# Configure an existing Explore cluster with manager-only nodes

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If your Explore cluster was deployed without manager-only nodes, and includes six to nine data-only nodes, complete the procedures in this guide.

**Before you begin**

- Review the specifications and guidelines in Deploying manager-only nodes 🗗
- Deploy the new manager-only nodes according to the guide for your implementation 🗗, but do not join the nodes to the cluster or connect the nodes to ExtraHop packet sensors or ExtraHop consoles. Depending on your implementation, reduce the data disk size to meet the manager-only node specifications 🗗.
- Register each manager-only node 🗗 with the correct product license. Manager-only nodes have dedicated SKUs; be sure to verify these licenses with your account team.

## Disable record ingest

1. Log in to the Administration settings through `https://<extrahop-hostname-or-IP-address>/admin` on any data-only node.
2. In the Explore Cluster Settings section, click **Cluster Data Management**.
3. Click **Disable Record Ingest**.

**Next steps**
Join each manager-only node 🗗 to the existing Explore cluster and then continue to configure the new manager-only nodes.

## Configure three manager-only nodes

1. Log in to the Administration settings on a node intended for cluster task management.
2. In the Appliance Settings section, click **Running Config**.
3. Click **Edit config**.
4. Add an entry to the running configuration 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": {
           "data": false,
           "min_master_nodes": 2
       }
   ```

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

## Configure the data-only nodes

1. Log in to the Administration settings on a node intended for data storage.
2. In the Appliance Settings section, click **Running Config**.
3. Click **Edit config**.
4. Add an entry to the running configuration 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
       }
   ```

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

**Next steps**

After all of the nodes are configured with their designated role, connect each data-only node to ExtraHop packet sensors and ExtraHop consoles ⤢. Manager nodes should not be connected to sensors or consoles.

> **Tip:** Learn how to add or remove nodes from a cluster that has manager-only nodes ⤢.

## Enable record ingest

1. Log in to the Administration settings on any data-only node.
2. In the Explore Cluster Settings section, click **Cluster Data Management**.
3. Click **Enable Record Ingest**.