



# Platform Operation

## Part 3

# Topics

- Backup
- Restore

# Backup and Restore - Considerations

## Backup

It is strongly recommended to perform backups across all components across all DCs while they have the same configuration state.

- Cassandra - Backup Cassandra nodes one at the time. The backup process temporarily shuts down Cassandra, so you do not want to run it at the same time for all Cassandra nodes. Performing a rolling backup allows for adequate Cassandra availability in a 3 or more Cassandra nodes installation.
- Zookeeper - Same considerations as for Cassandra. The backup process temporarily shuts down ZooKeeper.
- Postgres - If your installation contains more than one PostgreSQL master. Backup Postgres nodes one at the time. That will eliminate UI impact. In a Postgres Master/Standby configuration, you only backup the Master. You do not have to backup the slave.

## Restore

When you restore one of ZooKeeper, Cassandra or LDAP nodes it is recommended to restore all three nodes in order to achieve consistency (especially when organizations/environments have been created since backup was created).

# Backup and Restore - Considerations

Use the following command to perform a backup:

```
/opt/apigee/apigee-service/bin/apigee-service <component> backup
```

For example:

```
/opt/apigee/apigee-service/bin/apigee-service apigee-cassandra backup
```

The backup command perform the following actions:

- Stops the component (except for PostgreSQL which must be running to backup).
- Creates a tar file of the following directories and files, where comp is the name of the component:
  - Directories
    - /opt/apigee/data/<component>
    - /opt/apigee/etc/<component>.d
  - Files if they exists
    - /opt/apigee/token/application/<component>.properties
    - /opt/apigee/customer/application/<component>.properties
    - /opt/apigee/customer/defaults.sh
    - /opt/apigee/customer/conf/license.txt
- Writes the tar file to /opt/apigee/backup/<component>. The name is in the form: backup-(year).(month).(day),(hour).(min).(seconds).tar.gz.  
For example: backup-2016.03.17,14.40.41.tar.gz
- Restarts the component (except for PostgreSQL which must be running to backup).

# Restoring components

Use the following command to perform a restore:

```
apigee-service <component> restore <backup-file>
```

For example:

```
apigee-service apigee-cassandra restore backup-2016.03.17,14.40.41.tar.gz
```

The backup file is optional. If omitted, it uses the latest file in /opt/apigee/backup/<component>

Note: There is no "all" restore command. You must restore component individually.

The restore command performs the following actions:

- Gets the latest backup file, if a filename was not passed in, or uses the specified backup file.
- Checks to see if the directories are empty
- /opt/apigee/data/comp
- /opt/apigee/etc/comp.d
- If the above directories are not empty, restore stops and ask you to remove them.
- Stops the component.
- Restore the component from the backup.

Action required: You must explicitly restart the component after a restore.



# Thank You