

Interview Guide for the Paper Titled: Application of Microservices Patterns to Big Data Systems

A. Introduction

Thanks for your participation. We are interviewing you to validate our theories in regards to application of microservices patterns to big data systems. There are no right or wrong answers, and we are really interested in our opinion and experience.

The interview should take approximately one hour depending on the flow of our dialogues. With your permission I will be recording this interview because I don't want to miss any valuable information. This recording will be shared with my research team for further analysis.

All your responses will be confidential, and the results of this interview will be presented without mention of any individual name. Should you wish to not answer any of the questions, you may decline the question or stop the interview at any time.

Are there any questions in regards to what I have just explained ?

Note to the reader/researcher: Please note that this guide aims to only encompass the main themes being discussed with the interviewee and as such does not include the prompts that may have emerged in the process of interview. Some general prompts and close-ended questions are included.

B. Establishing Rapport

Before the interview begins, it would be nice if you could introduce yourself and tell me a bit about your background and your area of interest.

C. Candidates background

- 1) Could you please tell me your job title please ?
- 2) Could you please tell me how many years of professional experience have you got in software engineering or data engineering ?
- 3) Could you please tell me in which level of proficiency do you consider yourself to be ? (answer from 1 to 5, 1 being novice, and 5 being expert)

D. Familiarity with big data systems

- 1) Could you please tell me your experience with big data systems ?
- 2) Could you please tell how many years of experience have you got related to data engineering or big data ?
- 3) Are you familiar with challenges of big data system development ?

E. Familiarity with microservices

- 1) Could you please tell me your experience with microservices architecture ?
- 2) Could you please tell how many years of experience have you got related to microservices architecture ?
- 3) Are you familiar with challenges of microservices architecture ?

F. Microservices patterns for big data systems

- 1) Are you approved of your theories ? (from 1 to 5, 1 disapprove, 5 fully approve)
- 2) Do you think the patterns discussed in our system could actually solve the problems discussed ?
- 3) Do you see any limitations with our models ?
- 4) Have we missed any pattern for any problem ?

G. Closing thoughts

- 1) Have you got any recommendations for our study ?