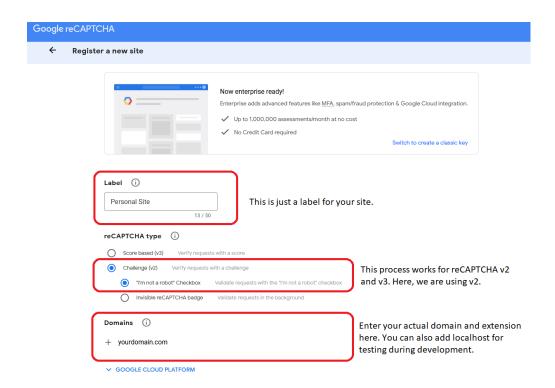
Adding Google reCAPTCHA to Your Contact Form

1. Open the NuGet Package Manager console and enter the following commandlet:

Install-Package PaulMiami.AspNetCore.Mvc.Recaptcha



- 2. Open a web browser and go to: https://www.google.com/recaptcha/admin/create
 - You will need to register a Google account (or sign in to an existing one)
- 3. Enter a site label, select a reCAPTCHA type, and enter your site domain & extension.



4. Note the site key and secret key that are created for your site.

| reCAPTCHA type: v2 Checkbox |
|--|
| reCAPTCHA keys ^ |
| Use this site key in the HTML code your site serves to users. |
| ○ COPY SITE KEY |
| Use this secret key for communication between your site and reCAPTCHA. See server side integration in the secret key for communication between your site and reCAPTCHA. |
| ← COPY SECRET KEY |

5. Open appsettings.json and add a reCAPTCHA section with your keys.

```
"Credentials": {
    "Email": {
        "Client": "mail.loadngodumpsters.com",
        "User": "no-reply@loadngodumpsters.com",
        "Password": "M@a5KnkUqL",
        "Recipient": "loadngodumpsters@gmail.com"
        },
        "reCAPTCHA": {
        "SiteKey": "
        "SecretKey": "
        "
},
```

6. Open Program.cs and add the following using statement:

```
using PaulMiami.AspNetCore.Mvc.Recaptcha;
```

Next, register and configure the reCAPTCHA service:

```
builder.Services.AddRecaptcha(new RecaptchaOptions {
   SiteKey = builder.Configuration.GetValue<string>("Credentials:reCAPTCHA:SiteKey"),
   SecretKey = builder.Configuration.GetValue<string>("Credentials:reCAPTCHA:SecretKey"),
});
```

```
using Microsoft.AspNetCore.Identity;
       using PaulMiami.AspNetCore.Mvc.Recaptcha;
        var builder = WebApplication.CreateBuilder(args);
       // Add services to the container.
var connectionString = builder.Configuration.GetConnectionString("DefaultConnection");
builder.Services.AddDbContext<ApplicationDbContext>(options =>
           options.UseSqlServer(connectionString));
        builder.Services.AddDbContext<db_a8acf9_lngContext>(options =>
            options.UseSqlServer(connectionString));
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       builder.Services.AddDatabaseDeveloperPageExceptionFilter();
       builder.Services.AddDefaultIdentity<IdentityUser>(options => options.SignIn.RequireConfirmedAccount = true)
            .AddRoles<IdentityRole>()
             .AddRoleManager<RoleManager<IdentityRole>>()
            .AddEntityFrameworkStores<ApplicationDbContext>();
        builder.Services.AddControllersWithViews();
      builder.Services.AddRecaptcha(new RecaptchaOptions
            SiteKey = builder.Configuration.GetValue<string>("Credentials:reCAPTCHA:SiteKey"),
            SecretKey = builder.Configuration.GetValue<string>("Credentials:reCAPTCHA:SecretKey")
        var app = builder.Build();
```

7. In your UI project, expand the Views folder, open _ViewImports, and add the following line to import the NuGet package's tag helpers:

@addTagHelper *, PaulMiami.AspNetCore.Mvc.Recaptcha

8. Open your Contact View and navigate to the <form>. Place the following tag helper where you would like the reCAPTCHA widget to appear:

```
<recaptcha />
```

*Note: The align="center" in the screenshot below is optional.

9. At the bottom of the Contact View, place the following tag helper in your Scripts section:

<recaptcha-script />

```
@section Scripts {

@{
    await Html.RenderPartialAsync("_ValidationScriptsPartial");
}

<!-- Recaptcha Script -->
    <recaptcha-script />
```

10. Navigate to the Controller for your Contact Actions and add the following using statement:

using PaulMiami.AspNetCore.Mvc.Recaptcha;

11. Locate your Contact POST Action and add the following annotation:

[ValidateRecaptcha]

12. (OPTIONAL) In your Contact POST Action, you can store an error message in the ViewBag and pass it to the View in the event the user does not complete the reCAPTCHA.

```
| Section | Sect
```

13. (OPTIONAL) If you completed the step above, add conditional logic to the Contact View to display the error message stored in the ViewBag.