

Jenkins Deployer

Automation to install / configure Jenkins

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About Me

- Vasudeva Nayak Kukkundoor “Vasu”
- 16+ years of IT Experience, 8 years solely in Cloud/Customer Engagements
- Fluent in German, English (born indian, naturalized german)
- Interests / Expertise in : Multi Cloud, Customer Engagements, Automation, and Teamwork
- 13 years in Germany, with my wife and a son
- Polyglot, Travelling, and Cooking

Objective

“Automate the installation and configuration of the Jenkins continuous integration server.”

Agenda

- Requirements
- Design Considerations
- Source Code Navigation
- Demo
- Results
- Answers
- Q and A

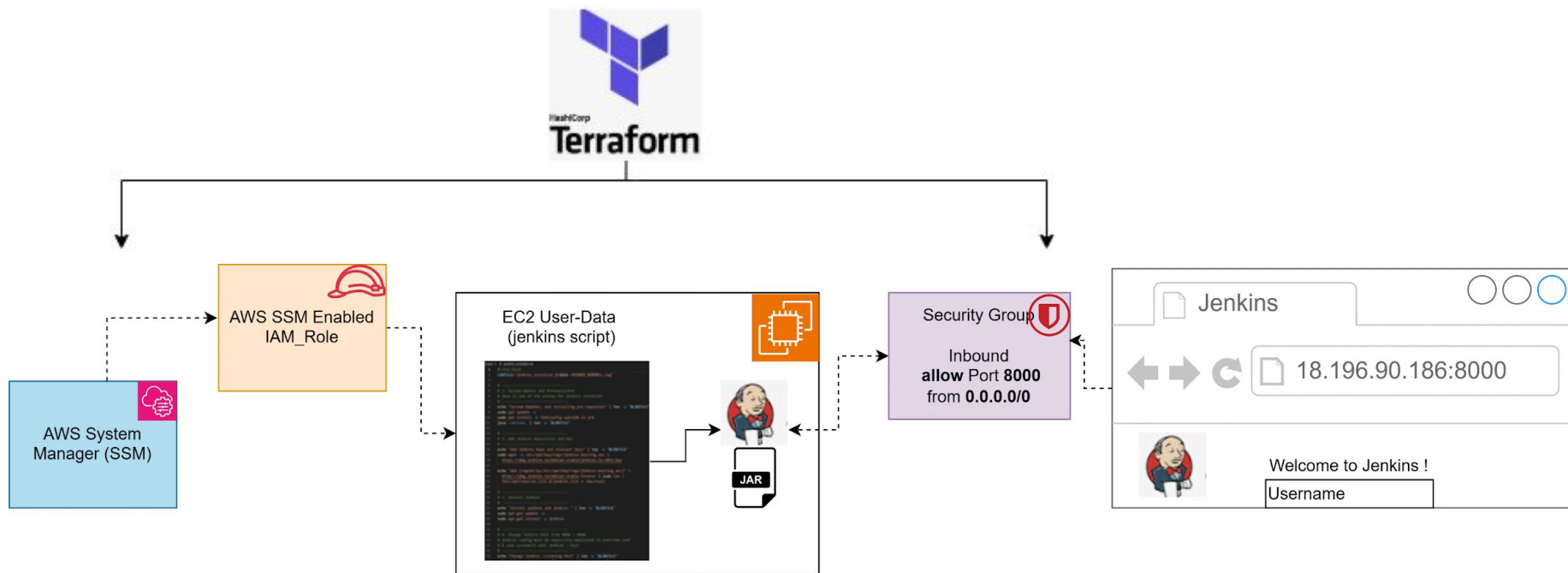
Requirements

- *Solution must run on a clean installation of the chosen operating system without errors.*
- *Jenkins and its prerequisites must be installed without manual intervention*
- *Jenkins must be configured to serve requests over port 8000*
- *Subsequent applications of the solution should not cause failures or repeat redundant configuration tasks*

Design Considerations

- **Approach** - Simple PoC, basic security, fast deployment and install/config feature
- **Infrastructure** - AWS Cloud, EC2 Instance, Ubuntu 24.04 OS, Agent-based AWS System Manager
- **Automation** - Mix of Declarative and Imperative automation style
- **Automation** - Install/configure bash script, EC2 User Data, AWS SSM Runbooks, and Terraform
- **Out of Scope** - Advanced Jenkins, High Availability, Security in Depth, Detection of configuration Drift etc.

Design Considerations - Architecture



Source Code Navigation ([Github Link](#))

Demo

Results ([Github Link](#))

Answers ([Github Link](#))

Q and A

Thank You !