How to cache static files in ASP, NET Core?

Asked 1 year, 8 months ago Active 3 months ago Viewed 6k times



I can't seem to enable caching of static files in ASP.NET Core 2.2. I have the following in my

Configure:





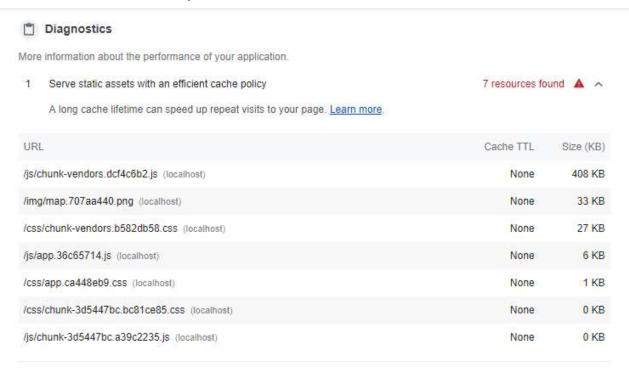


```
public void Configure(IApplicationBuilder app, IHostingEnvironment env) {
  if (env.IsDevelopment()) {
    app.UseDeveloperExceptionPage();
    app.UseCors(...);
  }
  else {
    app.UseHsts();
  app.UseHttpsRedirection();
  app.UseAuthentication();
  app.UseSignalR(routes => { routes.MapHub<NotifyHub>("/..."); });
  app.UseResponseCompression();
  app.UseStaticFiles();
  app.UseSpaStaticFiles(new StaticFileOptions() {
    OnPrepareResponse = (ctx) => {
      ctx.Context.Response.Headers[HeaderNames.CacheControl] = "public, max-age=31557600"; //
cache for 1 year
    }
  });
  app.UseMvc();
  app.UseSpa(spa => {
    spa.Options.SourcePath = "ClientApp";
    if (env.IsDevelopment()) {
      spa.UseVueCli(npmScript: "serve", port: 8080);
    }
 });
}
```

When I try and Audit the production site on HTTPS using chrome I keep getting "Serve static assets with an efficient cache policy":

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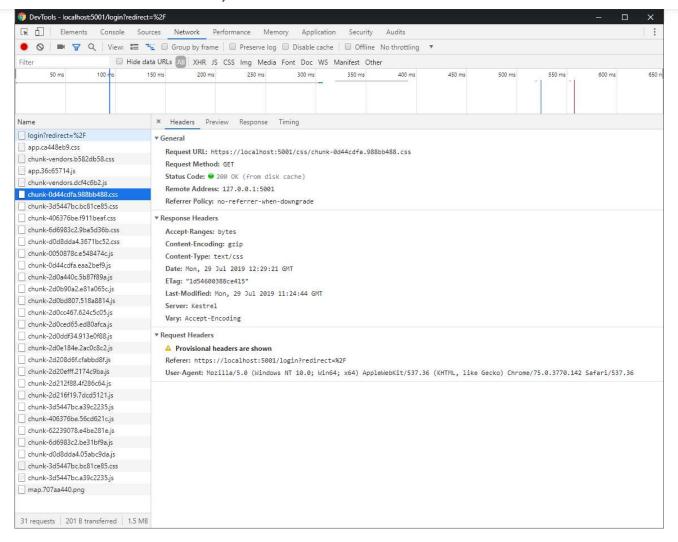




In the network tab there is no mention of caching in the headers, when I press F5 it seems everything is served from disk cache. But, how can I be sure my caching setting is working if the audit is showing its not?

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vue.js asp.net-core caching static-files

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asked Jul 29 '19 at 12:38



2 Answers





I do not know what **UseSpaStaticFiles** is but you can add cache options in **UseStaticFiles**. You have missed to set an **Expires** header.

8



// Use static files
app.UseStaticFiles(new StaticFileOptions {
 OnPrepareResponse = ctx =>
 {
 // Cache static files for 30 days

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});

}

Beware that you also need a way to invalidate cache when you make changes to static files.

I have written a blog post about this: Minify and cache static files in ASP.NET Core

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```
edited Jul 7 '20 at 14:38 bside 619 1 7 14
```

answered Jul 29 '19 at 12:53



Hi FS. Question; for cache invalidation, why did you decide to not use the MVC 'asp-append-version' tag. I.e. --> <script asp-append-version="true" src="..."></script> - TheLegendaryCopyCoder Jul 9 '20 at 14:59

Hi, I want to use pure HTML and pure JavaScript as much as possible. - Fredrik Stigsson Jul 12 '20 at 9:11



5

This is working in ASP.NET Core 2.2 to 3.1:

I know this is a bit similar to Fredrik's answer but you don't have to type literal strings in order to get the cache control header



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edited Jan 12 at 18:43

JHBonarius
6,582 3 12 28

answered Mar 13 '20 at 18:36



1,851 1 11 20

you are missing Expires header. - Ali Jul 8 '20 at 7:29

@Ali If a response contains both the Expires header and the max-age directive, max-age takes precedence. Reference: 13.2.4 Expiration Calculations - w3.org/Protocols/rfc2616/rfc2616-sec13.html The max-age directive takes priority over Expires, so if max-age is present in a response, the calculation is simply: – webStuff Nov 6 '20 at 1:18 /

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