



黑客派

适用于 Gin 和 net/http 的 gzip 中间件，基于 Content-Type、Content-Length、扩展名等要素自动判断是否启用压缩

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原文链接: <https://hacpai.com/article/1575974297197>

来源网站: [黑客派](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

```
<h2 id="gzip中间件">gzip 中间件</h2>
<script async src="https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js"></scr
pt>
<!-- 黑客派PC帖子内嵌-展示 -->
<ins class="adsbygoogle" style="display:block" data-ad-client="ca-pub-5357405790190342"
data-ad-slot="8316640078" data-ad-format="auto" data-full-width-responsive="true"></in
>
<script>
  (adsbygoogle = window.adsbygoogle || []).push({});
</script>
<h2 id="项目地址-https---github-com-nanmu42-gzip">项目地址: <a href="https://link.hacpai
com/forward?goto=https%3A%2F%2Fgithub.com%2Fnanmu42%2Fgzip" target="_blank" rel=
nofollow ugc">https://github.com/nanmu42/gzip</a></h2>
<p>适用于 <a href="https://link.hacpai.com/forward?goto=https%3A%2F%2Fgithub.com%2
gin-gonic%2Fgin" target="_blank" rel="nofollow ugc">Gin</a> 和 <a href="https://link.hacp
i.com/forward?goto=https%3A%2F%2Fgolang.org%2Fpkg%2Fnet%2Fhttp%2F" target="_bla
k" rel="nofollow ugc">net/http</a> 的 gzip 中间件。基于 <code>Content-Type</code>、<c
ode>Content-Length</code>、扩展名等要素自动判断是否启用压缩。</p>
<h2 id="使用示例">使用示例</h2>
<p><a href="https://link.hacpai.com/forward?goto=https%3A%2F%2Fgodoc.org%2Fgithub.
om%2Fnanmu42%2Fgzip" target="_blank" rel="nofollow ugc"></a></p>
<h2 id="Gin">Gin</h2>
<pre><code class="language-go highlight-chroma"><span class="highlight-kn">import</s
an> <span class="highlight-nx">github</span><span class="highlight-p">.</span><span c
ass="highlight-nx">com</span><span class="highlight-o">/</span><span class="highlight
nx">nanmu42</span><span class="highlight-o">/</span><span class="highlight-nx">gzi
</span>
```

```
<span class="highlight-kd">func</span> <span class="highlight-nf">main</span><span cl
ss="highlight-p">()</span> <span class="highlight-p">{</span>
<span class="highlight-nx">g</span> <span class="highlight-o">:=</span> <span class="h
ghlight-nx">gin</span><span class="highlight-p"> .</span><span class="highlight
nf">Default</span><span class="highlight-p"> ()</span>
</span><span class="highlight-c1"></span>
<span class="highlight-nx">g</span><span class="highlight-p"> .</span><span class="span cl
ass="highlight-nf">Use</span><span class="highlight-p"> (</span><span class="highl
ght-nx">gzip</span><span class="highlight-p"> .</span><span class="highlight-nf"
>DefaultHandler</span><span class="highlight-p"> ().</span><span class="highlig
t-nx">Gin</span><span class="highlight-p"> )</span>
<span class="highlight-p">}</span>
</code></pre>
```

```
<h2 id="net-http">net/http</h2>
<pre><code class="language-go highlight-chroma"><span class="highlight-kn">import</s
an> <span class="highlight-nx">github</span><span class="highlight-p">.</span><span c
ass="highlight-nx">com</span><span class="highlight-o">/</span><span class="highlight
nx">nanmu42</span><span class="highlight-o">/</span><span class="highlight-nx">gzi
```



```
<span class="highlight-kd">func</span> <span class="highlight-nf">main</span> <span class="highlight-p">()</span> <span class="highlight-p">{</span>
```

```
<span class="highlight-nx">mux</span> <span class="highlight-o">:=</span> <span class="highlight-nx">http</span> <span class="highlight-p">.</span> <span class="highlight-nf">NewServeMux</span> <span class="highlight-p">(</span>
```

```
<span class="highlight-nx">mux</span> <span class="highlight-p">.</span> <span class="highlight-nf">HandleFunc</span> <span class="highlight-p">(</span> <span class="highlight-s">"/"</span> <span class="highlight-p">,</span> <span class="highlight-kd">func</span> <span class="highlight-p">(</span> <span class="highlight-nx">w</span> <span class="highlight-nx">http</span> <span class="highlight-p">/span> <span class="highlight-nx">ResponseWriter</span> <span class="highlight-p">,</span> <span class="highlight-nx">r</span> <span class="highlight-o">*</span> <span class="highlight-nx">http</span> <span class="highlight-p">.</span> <span class="highlight-nx">Request</span> <span class="highlight-p">)</span> <span class="highlight-p">{</span>
```

```
<span class="highlight-nf">writeString</span> <span class="highlight-p">(</span> <span class="highlight-nx">w</span> <span class="highlight-p">,</span> <span class="highlight-nx">fmt</span> <span class="highlight-p">.</span> <span class="highlight-nf">Printf</span> <span class="highlight-p">(</span> <span class="highlight-s">"This content is compressed: !%sng!"</span> <span class="highlight-p">,</span> <span class="highlight-nx">strings</span> <span class="highlight-p">.</span> <span class="highlight-nf">Repeat</span> <span class="highlight-p">(</span> <span class="highlight-s">"o"</span> <span class="highlight-p">,</span> <span class="highlight-mi">1000</span> <span class="highlight-p">)))</span>
```

```
<span class="highlight-p">}}</span>
```

```
</span> <span class="highlight-c1"></span> <span class="highlight-nx">log</span> <span class="highlight-p">.</span> <span class="highlight-nf">Println</span> <span class="highlight-p">(</span> <span class="highlight-nx">http</span> <span class="highlight-p">.</span> <span class="highlight-nf">ListenAndServe</span> <span class="highlight-p">(</span> <span class="highlight-nx">fmt</span> <span class="highlight-p">.</span> <span class="highlight-nf">Printf</span> <span class="highlight-p">(</span> <span class="highlight-s">:%d</span> <span class="highlight-p">,</span> <span class="highlight-mi">3001</span> <span class="highlight-p">),</span> <span class="highlight-nx">gzip</span> <span class="highlight-p">.</span> <span class="highlight-nf">DefaultHandler</span> <span class="highlight-p">(</span> <span class="highlight-nf">WrapHandler</span> <span class="highlight-p">(</span> <span class="highlight-nx">mux</span> <span class="highlight-p">)))</span>
```

```
<span class="highlight-p">}</span>
```

```
<span class="highlight-kd">func</span> <span class="highlight-nf">writeString</span> <span class="highlight-p">(</span> <span class="highlight-nx">w</span> <span class="highlight-nx">http</span> <span class="highlight-p">.</span> <span class="highlight-nx">ResponseWriter</span> <span class="highlight-p">,</span> <span class="highlight-nx">payload</span> <span class="highlight-kt">string</span> <span class="highlight-p">)</span> <span class="highlight-p">{</span>
```

```
<span class="highlight-nx">w</span> <span class="highlight-p">.</span> <span class="highlight-p"></span>
```

```

ss="highlight-nf">Header</span> <span class="highlight-p">
    (</span> <span class="highlight-nf">Set</span> <span class="highlight-p">
    (</span> <span class="highlight-nf">"Content-Type"</span> <span class="highlight-p">
    (</span> <span class="highlight-nf">"text/plain; charset=utf8"</span> <span class="highlight-p">
    (</span> <span class="highlight-nf">).</span> <span class="highlight-p">
    (</span> <span class="highlight-nf">io</span> <span class="highlight-p">
    (</span> <span class="highlight-nf">WriteString</span> <span class="highlight-p">
    (</span> <span class="highlight-nf">payload</span> <span class="highlight-p">
    (</span> <span class="highlight-nf">+"\n"</span> <span class="highlight-p">
    (</span> <span class="highlight-nf">}</span> <span class="highlight-p">
</code> </pre>

```

<h2 id="定制">定制 <code>Handler</code> </h2>

<p>在创建 <code>Handler</code> 时，可以定制参数以满足你的需要： </p>

```

<pre> <code class="language-go highlight-chroma"> <span class="highlight-kn">import</span> </s
an> <span class="highlight-nx">github</span> <span class="highlight-p">.</span> <span c
ass="highlight-nx">com</span> <span class="highlight-o">/</span> <span class="highlight
nx">nanmu42</span> <span class="highlight-o">/</span> <span class="highlight-nx">gzi
</span>

```

```

<span class="highlight-nx">handler</span> <span class="highlight-o">:=</span> <span cl
ss="highlight-nx">gzip</span> <span class="highlight-p">
.</span> <span class="highlight-nf">NewHandler</span> <span class="highlight-p">
(</span> <span class="highlight-nx">gzip</span> <span class="highlight-p">
.</span> <span class="highlight-nx">Config</span> <span class="highlight-p">
{</span>

```

 // gzip压缩等级


```

span class="highlight-nx">CompressionLevel</span> <span class="highlight-p">
:</span> <span class="highlight-mi">6</span> <span class="highlight-p">
,</span>

```

 // 使用gzip的最小body体积，单位：byte


```

span class="highlight-nx">MinContentLength</span> <span class="highlight-p">
:</span> <span class="highlight-mi">256</span> <span class="highlight-p">
,</span>

```

 // 请求过滤器基于请求来判断是否对这条请求的返回启用gzip，

 // 过滤器按其定义顺序执行，下同。


```

span class="highlight-nx">RequestFilter</span> <span class="highlight-p">
:</span> <span class="highlight-p"> []</span> <span class="highlight-nx">RequestFilter</span> </s
pan> <span class="highlight-p"> {</span>

```

```

<span class="highlight-nf">NewCommonRequestFilter</span> <span class="highlight-p">
),</span>

```

```

<span class="highlight-nf">DefaultExtensionFilter</span> <span class="highlight-p">
),</span>

```

```

<span class="highlight-p">},</span>

```

```

<span class="highlight-c1">// 返回header过滤器基于返回的header判断是否对这条请求的返回
用gzip
</span> <span class="highlight-c1"></span>
span class="highlight-nx">ResponseHeaderFilter</span> <span class="highlight-p">          :
/> <span class="highlight-p"> []</span> <span class="highlight-nx">          Response
eaderFilter</span> <span class="highlight-p">          {</span>
<span class="highlight-nf">NewSkipCompressedFilter</span> <span class="highlight-p">
),</span>
<span class="highlight-nf">DefaultContentTypeFilter</span> <span class="highlight-p">
),</span>
<span class="highlight-p">},</span>
<span class="highlight-p">})</span>
</code></pre>

```

```

<script async src="https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js"></scr
pt>

```

```

<!-- 黑客派PC帖子内嵌-展示 -->

```

```

<ins class="adsbygoogle" style="display:block" data-ad-client="ca-pub-5357405790190342"
data-ad-slot="8316640078" data-ad-format="auto" data-full-width-responsive="true"></in
>

```

```

<script>
  (adsbygoogle = window.adsbygoogle || []).push({});
</script>

```

<p><code>RequestFilter</code> 和 <code>ResponseHeaderFilter</code> 是 interface.
你可以实现你自己的过滤器。</p>

Handler 的局限性

总是在返回中提供 <code>Content-Type</code>, Handler 不会对未知 <code>Content-T
pe</code> 的返回进行类型猜测;

Handler 会先在返回的 <code>Content-Length</code> 中查询 body 体积, 如果没有就再
看 <code>http.ResponseWriter.Write(data []byte)</code> 在首次调用时的 <code>len(data)</
ode> 作为参考。倘若返回的 <code>Content-Length</code> 不存在, 且 <code>http.Respons
Writer.Write(data []byte)</code> 首次调用时的 <code>len(data)</code> 较小, 这条返回会被
误认为无需压缩。

<p>如果你使用的是 Gin 的 <code>c.JSON()</code> 或 <code>c.PureJSON()</code>, 无需
心上述问题。</p>

<p>如果你直接使用 <code>net/http</code>, 请妥善处理上述问题。</p>