a cluster with manager nodes

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## Add data-only nodes to a cluster with manager nodes

If you want to increase the capacity of your Explore cluster, you can add more data-only nodes. After deploying the new node, you must modify the Running Config to designate the node role before adding the new node to the existing cluster.

Additional data-only nodes must match the specifications of the existing data-only nodes in the Explore cluster.

### Before you begin

- Deploy the new data-only nodes according to the guide for your implementation, but do not join the nodes to the cluster.
  - Register each data node with the correct product license.
1. Log in to the Administration settings on the new data node through `https://<extrahop-hostname-or-IP-address>/admin`.
  2. Join the new nodes to the existing cluster.
  3. In the Appliance Settings section, click **Running Config**.
  4. Click **Edit config**.
  5. Add an entry to the Running Config file by completing the following steps:
    - a) Add a comma after the second to last curly brace (}).
    - b) Press ENTER to create a new line.
    - c) Paste the following code on the new line before the final curly brace:

```
"cluster": {  
    "master": false,  
    "min_master_nodes": 2  
}
```

6. Click **Update**.
7. Click **Done**.
8. Click **Save config** and then click **Save**.
9. In the Appliance Settings section, click **Shutdown or Restart**.
10. Next to the Search service, click **Restart**.
11. Repeat these steps on each data-only node.

## Remove a node from a cluster with manager nodes

Complete the following steps to remove a node from an Explore cluster.

1. Log in to the Administration settings on the node you want to remove.
2. In the Explore Cluster Settings section, click Cluster Members.
3. Review the node role at the top of the page.
  - a) Data-only nodes can be removed as needed.
  - b) A single manager-only node can be temporarily removed, but if you want to remove multiple manager-only nodes, contact ExtraHop Support for help.

4. In the Actions column, click **Leave Explore Cluster** next to the node that you are currently logged in to, and then click **OK**.