

HP Vertica Analytics Platform Version 6.1.x Documentation

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This section describes how to change the IP addresses of the nodes in an HP Vertica cluster.

Note: This process requires that you stop the database on all nodes, then subsequently stop the database on individual nodes as you update IP addresses.

These instructions assume you will make the standard OS changes to change the IPs (for example, updating `/etc/hosts`) in Step 4 of this procedure. These instructions detail only the H Consult the documentation for your particular OS platform for details on changing the IP address of the host.

To change the IP address of one or more nodes in a cluster:

- Before changing the IP address on the Host, back up the following three files on all nodes:
 - `/opt/vertica/config/admintools.conf`
 - `/opt/vertica/config/vspread.conf`
 - `/etc/sysconfig/spreadd`
- Stop HP Vertica on all nodes.
- As root, on each node, stop spread by using the following command:


```
/etc/init.d/spreadd stop
```
- Change the IP addresses of the hosts as required by your operating system platform.
- On each node edit `/opt/vertica/config/admintools.conf` and change the IPs as required.

You can use sed to change each IP in the file, for example to change 10.10.81.8 to 192.168.150.108 issue the command:

```
sed -i 's/10.10.81.8/192.168.150.108/g' /opt/vertica/config/admintools.conf
```
- On each node edit `/opt/vertica/config/vspread.conf`:
 - Change the old IPs to the new IPs as required.
 - Locate the N number for each IP and change it to match the new IP. For example, if the old IP is 10.10.81.8, then the corresponding N number is N010010081008. N numbers c number segment, padded with zeros when appropriate (10 becomes 010, 8 become 008, etc.). If the new IP address is 192.168.150.255, then the new corresponding N number
- On each node edit `/etc/sysconfig/spreadd` and change the N number to that node's new N number as you specified in `vspread.conf`.
- As root, on each node start spread by using the following command:


```
/etc/init.d/spreadd start
```
- Start the database.
- Run vsql.
- In vsql, issue the following query to verify the new IP has been updated:


```
select host_name from host_resources;
```

You can also verify IPs with the following shell commands:

 - `cat /var/log/spreadd.log`
 - `admintools -t list_host`
 - `cat /etc/hosts`
- Update the database to use the new IPs for reporting node status:
 - In vsql, issue the command `select node_name, node_address from v_catalog.nodes;` to show you the current node names configured.
 - For each node in the result, change the hostname to the new IP address. **Note:** the node must be down to change the IP using the alter node command. You must bring the node dc NODE_NAME property for that node:
 - Bring the node down that you are going to update (don't bring down the node from which you are using vsql!). You can bring down the node from the initiator node using admintools `admintools -t stop_node -s 192.168.150.255`
 - Update the IP address by issuing the command: `alter node NODE_NAME is hostname 'new.ip.address';` where NODE_NAME is the node_name and new.ip.address is the
 - Bring the node back up, check it's status in the nodes table (`select node_name, node_state from nodes;`), and wait for that node's status to be UP. You can use admintor restart the node. You must provide the database name. For example: `admintools -t restart_node -s 192.168.150.255 -d VMart`
 - Repeat the process for the next node in the result. After all nodes have been updated except the node from which you are using vsql, log out of vsql, then log into vsql from another for the node from which you were previously using vsql.

See Also

[Configure Hostname Resolution](#)

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