NBCU (Linear Ad Sales)

Tools Run Book

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| Document Id | NBCU – Tool Run Book | | |
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| Prepared by | Cognizant DevOps Team | | |
| Reviewed by |  | | |

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Document Amendment Record

A – Added, M – Modified, D – Deleted

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Contents

1.0 Introduction 4

1.1 Purpose 4

1.2 Scope 4

1.3 Intended users 4

1.4 Definitions, Abbreviations and Definitions 4

1.5 References 4

2.0 Inventory/Infrastructure 5

2.1 ADSDevOps Infrastructure 5

Current Server & DevOps Tools 5

2.2 Contact Matrix 6

3.0 ADSDevOps Reference Architecture 7

4.0 CICD Architecture, Job Execution Workflow 7

5.0 Tools Administration 8

5.1 Jenkins Master hosted on 100.114.222.29 8

5.2 Artifactory hosted on 100.114.222.28 9

# Introduction

## Purpose

This document mainly serves the tool administration which are part of this Project

## Scope

Refer SOW for the scope of activities available at

## Intended users

## Definitions, Abbreviations and Definitions

|  |  |
| --- | --- |
| **Abbreviations** |  |
| **PR** | Pull Request |
|  |  |
|  |  |
|  |  |

## References

Reference Links to respective tools used and listed further

# Inventory/Infrastructure

This section lists entire inventory of servers, tools used, technology stack in scope etc

## ADSDevOps Infrastructure

## Current Server & DevOps Tools

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tools | Version | Usage | Host Name / IP Address | OS | Dependent Packages installed |
| Jenkins Master | 2.101 | CI/CD | 100.114.222.29 (Master)  100.114.222.26 (Slave) | RHEL 7.4 x86\_64 | jenkins-2.101-1.1.noarch |
| Artifactory | 5.8.3 | Artifact Store | 100.114.222.28 | RHEL 7.4 x86\_64 | Standalone Service based installation |
| JIRA | 7.6.2 | Issue tracker | 100.114.222.27 | RHEL 7.4 x86\_64 | Standalone Service based installation |
| Rundeck | 2.10.6-1 | Deployment | 100.114.222.25 | RHEL 7.4 x86\_64 | rundeck-2.10.6-1.48.GA.noarch  rundeck-config-2.10.6-1.48.GA.noarch  rundeck-repo-4-0.noarch |
| Insights | 1.0 | Reporting Tool | 100.114.222.30 | RHEL 7.4 x86\_64 |  |
|  |  |  |  |  |  |

Tool Deployed Path:

|  |  |  |
| --- | --- | --- |
| Tool | URL | Application Path |
| Jenkins Master | <http://100.114.222.29:8080> | /var/lib/jenkins/ |
| Artifactory | <http://100.114.222.28:8081> | /root/artifactory-oss-5.8.3 |
| JIRA | <http://100.114.222.27:8080> | /root/atlassian-jira-software-7.6.2-standalone |
| Rundeck | <http://100.114.222.25:4440> | /var/rundeck/projects/ |
| Insights | <http://100.114.222.30:8080/app/#!/InSights/home> | /Data |
|  |  |  |

Tool Log Path:

|  |  |  |
| --- | --- | --- |
| Tool | Hostname | Application Log Path |
| Jenkins Master | ushapld00198.tfayd.com | /var/log/jenkins |
| Artifactory | ushapld00196.tfayd.com | /Data/artifactory-oss-5.8.3/logs |
| JIRA | ushapld00195.tfayd.com | /root/atlassian-jira-software-7.6.2-standalone/logs |
| Rundeck | ushapld00193.tfayd.com | /var/log/rundeck |
| Insights | ushapld00197.tfayd.com | /Data |

Tool Backup/Archive Path:

|  |  |  |
| --- | --- | --- |
| Tool | Host | Application BackUp/Archive Path |
| Jenkins Master | ushapld00198.tfayd.com | 100.114.222.24:/Data/Jenkins\_Server\_Backup/ |
| Artifactory | ushapld00196.tfayd.com | 100.114.222.28:/Data/artifactory\_backup |
|  |  |  |

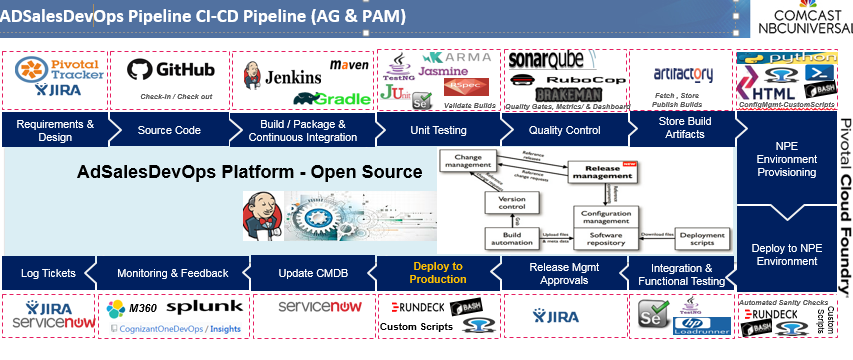
Tools – Application URL’s

|  |  |
| --- | --- |
| **Tool** | **URL** |
| Jenkins | <http://100.114.222.29:8080> |
| Artifactory - jFrog | <http://100.114.222.28:8081/artifactory/webapp/#/home> |
| GitHub - NBCUniversal | <https://github.com/CINBCUniversal> |
| Rundeck | <http://100.114.222.25:4440> |
| JIRA | <http://100.114.222.27:8080> |
| Insights | <http://100.114.222.30:8080/app/#!/InSights/home> |
|  |  |

## Contact Matrix

|  |  |  |  |
| --- | --- | --- | --- |
| ***Contact Type*** | ***DL*** | ***Contact Name*** | ***Comments*** |
| Distribution List | [NBCUDevOpsCognizant@cognizant.com](mailto:NBCUDevOpsCognizant@cognizant.com) | NBCUDevOpsCognizant (Cognizant) | DevOps Implementation POC – Cognizant |
|  |  |  |  |

# ADSDevOps Reference Architecture



# CICD Architecture, Job Execution Workflow

INSIGHTS

GitHub

DB Automation

*Script*

*Repository*

Artifactory

App Server

*Pull Request*

CI Quality Test-Reports

*Phrase*

*Triggers*

*CI*

PCF

Jenkins CI Server

Jenkins Slave

*Load distribution*

*TCP/IP*

*Performs*

*CI/CD*

# Tools Administration

## Jenkins Master hosted on 100.114.222.29

1. App Status:

You can view the application status by hitting the URL or login to the server and check for the Jenkins process running

Issue command: service Jenkins status

OR

Check the process for Jenkins: ps –ef | grep jenkins

1. Backup:

Job: <http://100.114.222.29:8080/job/DevOps_POC/job/Jenkins_BackUp/>

This job will tar the entire Jenkins Home directory (/var/lib/Jenkins) from master and pushes it to 100.114.222.24:/Data/Jenkins\_Server\_Backup/

This job will run every Friday 11:22:37 PM PDT

1. Restart process:

Whenever there is any issue with Jenkins application and unable to load, follow the below process.

1. Via Console:

* Open URL - <http://100.114.222.29:8080/manage>
* Click on ‘Restart Safely’ .. this will restart Jenkins when no jobs are running in the background

1. Via SSH: Execute below via root

* Stop the service by issuing this command: sudo service jenkins stop
* Start the service by issuing this command: sudo service jenkins start

1. Once started, check the process or status by following Section a. App Status
2. Logs:

Logs for the Jenkins application can be viewed at /var/log/Jenkins location

## Artifactory hosted on 100.114.222.28

1. App Status:

You can view the application status by hitting the URL or login to the server and check for the artifactory process running

Issue command via root: /Data/artifactory-oss-5.8.3/bin/artifactory.sh status

OR

Check the process for Jenkins: ps –ef | grep artifactory

1. Backup jobs:

Incremental backup is being taken in the Artifactory level and is backup up at **/Data/Artifactory\_backup** location on 100.114.222.28

You can see the settings below:

<http://100.114.222.28:8081/artifactory/webapp/#/admin/services/backups>

1. Restart Process:

Whenever there is any issue with Artifactory application and unable to load, follow the below process.

1. Via SSH: Execute below via root

* Stop the service by issuing this command:
  + /Data/artifactory-oss-5.8.3/bin/artifactory.sh stop
* Start the service by issuing this command:
  + /Data/artifactory-oss-5.8.3/bin/artifactory.sh start

1. Once started, check the process or status by following Section a. App Status
2. Logs:

Logs for the Jenkins application can be viewed at /var/log/Jenkins locationLogs:

Logs for Artifactory can be viewed at /Data/artifactory-oss-5.8.3/logs