

Backing up and restoring GitHub Enterprise Server with GitHub Actions enabled

Configure GitHub Actions

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To restore a backup of your GitHub Enterprise Server instance when GitHub Actions is enabled, you must configure GitHub Actions before restoring the backup with GitHub Enterprise Server Backup Utilities.

About backups of GitHub Enterprise Server when using GitHub Actions [↗](#)

You can use GitHub Enterprise Server Backup Utilities to back up and restore the data and configuration for your GitHub Enterprise Server instance to a new instance. For more information, see "[Configuring backups on your instance](#)."

However, not all the data for GitHub Actions is included in these backups. GitHub Actions uses external storage to store workflow artifacts and logs. This data is stored on your external provider, such as Azure blob storage, Amazon S3, Google Cloud Storage, or MinIO. As a result, GitHub Enterprise Server backups and GitHub Enterprise Server high availability configurations do not provide protection for the data stored on this external storage, and instead rely on the data protection and replication provided by the external storage provider, such as Azure, Google Cloud, or AWS.

Restoring a backup of GitHub Enterprise Server when GitHub Actions is enabled [↗](#)

To restore a backup of your GitHub Enterprise Server instance with GitHub Actions, you must manually configure network settings and external storage on the destination instance before you restore your backup from GitHub Enterprise Server Backup Utilities.

- 1 Confirm that the source instance is offline.
- 2 Manually configure network settings on the replacement GitHub Enterprise Server instance. Network settings are excluded from the backup snapshot, and are not

overwritten by `ghe-restore`. For more information, see "[Configuring network settings](#)."

- 3 SSH into the destination instance. For more information, see "[Accessing the administrative shell \(SSH\)](#)."

```
Shell
ssh -p 122 admin@HOSTNAME
```

- 4 Configure the destination instance to use the same external storage service for GitHub Actions as the source instance by entering one of the following commands.

- Azure Blob Storage:

```
Shell
ghe-config secrets.actions.storage.blob-provider "azure"
```

- Amazon S3:

```
Shell
ghe-config secrets.actions.storage.blob-provider "s3"
```

- Google Cloud Storage:

```
Shell
ghe-config secrets.actions.storage.blob-provider "gcs"
```

- 5 Configure the external storage connection by entering the following commands, replacing the placeholder values with actual values for your connection.

- Azure Blob Storage:

```
Shell
ghe-config secrets.actions.storage.azure.connection-string "CONNECTION STRING"
```

- Amazon S3:

```
Shell
ghe-config secrets.actions.storage.s3.bucket-name "S3 BUCKET NAME"
ghe-config secrets.actions.storage.s3.service-url "S3 SERVICE URL"
ghe-config secrets.actions.storage.s3.access-key-id "S3 ACCESS KEY ID"
ghe-config secrets.actions.storage.s3.access-secret "S3 ACCESS SECRET"
```

Optionally, to force path-style addressing for S3, also enter the following command.

```
Shell
```

```
ghe-config secrets.actions.storage.s3.force-path-style true
```

- Google Cloud Storage:

Shell



```
ghe-config secrets.actions.storage.gcs.service-url "SERVICE URL"
ghe-config secrets.actions.storage.gcs.bucket-name "BUCKET NAME"
ghe-config secrets.actions.storage.gcs.access-key-id "HMAC ACCESS ID"
ghe-config secrets.actions.storage.gcs.access-secret "HMAC SECRET"
```

- 6 To prepare to enable GitHub Actions on the destination instance, enter the following command.

Shell



```
ghe-config app.actions.enabled true
```

- 7 To apply the configuration and enable GitHub Actions to connect to your external storage provider, enter the following command.

Shell



```
ghe-config-apply
```

- 8 After GitHub Actions is configured and enabled, to restore the rest of the data from the backup, use the `ghe-restore` command. For more information, see "[Configuring backups on your instance](#)."
- 9 Re-register your self-hosted runners on the destination instance. For more information, see "[Adding self-hosted runners](#)."

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