



链滴

基于apache httpclient的http访问工具

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原文链接: <https://ld246.com/article/1451138475907>

来源网站: [链滴](#)

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


```

    if (httpClient != null) {
        return;
    }
    Builder builder = RequestConfig.custom();
    builder.setCookieSpec(CookieSpecs.STANDARD_STRICT);
    builder.setConnectionRequestTimeout(connectionRequestTimeout);
    builder.setConnectTimeout(connectTimeout);
    if (https) {
        builder.setExpectContinueEnabled(true);
        Collection<String> targetPreferredAuthSchemes = Arrays.asList(AuthSchemes.NTLM, AuthSchemes.DIGEST);
        builder.setTargetPreferredAuthSchemes(targetPreferredAuthSchemes);
        Collection<String> proxyPreferredAuthSchemes = Arrays.asList(AuthSchemes.BASIC);
        builder.setProxyPreferredAuthSchemes(proxyPreferredAuthSchemes);
    }
    RequestConfig config = builder.build();
    HttpClientBuilder httpClientBuilder = HttpClients.custom();
    httpClientBuilder.setDefaultRequestConfig(config);
    if (https) {
        RegistryBuilder<ConnectionFactory> registryBuilder = RegistryBuilder.create();
        registryBuilder.register("http", PlainConnectionSocketFactory.INSTANCE);
        TrustManager trustManager = new Customized509TrustManager();
        SSLContext context = SSLContext.getInstance("TLS");
        context.init(null, new TrustManager[] { trustManager }, null);
        ConnectionSocketFactory connectionSocketFactory = new SSLConnectionSocketFactory(context, NoopHostnameVerifier.INSTANCE);
        registryBuilder.register("https", connectionSocketFactory);
    } catch (Exception e) {
        LogX.getLogX(getClass()).error("register connectionSocketFactory error", e);
    }
    Registry<ConnectionFactory> registry = registryBuilder.build();
    PoolingHttpClientConnectionManager connManager = new PoolingHttpClientConnectionManager(registry);
    connManager.setMaxTotal(maxTotal);
    connManager.setDefaultMaxPerRoute(defaultMaxPerRoute);
    httpClientBuilder.setConnectionManager(connManager);

```



```

} catch (InterruptedException e) {
    LogX.getLogX(getClass()).error("sleep error", e);
}

if (request instanceof HttpRequestBase) {
    HttpRequestBase httpRequestBase = (HttpRequestBase) request;
    httpRequestBase.releaseConnection();
    IoUtil.closeHttpResponse(response);
    LogX.getLogX(getClass()).info(String.format("autoClose request[%s] and reponse[%s]", request, response));
}

executorService.execute(runnable);

private HttpResponse doRequest(HttpClient httpClient,
    HttpUriRequest httpRequest) {
    synchronized (httpClient) {
        try {
            HttpResponse response = httpClient.execute(httpRequest);
            autoClose(httpRequest, response);
            return response;
        } catch (Exception e) {
            LogX.getLogX(getClass()).error("execute error", e);
        }
        return null;
    }
}

public void closeHttpClient() {
    IoUtil.closeHttpClient(httpClient);
}

private static List<NameValuePair> toValues(Map<String, String> paramMap) {
    if (paramMap == null) {
        return null;
    }
    List<NameValuePair> values = new ArrayList<NameValuePair>(paramMap.size());
    Set<String> keys = paramMap.keySet();
    for (String key : keys) {
        NameValuePair pair = new BasicNameValuePair(key, paramMap.get(key));
        values.add(pair);
    }
    return values;
}

private String getContent(HttpResponse response) {
    if (response == null) {
        return null;
    }
    HttpEntity httpEntity = response.getEntity();
    if (httpEntity == null) {
        return null;
    }
    String content = null;
    try {
        Charset charset = ContentType.getDefault(httpEntity).getCharset();
        content = EntityUtils.toString(httpEntity, charset);
    } catch (IOException e) {
        LogX.getLogX(getClass()).error("getContent error", e);
    }
}

```



```

    } finally {
        loUtil.closeHttpResponse(response);
    }
    return content;
}

public int getConnectionRequestTimeout() {
    return connectionRequestTimeout;
}

public void setConnectionRequestTimeout(int connectionRequestTimeout) {
    this.connectionRequestTimeout = connectionRequestTimeout;
}

public int getConnectTimeout() {
    return connectTimeout;
}

public void setConnectTimeout(int connectTimeout) {
    this.connectTimeout = connectTimeout;
}

public int getDefaultMaxPerRoute() {
    return defaultMaxPerRoute;
}

public void setDefaultMaxPerRoute(int defaultMaxPerRoute) {
    this.defaultMaxPerRoute = defaultMaxPerRoute;
}

public int getMaxTotal() {
    return maxTotal;
}

public void setMaxTotal(int maxTotal) {
    this.maxTotal = maxTotal;
}

public long getAutoCloseTimeout() {
    return autoCloseTimeout;
}

public void setAutoCloseTimeout(long autoCloseTimeout) {
    if (autoCloseTimeout <= 0 || autoCloseTimeout > 5000)
        LogX.getLogX(getClass()).warn(String.format("autoCloseTimeout must be from %s to %s", 0, 5000));
    return;
}

this.autoCloseTimeout = autoCloseTimeout;
}
}

```

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```

import java.security.cert.CertificateException;
import java.security.cert.X509Certificate;
import javax.net.ssl.X509TrustManager;
/**
 * @author niuhaipeng
 * @date 2015年12月17日
 */
public class CustomizedX509TrustManager implements X509TrustManager {
    @Override
    public void checkClientTrusted(X509Certificate[] arg0, String arg1)
        throws CertificateException {
    }

    @Override
    public void checkServerTrusted(X509Certificate[] arg0, String arg1)
        throws CertificateException {
    }

    @Override
    public X509Certificate[] getAcceptedIssuers()
        return null;
}
}

```

<p>maven配置</p>

```

<dependency>
    <groupId>org.apache.httpcomponent
    </groupId>
    <artifactId>httpclient
    </artifactId>
    <version>4.5.1
    </version>
</dependency>

```

<p>本文代码均可以从github下载, 地址 https://github.com/niuhp/toolbox</p>