

Questionnaire – Demographic Questions

1. What is your current role in the company?

Research

2. What kind of tasks do you usually do in your work?

Yeah, I mean to to really abstractly summarize it. It's kind of research in the sense of knowledge and and state-of-the-art transfer I would say from from the scientific field into the actual application in in the target domain

3. Given enough time, can you understand the architecture of an application system that is described using an IaC script of an IaC technology you are familiar with?

I'm not really an expert in all of these technologies but yes, I get the fundamental point and I also I would say I have enough knowledge to interpret

4. For how many years have you worked on tasks associated with IaC tools?

Maybe two or three years

5. How large is the company you currently work for?

> 100000

Questionnaire – Compliance Rule Modeling and Checking

6. How do you check the compliance of the software applications of your company?

there's definitely kind of manual checks and also regarding the overall development methodology, I think they're also built in compliance or quality assurance steps

7. Do you use well-defined models for the compliance rules applicable to the software applications of your company?

Rules or these catalogs of compliance rules are they just in text format or are they modeled in a machine readable way?

You probably yeah, I also can't answer that one. Hmm. Yeah

- a) If so, how do you define them?

8. Do you think having a well-defined and machine-readable format for compliance rules reduces the complexity associated with checking them?

Yes, I think so definitely

9. Do you think having a well-defined and machine-readable format for compliance rules reduces the uncertainty associated with interpreting them?

Yeah, I mean, I would say maybe just from the automation perspective. This is always bringing I mean having something centralized and in an automated fashion is always reducing ambiguity uncertainty and also Yeah, there's different types of interpretation

10. How often do you have to deal with new compliance rules?

Well, I think I would say very often because the scale because of the scale I mean probably no one knows how often exactly about in rough estimation

You think it's it's often in for for for the domain of and the size of your company

11. How much do you agree with the following statement: *using IACMF reduces the effort associated with defining and checking compliance rules?*

But I mean just from what I what I've seen in the video, I would say totally agree

12. How much do you agree with the following statement: *using IACMF reduces the complexity associated with defining and checking compliance rules?*

Yeah Kind of the same thing I also totally agree because I think the as always that the actual game changer in my opinion is that you really fix

13. How much do you agree with the following statement: *using well-defined models for compliance rules reduces the uncertainty associated with interpreting them?*

Maybe it's handable for smaller systems less complex models, but if you reach a certain level of complexity, I think yeah you need you need something some language some model you can rely on

Questionnaire – Architectural Reconstruction

14. How do you reconstruct the architecture of running application instances you need to understand?

I'm using observability mechanisms but this I'm not sure if it's not really the architecture is more like the Yeah, kind of communication architecture of different services how they interact and invoke each other But yeah for for let's say really from a Topology point of view I'm not sure

15. Do you use any (semi-)automated tools for this purpose?

Yeah, I mean in this in this sense, I think this the factor standard open telemetry it's also applied But yeah, also not sure what what else or what co-creativity is used in terms of tools and

16. How much do you agree with the following statement: *using IACMF reduces the effort associated with reconstructing the architecture of running application instances?*

(Interviewer: if you do have the plugins required for like the for communicating with a specific tool my AC tool and then refining the instance model with additional information or if you don't have these plugins and you need to implement them but then you can reuse them So in in in each of these cases)

Yeah, I think so I mean as you said most probably depends on the the efforts spend in integrating new methods for for getting the information to reconstruct the architecture

Questionnaire – Compliance Violation Fixing

17. What do you do if you find out that a running application instance violates a compliance rule?

hat's also something I haven't no idea Yeah, that's fair

Yeah, so I think 18 doesn't make much sense If they are automated or semi automated tools for that

18. Do you use any (semi-)automated tools for this purpose?

20. How much do you agree with the following statement: *using IACMF reduces the effort associated with fixing compliance violations?*

Yeah, I think so I mean again most probably it's this integration effort that has to be spent But I think the actual doing as far as I got it from the video is

Well, there's no effort right so you say if you do have the plug-ins suitable for for

Your use case the effort is like almost no effort

Yeah, yeah, but I would say in general. Yes, definitely reduces the effort

21. How much do you agree with the following statement: *having well defined models for compliance jobs reduces the uncertainty associated with handling detected compliance violations?*

Yeah, that's what we'll say for sure. Yeah

Questionnaire – General Questions

22. How do you evaluate the novelty of the framework?

Yeah, since I'm not an expert in this field. I mean It seemed like It's kind of a new way of combining known things at least from from what what I know let's say

But bringing everything together. I would at least for me it was something new

23. How do you evaluate the extensibility of the framework?

Yeah, that was also my impression. Yeah, I think it's useful and I also like the as you said summarized now this two levels that you have this can have I mean one is in integrating a logic additional logic and form of plugins for at the for the different steps to integrate new IOC technologies and stuff like that and the also the other level that you can introduce parameterizable Plugins so that you say okay This is something I have to do always but it might differ in which context I'm doing I'm checking it for example and therefore I can introduce variables parameters stuff like that

I mean it's more kind of yes, you said customizing or parameterizing the steps

24. Would you use the framework in your work?

Absolutely, I mean the only pitfall is as always you need you you need the information about the system, right and Some kind of having a model and so yeah to work with it and I think that's kind of the The pitfall but if this is there which I definitely think it's it's valuable to have this anyhow

a) If so, in which areas?

25. What is your general impression?

Um, then definitely I think it's it's a good tool.