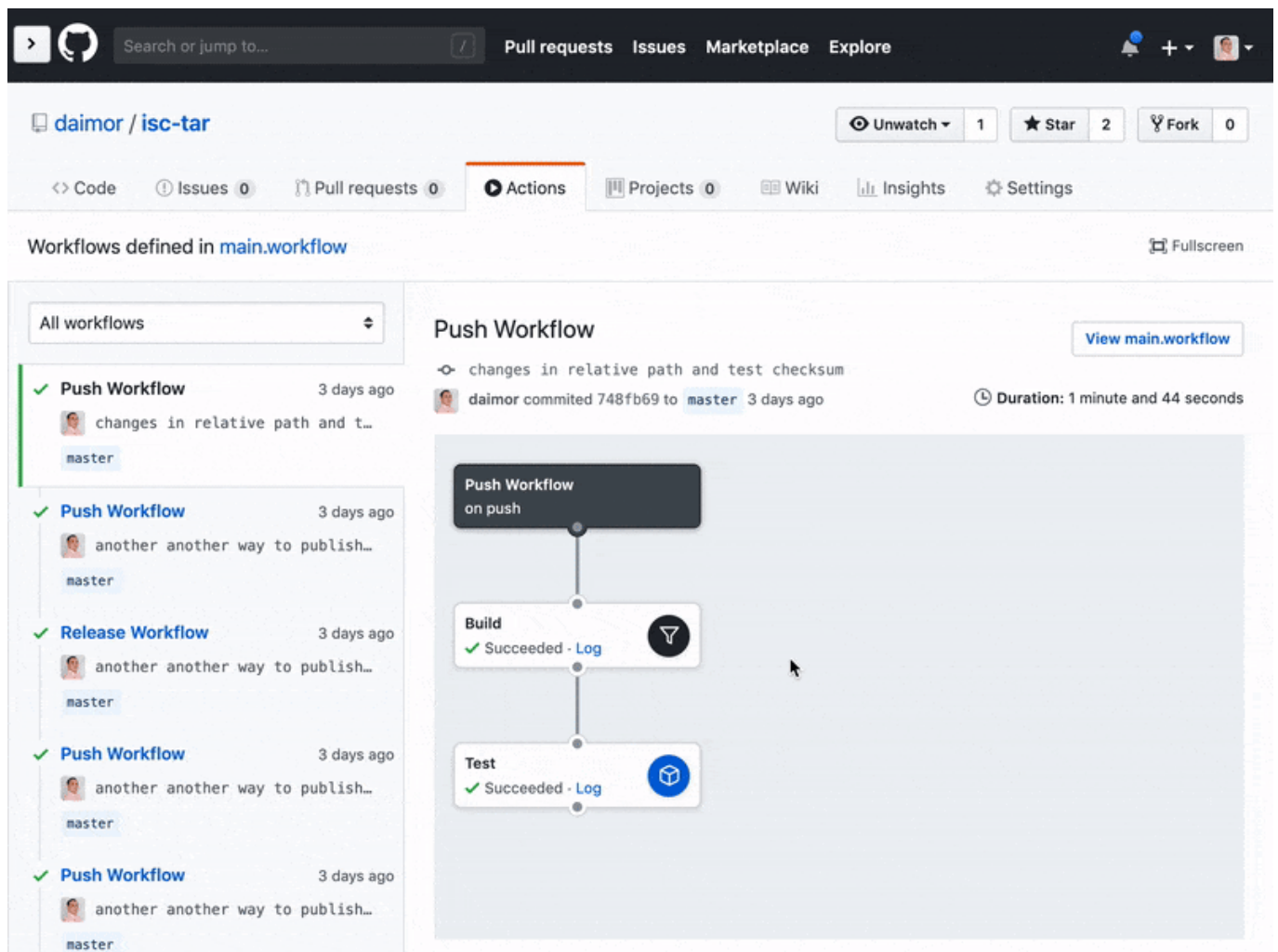



```
runs = "make"
args = "build"
env = {
  IMAGE = "daimor/isc-tar"
}
}

action "Test" {
  needs = ["Build"]
  uses = "docker://daimor/isc-tar"
  runs = "/tests_entrypoint.sh"
}
```

According to the script, I have the workflow which will be activated by push event, with the final action Test, which in meanwhile depends on action Build. Action Build as you may notice, just runs command make with argument build, and predefined IMAGE variable. This action will build docker image tagged as daimor/isc-tar. And after that, we can use this image as an Action with just different entrypoint. GitHub Actions may use any docker image to run action, when it runs it, it mounts your repository to inside the container and defines this mount point as a workdir.

And how this workflow will look in GitHub UI



The screenshot shows the GitHub Actions interface for the repository 'daimor / isc-tar'. The 'Actions' tab is selected, displaying a list of workflows defined in 'main.workflow'. The 'Push Workflow' is highlighted, showing a recent run by 'daimor' that succeeded. The workflow diagram shows three steps: 'Push Workflow on push', 'Build' (Succeeded), and 'Test' (Succeeded). The 'Build' step is highlighted, showing its duration of 1 minute and 44 seconds.

Next, I needed to establish the process of publishing project 's new version releases for public access. I added the new workflow to the same main.workflow file with action Release depended on Artifacts which just does the same release command as " make " but directly with a docker image.

```
workflow "Release Workflow" {
```

```
on = "release"
resolves = ["Release"]
}

action "Artifacts" {
  needs = ["Build"]
  uses = "docker://daimor/isc-tar"
  runs = "/build_artifacts.sh"
}

action "Release" {
  needs = ["Artifacts"]
  uses = "docker://tsub/ghr"
  secrets = ["GITHUB_TOKEN"]
  runs = "/bin/ash"
  args = ["-c", "ghr -u ${GITHUB_REPOSITORY%/*} -r ${GITHUB_REPOSITORY#*/} ${GITHUB_REPOSITORY#*/} out"]
}
```

To implement “ Release ” action I found the image on docker hub which helps publishing GitHub releases. BTW it is so cool when you can find any public docker image which does you the job, and then you can use it as an action. But later I found a better solution and did it in this way. Which looks much simpler.

```
action "Release" {
  needs = ["Artifacts"]
  uses = "JasonEtco/upload-to-release@master"
  secrets = ["GITHUB_TOKEN"]
  args = "out/zUtils.FileBinaryTar.xml"
}
```

The screenshot shows the GitHub repository page for `daimor/isc-tar`. The `Actions` tab is selected, displaying the `Release Workflow` defined in `main.workflow`. The workflow diagram shows a sequence of steps: `Release Workflow on release`, `Build` (Succeeded), `Artifacts` (Succeeded), and `Release` (Succeeded). The duration of the workflow is 1 minute and 55 seconds. A list of recent runs is shown on the left, with the most recent run completed 4 minutes ago.

Once I have the configured “ Release ” workflow section now I only have to draft a new release, and GitHub Actions will build it and attach there.

You can find all of these sources in my [repository](#). Unfortunately, looks like this [actions](#) tab available only for when you signed for the beta.

Behind the scene of isc-tar project and story about Continuous Integration using GitHub Actions
Published on InterSystems Developer Community (<https://community.intersystems.com>)

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Source

URL:<https://community.intersystems.com/post/behind-scene-isc-tar-project-and-story-about-continuous-integration-using-github-actions>