

SE 492 – sdmay20-58

K8s Checkmate

Week 6 Report (4/3 – 4/16)

Client: Workiva

Faculty Advisor: Julie Rursch

Team Members:

- Daniel Brink - Delivery Manager
- Jacob Cram - Test Engineer
- Sean Sailer - Software Developer/Tester
- Alexander Stevenson - Project Manager/Team Lead
- John Young - Software Developer/Meeting Facilitator

Past Week Accomplishments

Individual Contributions

Team Member Contribution Weekly

3 Apr - 9 Apr

- Daniel (4 Apr) [4 hours] - Working on Final Report, Final Presentation

10 Apr - 16 Apr

- John and Sean (11 Apr) [8 hours] Worked on the error handling, config handling, outputting to file and terminal, and parsing
- Daniel (12 Apr) [4 hours] - Working on Final Report, Final Presentation, Final Poster
- Jacob (12 Apr) [4 hours] - Working on testing, looked at other team responses for advise
- Alex (14 Apr) [4 hours] - Worked on the refactor a bit
- John (16 Apr) [4 hours] Worked on cleaning up the code to satisfy Workiva's Requirements
- Sean (16 Apr) [4 hours] Worked more on outputting, environment/config setup, parsing, and adding more rules to the policy

Name	Bi-weekly Hours	Total Hours
Alex Stevenson	4	58.5
Daniel Brink	8	52
Jacob Cram	4	41
Sean Sailer	12	51
John Young	12	69

Plans for Coming Week

- Have client test MVP and provide feedback
- Figure out if the values must be saved to `values.yaml` or if they can be defined where they are used in the charts. If the latter is true, we will need to find a way to check all of the possible places they can be
- Find a way to parse the values from any sub-charts
- Figure out how templates play into this. Do we rerun the check on the templates? Do we have a list of allowed templates? How should go about dealing with them in a way that allows maximum flexibility to the end-user?
- Explore how we can utilize templates
- Parse a `policy.yaml` file and store the values
- Write methods to check the values from the policy against the chart
- Alert on any misconfigurations
- Figure out what to put in the policy files
- Figure out where users on the pods are defined

Tasks

- Alex
- John will continue to finalize the code and work on the poster. Also will start preparing for the presentation
- Jacob continue to write tests and make sure we have full testing coverage. Prep for presentation.
- Sean will continue to work on the logic and ensure that the product is tested by the client to ensure satisfaction
- Daniel will continue to stay up-to-date on changes in 492's schedule due to circumstances and keep the team aware of them as well. In addition, will also modify the verification code to work as the rest of the project is produced, and work towards the final presentation and poster.