**DevOps Test Assignments**

Pipeline

Please prepare a high-level overview of an ideal, in your opinion, pipeline for the following process:

A user chooses:

* an operating system from a pre-populated list
* version of the piece of software the company develops

and starts the pipeline that creates a VM for the given operating system and:

* configures remote access for the user who executed the pipeline
* installs the software for the given version

Script

Please write a script/an application using programming language of your choice. The script’s requirements:

* Inputs:
  + - Mandatory:
      * URL
      * Output directory path
    - Optional:
      * Username
      * Password
* Outputs:
  + - Files in the output directory the script downloads based on the extraction rule explained below
* The script should use Basic Auth when optional username and password specified
* The script should support redirections
* Extraction rule: only the files specified as a source for <img> HTML tag and having .png (case-insensitive) extension should be downloaded
* Dynamic <img> tags generated by JavaScript can be ignored, i.e. only the original source code can be evaluated
* The script should be “production-ready”, whatever it means for you