Jenkins Deployer

Automation to install / configure Jenkins

Vasudeva "Vasu" Nayak
Senior Technical Account Manager
Munich, Germany

perforce

Objective

" Automate the installation and configuration of the Jenkins
continuous integration server."

perforce

Agenda

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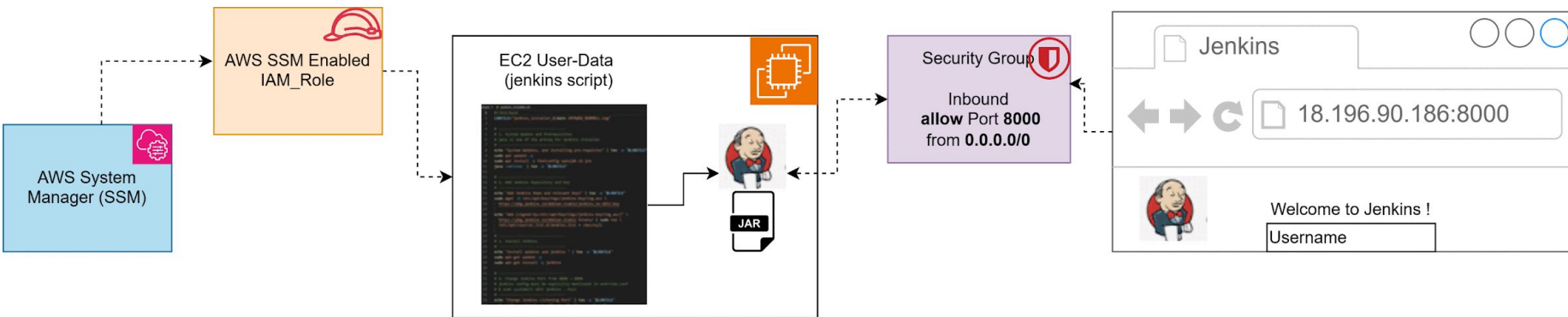- Demo
- Results
- Answers
- Q and A

perforce

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*

perforce

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.

perforce

Design Considerations - Architecture

Source Code Navigation ([Github_Link]())

Demo

Results (Github_Link)

Answers (Github_Link)

Q and A

perforce

Thank You !

perforce