

Filter で Basic 認証を実装

[Java]

```
import java.io.BufferedReader;
import java.io.ByteArrayInputStream;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Enumeration;

import javax.mail.internet.MimeUtility;
import javax.servlet.Filter;
import javax.servlet.FilterChain;
import javax.servlet.FilterConfig;
import javax.servlet.ServletException;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class BasicAuthenticationFilter implements Filter {
    /**
     * レalm名
     */
    private final String realmName = "hoge";

    /** @see javax.servlet.Filter#doFilter(javax.servlet.ServletRequest,
     javax.servlet.ServletResponse, javax.servlet.FilterChain) */
    public void doFilter(ServletRequest request,
        ServletResponse response,
        FilterChain filterChain) throws IOException, ServletException {

        ByteArrayInputStream bin = null;
        BufferedReader br = null;
        try {
            HttpServletRequest httpReq = (HttpServletRequest)request;

            String basicAuthData = httpReq.getHeader("authorization");

            // Basic 認証から情報を取得
            String basicAuthBody = basicAuthData.substring(6); // ex 'Basic dG9tY2F0OnRvbWNhdA== '
            bin = new ByteArrayInputStream(basicAuthBody.getBytes());
            br = new BufferedReader(
                new InputStreamReader(MimeUtility.decode(bin, "base64")));

            StringBuilder buf = new StringBuilder();
            String line = null;
            while ((line = br.readLine()) != null) {
                buf.append(line);
            }
            String[] loginInfo = buf.toString().split(":");
            String username = CollectionUtil.safeArrayElement(loginInfo, 0, "");
            String password = CollectionUtil.safeArrayElement(loginInfo, 1, "");

            boolean isAuthorized = /* username password を利用して認証を実施 */

            if (!isAuthorized) {
                // ブラウザに Unauthorized エラー (401) を返す
                HttpServletResponse httpRes = (HttpServletResponse)response;
                httpRes.setHeader("WWW-Authenticate", "Basic realm=" + this.realmName);
                httpRes.setContentType("text/html");
                httpRes.sendError(HttpServletResponse.SC_UNAUTHORIZED); // 401
            } else {
                filterChain.doFilter(request, response);
            }
        } catch (Exception e) {
            throw new ServletException(e);
        } finally {
            try {
                if (bin != null) bin.close();
                if (br != null) br.close();
            } catch (Exception e) {}
        }
    }
}
```