

Backing Up and Restoring the CWSI Database on UNIX

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Introduction

This technical tip provides instructions for backing up and restoring the CiscoWorks for Switched Internetworks (CWSI) database on the UNIX platforms, Solaris, HP-UX, and AIX.

- Backing up the CWSI Database
- Restoring the CWSI Database

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Before You Begin

It is important to consider these items before you begin:

- These procedures assume the **CSCOcws** directory is located under `/opt/CSCOcws`. If this is not the case, use the correct path.
- These procedures assume the **backup** directory is `/tmp/BACKUP`. If this is not the case, use the

correct path.

- You *must* log in as the **root** user in order to complete the tasks in this document.
- When you restore database files created on a different system, make sure the CWSI versions are the same. For example, a database backed up on CWSI 2.4 must be restored on CWSI 2.4.

Backing Up the CWSI Database

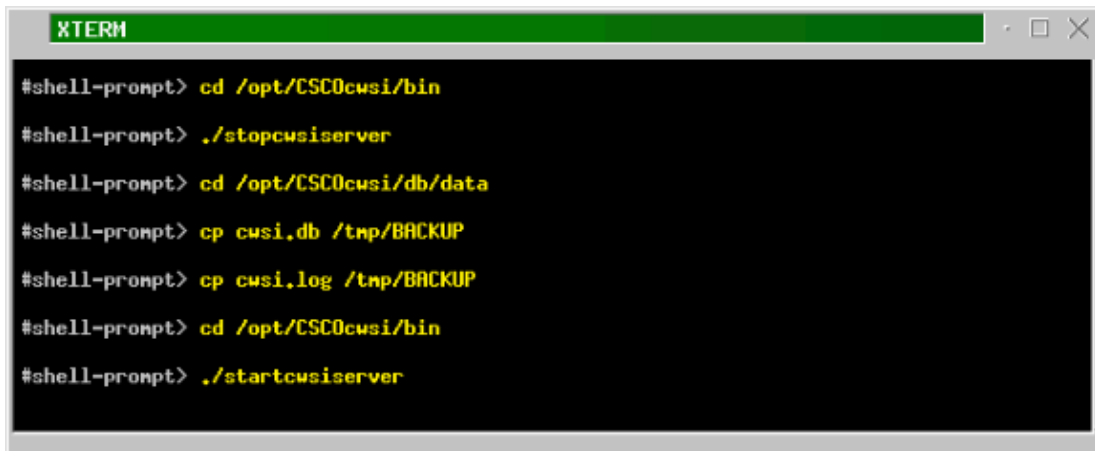
Complete these steps:

1. Close the CWSI program, if it runs.
2. Start an XTerm and become the **root** user.
3. Choose the `/opt/CSCOcws/bin` directory.
4. Run the `/opt/CSCOcws/bin/stopcwsiserver` command in order to terminate the CWSI discovery daemons.
5. Choose the `/opt/CSCOcws/db/data` directory.
6. Copy the `cws.db` file to the backup directory.
7. Copy the `cws.log` file to the backup directory.

Note: The `cws.log` file is the database transaction log, and can potentially not exist after you shut down the database. If this file does not exist, there is not a problem. Do not be concerned. But, if this file exists after you shut down the database, you must back it up.

8. Make sure these files are present in the backup directory:
 - ◆ `cws.db`
 - ◆ `cws.log`, but only if this file exists in the `/opt/CSCOcws/db/data` directory.
9. Run the `/opt/CSCOcws/bin/startcwsiserver` command in order to start the CWSI discovery daemons.

This image shows an example backup session.



```
XTERM
#shell-prompt> cd /opt/CSCOcws/bin
#shell-prompt> ./stopcwsiserver
#shell-prompt> cd /opt/CSCOcws/db/data
#shell-prompt> cp cws.db /tmp/BACKUP
#shell-prompt> cp cws.log /tmp/BACKUP
#shell-prompt> cd /opt/CSCOcws/bin
#shell-prompt> ./startcwsiserver
```

Restoring the CWSI Database

After you have successfully backed up the CWSI, see Backing Up the CWSI Database, complete these steps in order to restore the database on the same system or another CW2000 system:

Note: When you restore database files created on a different system, make sure the CWSI versions are the same. For example, a database backed up on CWSI 2.4 must be restored on CWSI 2.4.

1. Close the CWSI program, if it runs.

2. Start an XTerm and become the **root** user.
3. Make sure these files are present in the backup directory:

- ◆ **cwsi.db**
- ◆ **cwsi.log**, but only if the file is backed up

Note: The **cwsi.log** file is the database transaction log, and can potentially not exist after you shut down the database. If this file does not exist, there is not a problem. Do not be concerned. But, if this file exists after you shut down the database, you must back it up.

4. Change to the directory `/opt/CSCOcwsi/bin` directory.
5. Run the `./stopcwserver` command in order to stop the CWSI discovery daemons.
6. Change to the `/opt/CSCOcwsi/db/data` directory.
7. Remove the current **cwsi.db** file:

```
rm /opt/CSCOcwsi/db/data/cwsi.db
```

8. Remove the current **cwsi.log** file, if it exists:

```
rm /opt/CSCOcwsi/db/data/cwsi.log
```

9. Copy the file **cwsi.db** from the backup directory to the current directory:

```
cp /tmp/BACKUP/cwsi.db /opt/CSCOcwsi/db/data
```

10. Copy the file **cwsi.log**, if it was backed up, from the backup directory to the current directory:

```
cp /tmp/BACKUP/cwsi.log /opt/CSCOcwsi/db/data
```

11. Change the **ownership** of the **cwsi.db** file to the user **bin** and group **bin**.
12. Change the **ownership** of the **cwsi.log** file, if it exists, to the user **bin** and group **bin**.
13. Change the file permissions of the **cwsi.db** file:

```
chmod 400 /opt/CSCOcwsi/db/data/cwsi.db
```

Note: If **cwsi.log** was also backed up, because it existed originally, you must change both the database and log file permissions to **600**:

```
chmod 600 /opt/CSCOcwsi/db/data/cwsi.db
```

14. Change the file permissions of the **cwsi.log** file:

```
chmod 400 /opt/CSCOcwsi/db/data/cwsi.log
```

Note: If **cwsi.log** was also backed up, because it existed originally, you must change both the database and log file permissions to **600**:

```
chmod 600 /opt/CSCOcwsi/db/data/cwsi.log
```

15. Run the `/opt/CSCOcwsi/bin/startcwserver` command in order to start the CWSI discovery daemons.
16. The restored backup database is now be available.

This image shows an example backup restore session.

```
xTERM
#shell-pronpt> /opt/CSC0cusi/bin/stopcusiserver
#shell-pronpt> rm /opt/CSC0cusi/db/data/cusi.db
#shell-pronpt> rm /opt/CSC0cusi/db/data/cusi.log
#shell-pronpt> cp /tmp/BACKUP/cusi.db /opt/CSC0cusi/db/data
#shell-pronpt> cp /tmp/BACKUP/cusi.log /opt/CSC0cusi/db/data
#shell-pronpt> chown bin:bin /opt/CSC0cusi/db/data/cusi.db
#shell-pronpt> chown bin:bin /opt/CSC0cusi/db/data/cusi.log
#shell-pronpt> chmod 755 /opt/CSC0cusi/db/data/cusi.db
#shell-pronpt> chmod 755 /opt/CSC0cusi/db/data/cusi.log
#shell-pronpt> /opt/CSC0cusi/bin/startcusiserver
```

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