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# Environment Automation Tool

By Team TechnoGeeks

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## Problem Statement

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“Time to Market” is the quintessential factor that drives product development lifecycle. Add to that, monoliths are on their way out and an era of micro-services is being ushered in. All this translates into shorter, focused dev\testing cycles, be it unit, integration or regression. This development style accentuates the need of continuous deployments manifold which if done manually can be mundane, time-consuming and error prone. Enter - Environment Automation tool – a platform that helps to speed up the process of creating reliable, configurable environments for development and testing from bare metal hardware - this tool can create and wind down environment in a single go. This gives organization flexibility to create environment on demand as well as release it when not in use.

## What's this POC About...?

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This POC is a stepping stone to an end goal – it's all about harnessing the power of open source tools and frameworks to effectively address the aforementioned problem and achieve an end-state where organizations have to worry the least about managing their CICD pipelines and environments – be it cloud or in premise. Since environments can be spawned and wound down on a click, it diminishes greatly the need to have personnel manning them. The ultimate goal is to create a product which can be used as a service to manage environments, integrations and deployments for any client regardless of the technology stack involved.

## Benefits

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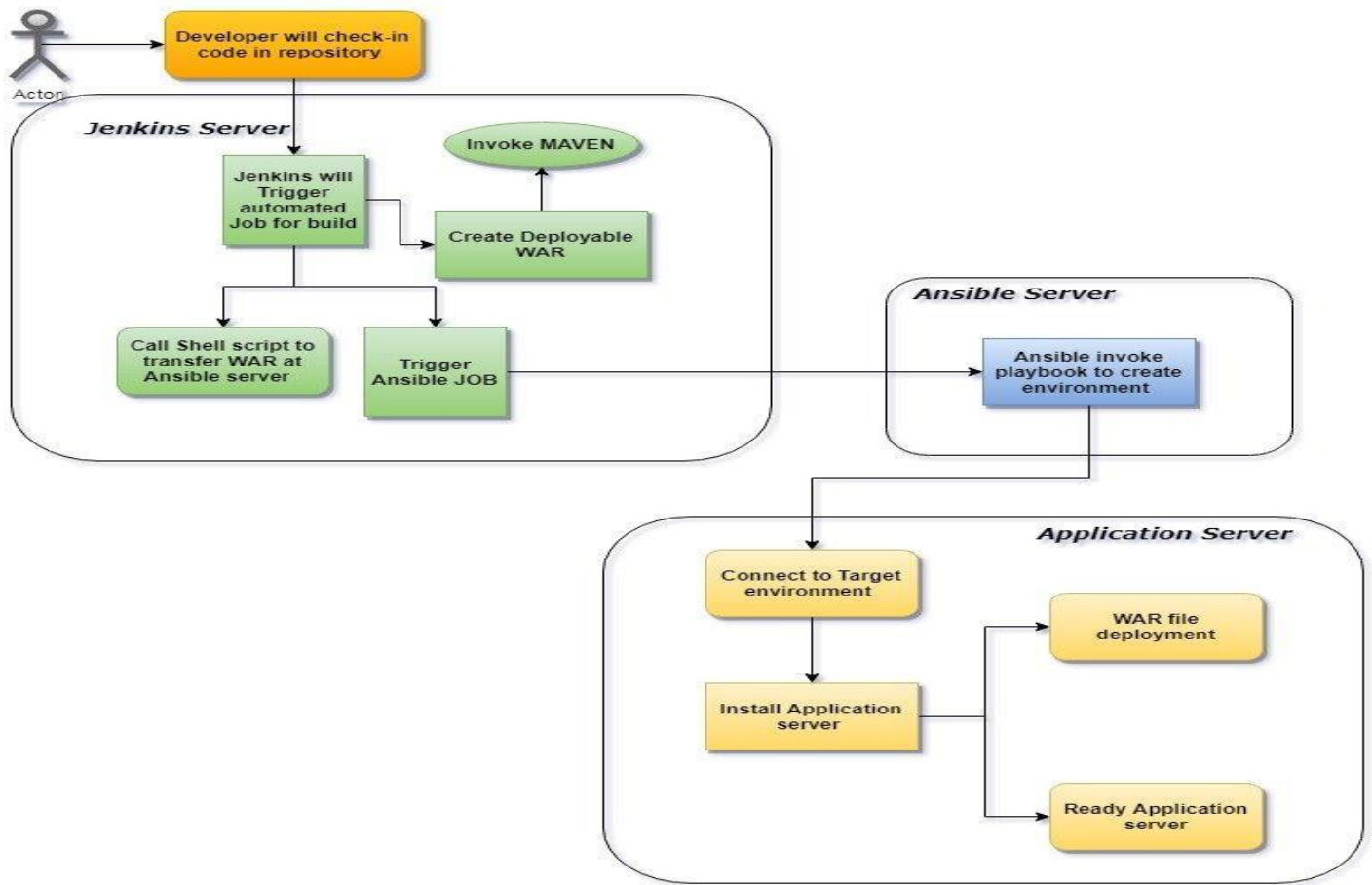
**Speed and agility** – single job can create/free-up multiple environments. Database servers, application servers can be created from scratch in one click.

**Holistic** – orchestrate processes across hybrid environments: legacy, virtualized and cloud.

**More control** – operations visibility and dashboard to reflect the status quo to take informed decisions.

**Open Source Tech stack** – No licensing cost for development and support of the platform

## Visualized Use Case



## Technology Stack

Ansible	Jenkins	Python	YAML script	Shell scripting	Meteor
Maven Java	Tomcat	MySQL	NodeJS	Angular	MongoDB

## Team Members

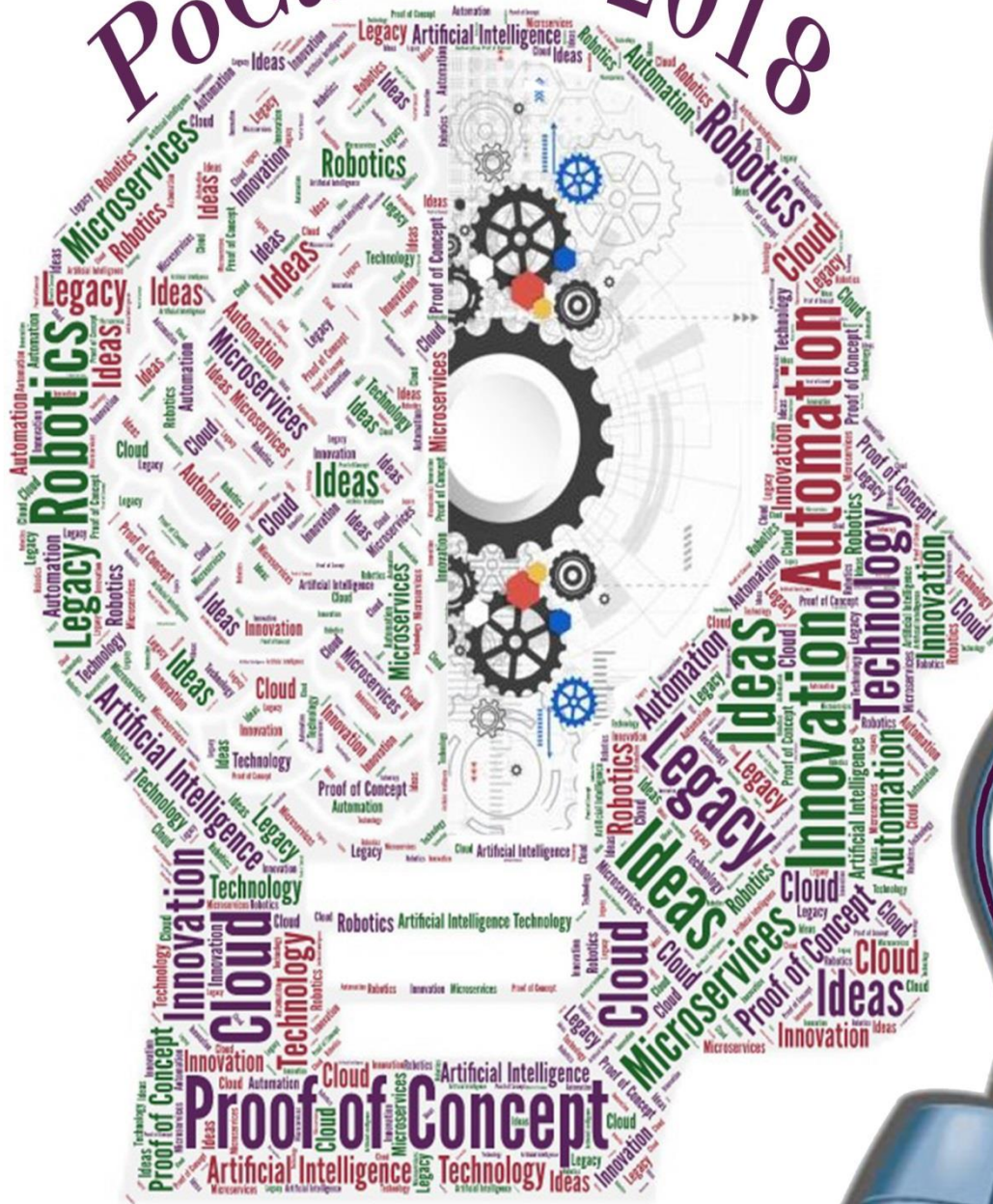
Sarvesh Sinai (Mentor)  
Chetan Choudhary  
Vamsi Gorthi

Sameer Gaikwad  
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# PoCathon 2018



## DSS India

