# **JAM : Discovery Module**

## **Standard Operating Procedure for JAM compute based asset discovery Script**

### **Overview:**

In this document, We are going to talk about the scripts that will find the Hardware and Operating System information from each of the server running at RJIL. This script is a part of Asset Discovery module under the project called JAM.

The scripts are written in bash shell.

Scripts are:

all\_unix.sh

all\_unix\_Installed\_SW.sh

JAM\_CONFIG.conf

run\_checksum.sh

run\_all\_unix.sh

**all\_unix.sh** : This script gets the OS and Hardware information from the server on which it will run.

**all\_unix\_installed\_SW.sh** : This script gets the installed software and packages list from the server on which it will run.

**run\_checksum.sh** : This script gets the checksum details of all these five scripts from the server on which it will run.

**JAM\_CONFIG.conf** : This file carries the configurational details like Path, Output file name format etc.

**run\_all\_unix.sh** : This is the wrapper file that will be scheduled and initiate the execution of all the scripts.

### **Operating System:**

**OS : Unix (RHEL, SUSE, CENT. UBUNTU)**

The scope of this document is for the above stated operating system.

**Output file**:

When the wrapper file “run\_all\_unix.sh” runs, it at first executes “run\_checksum.sh” scripts after setting all the configuration details by including config file “JAM\_CONFIG.conf” file. Script “run\_checksum.sh” generates an output file with date and timestamp tagged.

CHK\_20200812221626.log <CHK\_YYYYMMDDHHMMSS.log>

After that it executes “all\_unix.sh” script files. This generated two output file with date and timestamp tagged.

JAM\_success\_20200812221626.log <JAM\_success\_YYYYMMDDHHMMSS.log>

JAM\_error.log

After that it executes “all\_unix\_installed\_SW.sh” and it generates two output files with date and timestamp tagged.

JAM\_SW.tmp

JAM\_SW\_20200812221627.log <JAM\_SW\_YYYYMMDDHHMMSS.log>

After successful execution of script “run\_all\_unix.sh”, some output lines are appended to file “Status.log”. This log file is shared with many script and each scripts after execution append some lines to this.

**Execution time**:

**run\_checksum.sh 2-4 sec Timeout set for 30 second :** After 30 sec, it will be terminated.

**all\_unix.sh 10-15 sec Timeout set for 60 second :** After 60 sec, it will be terminated.

**all\_unix\_installed\_SW.sh 20-30 sec Timeout set for 120 second :** After 120 sec, it will be terminated.

**run\_all\_unix.sh** There is no termination set for this wrapper script.

### **Deployment / Installation Steps:**

Step 1. Check for the directory on each server. If folders exits then leave it otherwise create it:

/opt/ngoagent/JAM/Discovery/script/

/opt/ngoagent/JAM/Stats/

Step 2. Copy following scripts to the path shown below:

Copy below listed script files to following folder

all\_unix.sh /opt/ngoagent/JAM/Discovery/script/

all\_unix\_Installed\_SW.sh /opt/ngoagent/JAM/Discovery/script/

JAM\_CONFIG.conf /opt/ngoagent/JAM/Discovery/script/

run\_checksum.sh /opt/ngoagent/JAM/Discovery/script/

run\_all\_unix.sh /opt/ngoagent/JAM/Discovery/script/

Step 3.

Set the wrapper script to scheduler (crontab) in root. The execute of script will happen through root.

Set the timing for 6:00 AM. – Daily.

0 6 \* \* \* bash /opt/ngoagent/JAM/Discovery/script/run\_all\_unix.sh > /dev/null 2>&1

### **Output:**

Check the output :

Please note that the output is in JSON format.

/opt/ngoagent/JAM/Discovery/script/ CHK\_20200813171102.log

/opt/ngoagent/JAM/Discovery/script/ JAM\_error.log

/opt/ngoagent/JAM/Discovery/script/ JAM\_success\_20200813171101.log

/opt/ngoagent/JAM/Discovery/script/ JAM\_SW.tmp

/opt/ngoagent/JAM/Discovery/script/ JAM\_SW\_20200813171102.log

/opt/ngoagent/JAM/Stats Status.log (line gets appended to this file)

### **Output File considered for Filebeat :**

Following output files will be configured to filebeat that will read the data and sent it to Kafka Topic.

/opt/ngoagent/JAM/Discovery/script/ CHK\_20200813171102.log

/opt/ngoagent/JAM/Discovery/script/ JAM\_success\_20200813171101.log

/opt/ngoagent/JAM/Discovery/script/ JAM\_SW\_20200813171102.log

### **Kafka Topic:**

Discovery will use a separate topic : jam-discovery-logs.

