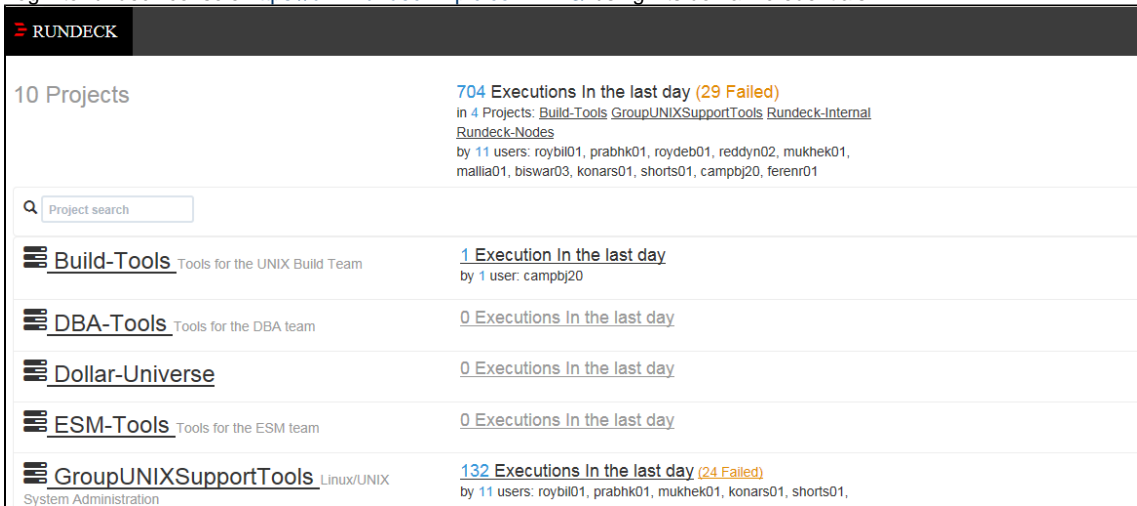


Aix Build process :-

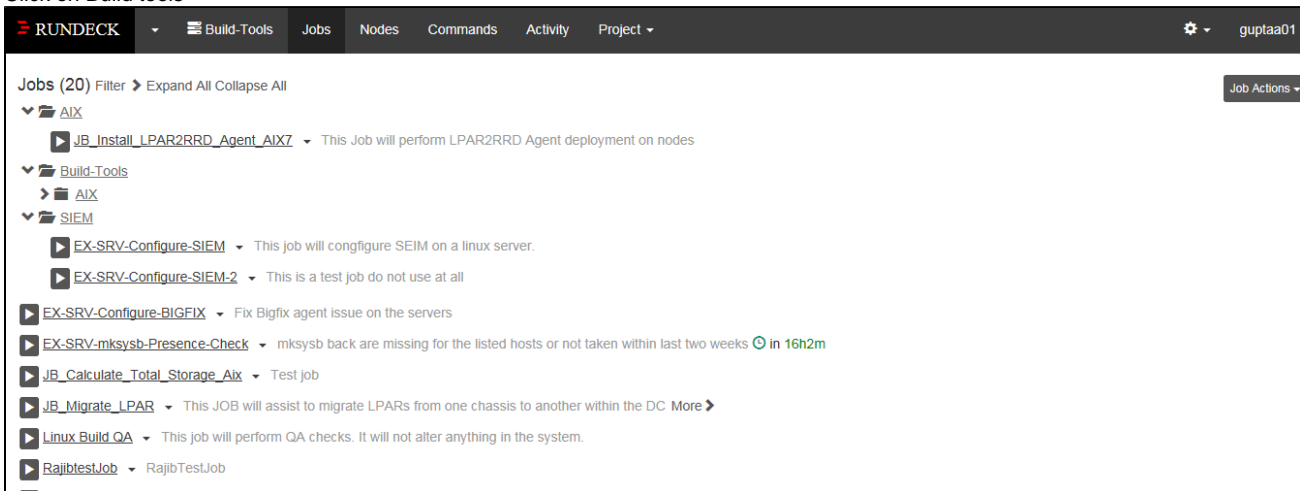
- Login to rundeck console <https://unix-rundeck.kfplc.com:4443/> using kits domain credentials



The screenshot shows the RunDeck console dashboard. At the top, there's a header with the RunDeck logo. Below it, a summary bar indicates "10 Projects" and "704 Executions In the last day (29 Failed)". It lists the projects involved: Build-Tools, GroupUNIXSupportTools, RunDeck-Internal, and RunDeck-Nodes, along with the users who executed them. Below this is a search bar and a table of projects. The projects listed are Build-Tools, DBA-Tools, Dollar-Universe, ESM-Tools, and GroupUNIXSupportTools. Each project entry shows the number of executions in the last day and a link to view more details.

| Project | Executions In the last day |
|-----------------------|--|
| Build-Tools | 1 Execution In the last day |
| DBA-Tools | 0 Executions In the last day |
| Dollar-Universe | 0 Executions In the last day |
| ESM-Tools | 0 Executions In the last day |
| GroupUNIXSupportTools | 132 Executions In the last day (24 Failed) |

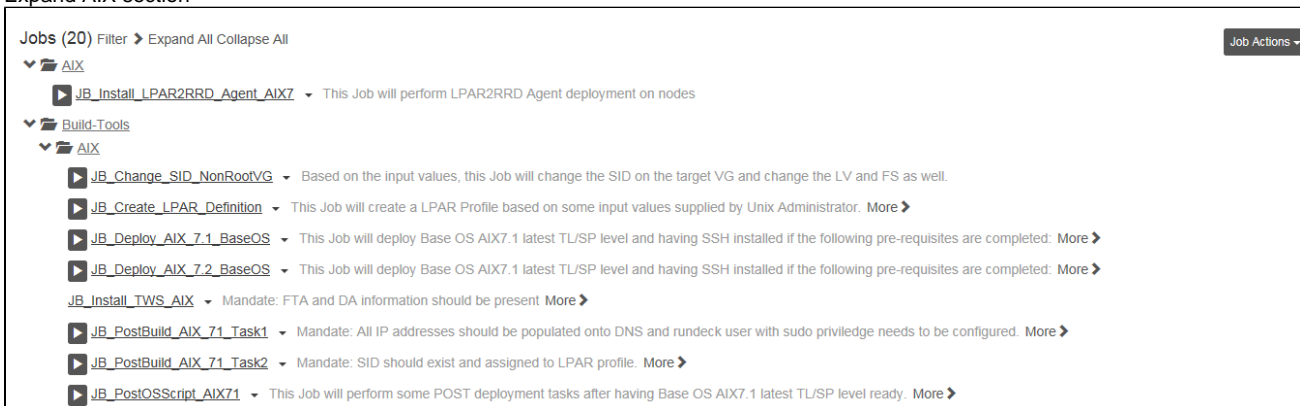
- Click on Build tools



The screenshot shows the RunDeck console with the "Build-Tools" project selected. The top navigation bar includes links for Build-Tools, Jobs, Nodes, Commands, Activity, and Project. Below the navigation bar, there's a section for "Jobs (20)" with a filter and expand/collapse options. The jobs listed are categorized under "AIX" and "Build-Tools". The jobs include JB_Install_LPAR2RRD_Agent_AIX7, EX-SRV-Configure-SIEM, EX-SRV-Configure-SIEM-2, EX-SRV-Configure-BIGFIX, EX-SRV-mksysb-Presence-Check, JB_Calculate_Total_Storage_Aix, JB_Migrate_LPAR, Linux Build QA, and RajibTestJob. Each job entry has a description and a link to view more details.

| Job Name | Description |
|--------------------------------|---|
| JB_Install_LPAR2RRD_Agent_AIX7 | This Job will perform LPAR2RRD Agent deployment on nodes |
| EX-SRV-Configure-SIEM | This job will configure SEIM on a linux server. |
| EX-SRV-Configure-SIEM-2 | This is a test job do not use at all |
| EX-SRV-Configure-BIGFIX | Fix Bigfix agent issue on the servers |
| EX-SRV-mksysb-Presence-Check | mksysb back are missing for the listed hosts or not taken within last two weeks |
| JB_Calculate_Total_Storage_Aix | Test job |
| JB_Migrate_LPAR | This JOB will assist to migrate LPARs from one chassis to another within the DC |
| Linux Build QA | This job will perform QA checks. It will not alter anything in the system. |
| RajibTestJob | RajibTestJob |

- Expand AIX section



The screenshot shows the RunDeck console with the "Build-Tools" project selected and the "AIX" section expanded. The jobs listed under "AIX" include JB_Change_SID_NonRootVG, JB_Create_LPAR_Definition, JB_Deploy_AIX_7.1_BaseOS, JB_Deploy_AIX_7.2_BaseOS, JB_Install_TWS_AIX, JB_PostBuild_AIX_71_Task1, JB_PostBuild_AIX_71_Task2, and JB_PostOSScript_AIX71. Each job entry has a description and a link to view more details.

| Job Name | Description |
|---------------------------|--|
| JB_Change_SID_NonRootVG | Based on the input values, this Job will change the SID on the target VG and change the LV and FS as well. |
| JB_Create_LPAR_Definition | This Job will create a LPAR Profile based on some input values supplied by Unix Administrator. |
| JB_Deploy_AIX_7.1_BaseOS | This Job will deploy Base OS AIX7.1 latest TL/SP level and having SSH installed if the following pre-requisites are completed: |
| JB_Deploy_AIX_7.2_BaseOS | This Job will deploy Base OS AIX7.1 latest TL/SP level and having SSH installed if the following pre-requisites are completed: |
| JB_Install_TWS_AIX | Mandate: FTA and DA information should be present |
| JB_PostBuild_AIX_71_Task1 | Mandate: All IP addresses should be populated onto DNS and rundeck user with sudo privilege needs to be configured. |
| JB_PostBuild_AIX_71_Task2 | Mandate: SID should exist and assigned to LPAR profile. |
| JB_PostOSScript_AIX71 | This Job will perform some POST deployment tasks after having Base OS AIX7.1 latest TL/SP level ready. |

- Click on JB_Create_LPAR_Definition and the following screen will appear

JB Create LPAR Definition

This Job will create a LPAR Profile based on some input values supplied by Unix Administrator. More▼
It will also perform VIO mapping and boot the LPAR in SMS mode, capture WWPn and trigger email alert to desired mail / mail group.

Prepare and Run... Definition

LPAR_NAME ⚠
Enter the LPAR NAME, e.g. tsta0028_tst28

SITE_NAME ⚠
Enter the DC name, e.g. NEOS or FDC

HMC_NAME ⚠
Enter the Valid HMC Name from the Drop Down List

EC_MEM ⚠
Enter the Entitled CPU Capacity and Memory value (in MB Format) with a comma separated value Example:
0.2,2048

CPU_POOL ⚠
Enter the valid CPU POOL Name

FRAME_NAME ⚠
Enter the target Frame name from the list box

Run Job Now **Run Job Later** ☒ Follow execution

- We need to populate all the fields like LPAR NAME , SITE NAME etc . These details would be gathered from the SBR form.
- This will create lpar . Once this has been done we need to perform the storage related zoning activity and disk allocation.
- Once boot disks have been allocated from the LPAR , we need to run the next rundeck job "JB_Deploy_AIX_7.1_BaseOS"

JB Create LPAR Definition

This Job will create a LPAR Profile based on some input values supplied by Unix Administrator. More▼
It will also perform VIO mapping and boot the LPAR in SMS mode, capture WWPn and trigger email alert to desired mail / mail group.

Prepare and Run... Definition

ADMIN_IP ⚠
Enter the Admin IP of target client [DNS must be there]

ADMIN_MASK_GATEWAY ⚠
Choose the valid netmask and gateway from drop down list.

LPAR_NAME ⚠
Enter the target LPAR NAME. e.g. unxa0800_test1

SHORT_NAME ⚠
Enter the short host name. e.g. unxa0800

NIM_SERVER ⚠
Choose the correct NIM server

FRAME_NAME ⚠

Run Job Now **Run Job Later** ☒ Follow execution

- We need to populate the admin ip address of the LPAR , Gateway , LPAR names , NIM server , Chassis name etc which would build the server at os level AIX 7.1.
- When this job runs successfully , an aix server would be created which would have connectivity with jenkins master server.
- Next we log in to jenkins master <https://infrabuildjenkins.kfplc.com:8443/> using kits domain id and credential and navigate to AIX folder.

Jenkins 2 **Ayan Das Gupta** | **log out**

Jenkins > AIX > [ENABLE AUTO REFRESH](#)

AIX

test build job tested by Ayan do not use on any newly built server

[add description](#)

| S | W | Name ↓ | Last Success | Last Failure | Last Duration |
|---|---|--|-------------------|-------------------|---------------|
| 🌐 | ☀ | Non-prod without ITM | 1 mo 0 days - #1 | N/A | 6 min 5 sec |
| 🌐 | ☁ | Non-prod without ITM and Netbackup | 1 mo 0 days - #2 | 1 mo 0 days - #1 | 1 min 48 sec |
| 🌐 | ☁ | postinstall | 1 mo 0 days - #17 | 1 mo 4 days - #14 | 9 min 3 sec |
| 🌐 | ☀ | Prod with ITM | N/A | N/A | N/A |
| 🌐 | ☀ | test job | N/A | N/A | N/A |

Icon: [S](#) [M](#) [L](#)

[Legend](#) [RSS for all](#) [RSS for failures](#) [RSS for just latest builds](#)

- A lot different pipelines have been cretaed based on different request that comes to build queue. But the main ones are 'Non-prod without ITM' and 'Prod with ITM'.
- As an example for this document , we click on the pipeline " Non-prod without ITM "
- We Click on Build with parameters
- Next we populate the parameters and the following screen will appear

Pipeline Non-prod without ITM

This build requires parameters:


| | |
|--------------------------------------|--|
| branch_ansible | <input type="text" value="develop"/> |
| jenkins_server | <input type="text" value="Inxs0919.kitsnp.kfplc.com"/> |
| os_type | <input type="text" value="aix"/> |
| host_name | <input type="text" value="none"/> |
| dm | <input type="text" value="gha"/> <small>gha opco</small> |
| admin_name | <input type="text"/> |
| service_name | <input type="text"/> |
| service_ip | <input type="text"/> |
| backup_ip | <input type="text"/> |
| <input type="button" value="Build"/> | |

- In this pipeline , we choose the domain (gha/ghanp or ukbq)
- Also we need to specify the admin hostname , service hostname , service ip address and backup id address if any.Once all the fields are populated , we click on the Build button.
- The progress of the job can be monitored in the pipeline view .

Pipeline Non-prod without ITM

Full project name: AIX/Non-prod without ITM
test job

[edit description](#)

 [Recent Changes](#)

Stage View

| Average stage times: | | Declarative: Checkout SCM | Set up workspace git | Add target host to run in inventory | Common post install changes | Set up service and backup ip | Install uptime | Configure SIEM | Configure BIGFIX | Configure Netbackup | Remove WS if job is successful | Declarative: Post Actions |
|----------------------|-------------------------|---------------------------|----------------------|-------------------------------------|-----------------------------|------------------------------|----------------|----------------|------------------|---------------------|--------------------------------|---------------------------|
| | | 1s | 1s | 2s | 5s | 33s | 25s | 12s | 28s | 4min 10s | 378ms | 44ms |
| #1 | Mar 12 15:59 No Changes | 1s | 1s | 2s | 5s | 33s | 25s | 12s | 28s | 4min 10s | 378ms | 44ms |

- This will complete the post build activities on the Aix server via different ansible roles.