Convert an existing Explore cluster that has manager nodes

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If your Explore cluster was configured with a single manager node or you converted full-sized nodes to serve as dedicated managers, complete the procedures in this guide to convert your existing nodes to data-only and add three dedicated manager-only nodes.

Depending on your cluster configuration, you might need to convert former manager nodes (such as a physical node or larger virtual node configured as manager-only node) to data-only nodes or you might need to remove a former manager-only node from the cluster.

- If the cluster has a manager node with insufficient resources, you should remove that node from the cluster.
- If the cluster has a single manager node that meets the resource specifications, you only need to deploy two other manager-only nodes.
- If the cluster has a manager node with the full resources required for a data-only node, you can repurpose the higher-resourced node as a data-only node and deploy three new manager-only nodes.

Before you begin

- Review the specifications and guidelines in Deploying manager nodes ⤢
- Deploy the new manager nodes according to the guide for your implementation ⤢, but do not join the nodes to the cluster or connect the nodes to Discover or Command appliances. Depending on your implementation, reduce the data disk size to meet the manager node specifications ⤢.
- Register each manager 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 on any data-only node.
2. In the Explore Cluster Settings section, click **Cluster Data Management**.
3. Click **Disable Record Ingest**.

Update the Running Config for all existing nodes

1. Log in to the Administration settings through `https://<extrahop-hostname-or-IP-address>/admin` on an existing node in the cluster.
2. In the Appliance Settings section, click **Running Config**.
3. Click **Edit Config**.
4. In the section for cluster, delete any entries for `"min_master_nodes"` or `"master": false.`
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 existing node in the cluster.

Next steps
Join each manager-only node ⤢ to the existing 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 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": {
           "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 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
       }
   ```

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 data-only node.

Next steps

After all of the nodes are configured with their designated role, connect each data-only node to Discover and Command appliances ⧉. Manager nodes should not be connected to a Discover or Command appliance.

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

Verify Running Config settings for all nodes

It is critical that only three nodes in the cluster section have entries for `"data": false`.

1. Log in to the Administration settings through `https://<extrahop-hostname-or-IP-address>/admin` on an existing node in the cluster.
2. In the Appliance Settings section, click **Running Config**.
3. Click **Edit Config**.
4. Review the entry in the section for cluster and verify that the node has the correct entry for the node role (such as `"data": false` for manager-only nodes and `"master":false` for data-only nodes). Repeat these steps for each node in the cluster. If more than three nodes in the cluster have an entry for "data": false, review your node specifications and update the entries.

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