Towards Optimized Fog Computing Infrastructure

I. **Abstract** ***(to be determined later)***

II. **Introduction**

- A. **Clouding history and the introduction of Fog computing.**
  1. The start of Cloud Computing.
  2. The problems associated with the clouding architecture.
  3. The introduction of Fog computing to resolve those problems.
- B. **Kubernetes**
  1. Kubernetes and Clouds.
  2. Why Kubernetes is not compatible with Fog computing (briefly).
- C. **Organization**
  Explain organization of the report, what is included, and what is not.

III. **Fog computing *State-of-the-art* and advantages over Cloud.**

- A. Why Fog computing exists?
- B. What the problem resolved by Fog computing?
- C. Why Fog is the future? (IOT, end-to-end latency, location awareness).

IV. **Kubernetes and Fog computing.**
(Divided into sections that will be treated separately)

- A. The centralization and the impact on the performance.
- B. end to end latency is ignored.
- C. location awareness.

V. **A location aware service in Kubernetes.**

- A. Formulate specifically the problem of location awareness in the fog context.
- B. How we solve it, and what have been changed in Kubernetes.
- C. A brief explanation of our test-bed.
- D. our result if any.

VI. **Conclusion.** ***(to be determined later)***

VII. **Acknowledgement.**