TeamCity stores its data in 2 separate repos:

**1. The Data Directory - /data/teamcity\_server/datadir**

Contains server settings, build artefacts, logs & configuration

**2. Database (MySQL)**

Build Information, configuration & statistics

For migration, both of the above need to be backed up and restored to the new server/setup.

The maintainDB tool as well as the Backup option under the TeamCity Administration section (Admin UI) create backup of both the data directory and the database.

**Step 1: Backup**

**Method 1: Using the maintainDB tool**

Located at <TeamCity Home>/bin as an **sh** file.

To Backup configuration + database + build logs + personal changes + supplementary data, run the following command:

maintainDB.sh backup -C -D -L -P -U

By default the backup will be created in the <TeamCity Data Directory>/backup folder.

**Method 2: TeamCity Admin UI (Preferred**)

1. Login to the current TeamCity server. Then navigate to the Administration screen and then select the "Backup" option. Enter a name for the backup, then select the items you want to backup and click "Start Backup".
2. Once the backup is complete, teamcity will display a summary showing the backup path as well. The backup file is located in the /data/teamcity\_server/datadir/backup folder. Download the backup file to restore it later.
3. For a Full backup, use the custom scope with all items selected.
4. Build artifacts are not included in the backup due to their size. Create a backup for them separately. Artifacts are located in the /data/teamcity\_server/datadir/system/artifacts folder. Download the backup of the artifacts folder as well.

**Step 2: Install TeamCity server on a new server**

Already installed.

**Step 3: Restore**

**Method 1: Using the maintainDB tool**

1. Copy the backup created from the maintainDB tool to the new TeamCity server.
2. Create a new empty TeamCity Data Directory on the new server.
3. Create a config subdirectory inside the newly created TeamCity Data Directory.
4. To restore the backup to a new external database, configure a database.properties file with the database settings to be passed to the restore command later and place it in the config directory.

Sample database.properties file:

connectionProperties.user=teamcity

connectionProperties.password=wrong-password

connectionUrl=jdbc:mysql://teamcity-test.cmdwb2jmpqi4.eu-west-1.rds.amazonaws.com/teamcitydb

1. Place the required database drivers into the lib/jdbc subdirectory of the newly created TeamCity data directory. (You can obtain the *mysql-connector-java-bin.jar* file from the /data/teamcity\_server/datadir/lib/jdbc directory on the old TeamCity server.
2. Use the maintainDB utility located in the <TeamCity Home>/bin directory to run the restore command:

maintainDB.sh restore -A <path-to-data-directory> -F <path-to-TeamCity-backup-file> -T <config/database.properties>

1. Once the process completes successfully, copy over <TeamCity Data Directory>/system/artifacts from the old directory.

**Method 2: TeamCity Admin UI (Preferred)**

1. On the *TeamCity First Start* step of the browser dialog, enter the path to the Data Directory (which is set in the TeamCity server manifest) and click **Restore from backup**.
2. Upload a zip file with the backed up data.
3. Choose the target database. If you are using an external database (like in our case), configure its address and credentials.
4. Proceed with the restoration.

**Backing up Build Agent's Data (if required)**

To backup build agent's data:

1. Back up the <Agent Home Directory>/conf/buildAgent.properties file.
2. If you need build agent log files, back up the <Agent Home Directory>/logs directory.