



# Extending GitHub for CI/CD Workflows

# Webhooks

Polling vs. Events

## Events

```
{
  "ref": "refs/heads/changes",
  "before": "9049f1265b7d61be4a8904a9a27120d2064dab3b",
  "after": "0d1a26e67d8f5eaf1f6ba5c57fc3c7d91ac0fd1c",
  "created": false,
  "deleted": false,
  "forced": false,
  "base_ref": null,
  "compare": "https://github.com/baxterthehacker/public-repo/compare/9049f1265b7d...0d1a26e67c",
  "commits": ...
}
```

# Authentication

## Three Schemes

## OAuth

```
config.omniauth :github, 'CLIENT_ID', 'APP_SECRET', {  
  :scope => 'user:email, repo, gist, public_repo',  
  :client_options => {  
    :site => 'https://github.YOURDOMAIN.com/api/v3',  
    :authorize_url => 'https://github.YOURDOMAIN.com/login/oauth/authorize',  
    :token_url => 'https://github.YOURDOMAIN.com/login/oauth/access_token',  
  }  
}
```

## GitHub Token

```
require 'octokit.rb'
```

```
begin
```

```
  ACCESS_TOKEN = ENV.fetch("GITHUB_TOKEN")
```

```
  API_ENDPOINT = ENV.fetch("GITHUB_API_ENDPOINT")
```

## Username/Password

```
require 'octokit.rb'
```

```
begin
```

```
  # Provide authentication credentials
```

```
  client = Octokit::Client.new(:login => 'defunkt', :password => 'c0d3b4ssssss!')
```

```
  # Fetch the current user
```

```
  client.user
```

# API

## Developing Add-ons



# Statuses and Deployments

## Status

```
{  
  "state": "success",  
  "target_url": "https://example.com/build/status",  
  "description": "The build succeeded!",  
  "context": "continuous-integration/jenkins"  
}
```

## Deployments

```
{  
  "ref": "topic-branch",  
  "payload": "{\"user\":\"atmos\",\"room_id\":123456}",  
  "description": "Deploying my sweet branch"  
}
```



Questions?