

Part XVII: Administering Informix



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Administering Informix

The following information describes common tasks that an administrator performs to maintain an Informix database in production.

- [Exec into the Informix pod](#)
To do some common administration tasks, you must be able to run the `exec` command on the Informix pod.
- [Stopping and starting an Informix instance](#)
Stop and start an Informix instance inside a container to perform maintenance tasks.
- [Monitoring Informix startup after rebooting a node](#)
When a node is restarted, confirm that Informix successfully starts up by monitoring the startup progress.
- [Viewing Informix log files](#)
Use one of the following procedures to view the Informix server logs.

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Stopping and starting an Informix instance

Stop and start an Informix instance inside a container to perform maintenance tasks.

1. Run the `exec` command on the Informix pod.
2. Temporarily disable the live-ness probe:

```
cp $SCRIPTS/informix_alive.sh $SCRIPTS/informix_alive_probe.sh
cp $SCRIPTS/informix_alive_always.sh $SCRIPTS/informix_alive.sh
```

3. Run the `onmode -kuy` command and perform the maintenance tasks that you want.
4. When the maintenance tasks are completed, restart Informix with the `oninit` command.
5. Re-enable the live-ness probe:

```
cp $SCRIPTS/informix_alive_probe.sh $SCRIPTS/informix_alive.sh
```

6. Confirm that the Informix server is online:

```
onstat -
```

Tip: You might have to run these commands several times before the Informix server is shown as online.

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Monitoring Informix startup after rebooting a node

When a node is restarted, confirm that Informix successfully starts up by monitoring the startup progress.

Informix should automatically start up after a Kubernetes worker node is started and the kubelet starts all the pods on the node. You can run a series of commands to monitor the startup progress.

1. Run the command `oc get nodes` and check the output to verify the following:
 - The Kubernetes worker nodes that were rebooted are in a ready state.
 - All nodes with the etcd operator role are in a ready state.
2. Monitor the Informix pod startup progress:

```
oc -n <namespace> get pods | grep informix
```

3. Check that all Informix database services pods are in a running state:

```
oc -n <namespace> get pods --selector app.kubernetes.io/name=ibm-informix-prod
```

4. Confirm that the Informix instance is healthy.
 - a. [Exec into the Informix pod](#).
 - b. Run the following commands for a sanity test on the health of the Informix instance:

```
onstat - # Should show 'On-Line'  
dbaccess sysmaster - # Confirm you can connect to the database
```

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Viewing Informix log files

Use one of the following procedures to view the Informix server logs.

1. To view Informix container log files, do the following:
 - a. Get the name of the Informix database server pod:

```
oc -n <namespace> get pods --selector app.kubernetes.io/name=ibm-informix-prod
```

- b. Use `oc logs` to view the Informix database container logs:

```
oc -n <namespace> logs <Informix engine POD name> | more -
```

2. To view Informix log files, do the following:
 - a. Run the `exec` command on the Informix pod.
 - b. Go to the Informix server log directory folder `/opt/ibm/data/logs/`.
 - c. View/tail the Informix log:

```
tail -f online.log
```

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