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To change platforms or move from a trial instance to a production instance, you can export migration data from a GitHub Enterprise Server instance by preparing the instance, locking the repositories, and generating a migration archive.

Preparing the GitHub Enterprise Server source instance *₽*

- 1 Verify that you are a site administrator on the GitHub Enterprise Server source. The best way to do this is to verify that you can <u>SSH into the instance</u>.
- 2 <u>Generate an access token</u> with the repo and admin:org scopes on the GitHub Enterprise Server source instance.
- 3 To minimize downtime, make a list of repositories you want to export from the source instance. You can add multiple repositories to an export at once using a text file that lists the URL of each repository on a separate line.

Exporting the GitHub Enterprise Server source repositories \mathscr{O}

Note: Locking a repository prevents all write access to the repository. You cannot associate new teams or collaborators with a locked repository.

If you're performing a trial run, you do not need to lock the repository. When you migrate data from a repository that's in use, GitHub strongly recommends locking the repository. For more information, see "About ghe-migrator."

1 SSH into GitHub.com. If your instance comprises multiple nodes, for example if high availability or geo-replication are configured, SSH into the primary node. If you use a cluster, you can SSH into any node. For more information about SSH access, see "Accessing the administrative shell (SSH)."

ssh -p 122 admin@HOSTNAME

2 To prepare a repository for export, use the ghe-migrator add command with the repository's URL:

• If you're locking the repository, append the command with --lock . If you're performing a trial run, --lock is not needed.

```
ghe-migrator add https://HOSTNAME/USERNAME/REPO-NAME --lock
```

- You can exclude file attachments by appending --exclude_attachments to the command. File attachments can be large and may needlessly bloat your final migration archive.
- To prepare multiple repositories at once for export, create a text file listing each repository URL on a separate line, and run the ghe-migrator add command with the -i flag and the path to your text file.

```
ghe-migrator add -i PATH/TO/YOUR/REPOSITORY_URL.txt
```

3 When prompted, enter your GitHub Enterprise Server username:

```
Enter username authorized for migration: admin
```

4 When prompted for a personal access token, enter the access token you created in "Preparing the GitHub Enterprise Server source instance":

```
Enter personal access token: *********
```

When ghe-migrator add has finished it will print the unique "Migration GUID" that it generated to identify this export as well as a list of the resources that were added to the export. You will use the Migration GUID that it generated in subsequent ghe-migrator add and ghe-migrator export steps to tell ghe-migrator to continue operating on the same export.

```
> 101 models added to export
> Migration GUID: EXAMPLE-MIGRATION-GUID
> Number of records in this migration:
> users
           | 5
> organizations
                        | 1
> repositories
                        | 1
                         | 3
> teams
> realis
> protected_branches
                        | 1
> pull_request_reviews
                        | 1
> milestones
> issues
> pull_requests
> pull_request_review_comments | 4
> commit_comments | 2
> issue_comments
                        | 10
> issue_events
                        | 63
                         | 3
> releases
> attachments
                         | 4
                        | 2
> projects
```

Each time you add a new repository with an existing Migration GUID it will update the existing export. If you run <code>ghe-migrator</code> add again without a Migration GUID it will start a new export and generate a new Migration GUID. **Do not re-use the Migration GUID generated during an export when you start preparing your migration for import**.

To add more repositories to the same export, use the <code>ghe-migrator</code> add command with the <code>-g</code> flag. You'll pass in the new repository URL and the Migration GUID from Step 5:

 $\label{lem:ghe-migrator} $$ghe-migrator add $$https://HOSTNAME/USERNAME/OTHER-REPO-NAME -g $$MIGRATION-GUID --lock$

When you've finished adding repositories, generate the migration archive using the ghe-migrator export command with the -g flag and the Migration GUID from Step 5:

```
$ ghe-migrator export -g MIGRATION-GUID
> Archive saved to: /data/github/current/tmp/MIGRATION-GUID.tar.gz
```

- To specify where migration files should be staged append the command with -staging-path=/full/staging/path. Defaults to /data/user/tmp.
- 8 Close the connection to GitHub.com:

```
$ exit
```

- > logout
- > Connection to HOSTNAME closed.
- 9 Copy the migration archive to your computer using the <a>scp command. The archive file will be named with the Migration GUID:

```
\label{lem:current-tmp/MIGRATION-GUID.tar.gz} $$ -P 122 admin@HOSTNAME:/data/github/current/tmp/MIGRATION-GUID.tar.gz  $$ \sim Desktop $$
```

To prepare the archived migration data for import into a GitHub Enterprise Server instance, see "Preparing to migrate data to GitHub Enterprise Server".

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