

E-Track System

Cipla Limited

Installation Qualification Document

This user's guide includes the installation qualification protocols defined for the application.

1 4-9-2012

Prepared By: Leena Patil

Version Number: 1.0.0

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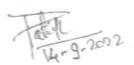
REVISION HISTORY

| Revision Number | Date | Prepared By | Reviewed By | Comment |
|--------------------|--------------|-------------|---------------------------------------------|----------------------------------------|
| 1.0 | 14-Sept-2022 | Leena Patil | Abhishek Palwankar, Narendrababu Kota | Installation Qualification Protocol |

4-9-2022

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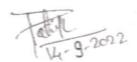


| INSTALLATION QUALIFICATION PROCTOCOL | | | |
|--------------------------------------|----------------|--------------|-------------------------------------------------|
| System Name | E-Track System | Document No. | Cipla_E-Track - Installation Qualification_V1.0 |
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1 PROTOCOL APPROVAL

| | Prepared By | |
|--------------------|-----------------------------------------|------------------|
| Name | Designation | Signature & Date |
| Leena Patil | Technical Writer | W-9.2002 |
| | Checked By | |
| Name | Designation | Signature & Date |
| Abhishek Palwankar | Tech Manager – Projects and Presales | 16 03 3022 |
| Narendrababu Kota | Deployment Specialist | Kalamata data |

| | Approve | d By | |
|------------|-------------|---------------------|------------------|
| Department | Name | Designation | Signature & Date |
| Software | Ritu Kapoor | Head of Engineering | 14.9.202 |



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| Pre-Approval (Cipla Team) | | | |
|---------------------------|------|-------------|---------------------|
| Department | Name | Designation | Signature 8 Date |
| IT Infra | | | |
| IT BP | | | |
| Business SPOC | | | |
| Unit QA | | | |
| CQA | | | |

Refer pre-approved annexure.

IQ-Development pre-approval.

K. Narendrafely

29.09.22



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2 SYSTEM DETAILS

Type of Validation: (Tick (\checkmark) whichever is applicable)

| Prospective Validation | Re-Validation | Retrospective Validation |
|------------------------|---------------|--------------------------|
| ✓ | | - |

Testing Environment: (Tick (\checkmark) whichever is applicable)

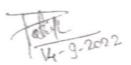
| Test | Validation | Production |
|------|------------|------------|
| ✓ | | ww |

System & Software Details:

| System Details | System Name | Development Server |
|---------------------|-----------------------------|--------------------|
| | System No. | 172.16.10.242 |
| Software Details | Software Name (PC Based) | Cipla E-Track |

System Details:

| Software Name: | Cipla E-Track System |
|------------------------------|----------------------|
| System Identification Number | 172.16.10.242 |



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3 PURPOSE

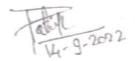
The purpose of installation qualification to display the audit trail of uploading the E-Track build to track server using Azure DevOps to process the flow build and release the application to Cipla E-Track system.

4 SCOPE

The scope of this document is to perform the installation qualification of CICD Pipeline of development server.

5 REFERENCE

CAPA Reference: CAPA-1025-2021-00199 Audit trail program will be added in the e-track system.

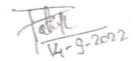


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6 RESPONSIBILITIES

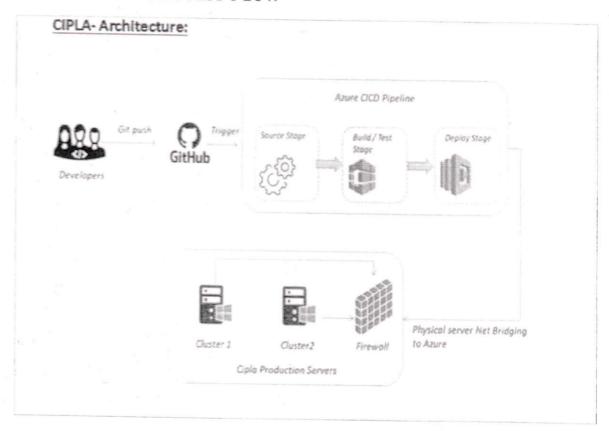
Responsible persons for validation activity as following:

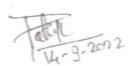
| Function | Name | Responsible for (Name of the Activity) |
|-------------------------|-------------------|----------------------------------------|
| Vendor's Representative | Narendrababu Kota | Performer |
| Information Technology | | Reviewer |
| Business SPOC | | Reviewer |
| Quality Assurance | | Review and Approve |



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7 SCHEMATIC PROCESS FLOW



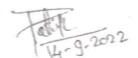


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8 PRE-INSTALLATION CRITERIA

BCIL will perform Azure development activity on DevOps CI/CD pipeline and in On-Premises server and add deployment group and configure agent pool.

- 1. Provide access to Microsoft DevOps and On-Premise Development Server.
- 2. Installing Power shell script/agent at On-Premise Development Server.
- 3. Manage Azure DevOps for Cipla for CI/CD configuration to a dedicated account.
- Azure DevOps CI/CD Pipeline dedicated URL's to be opened at Firewall to access from On-Premise Development Server.

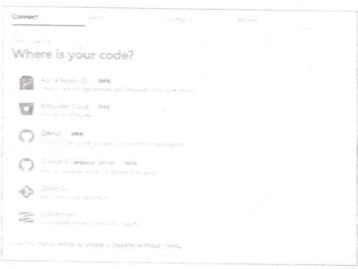


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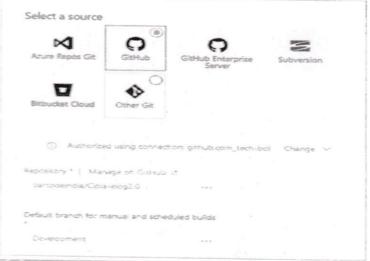
9 CONFIGURATIONS DONE

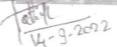
9.1 AZURE DEVOPS CONFIGURATION

1. In the pipeline section we are using creating new pipeline then select the Classic editor option:



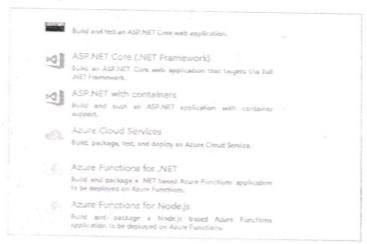
After selecting the GitHub then select repository and branch where maintaining the source code:



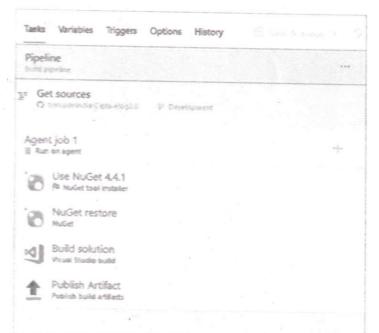


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3. Select the template:



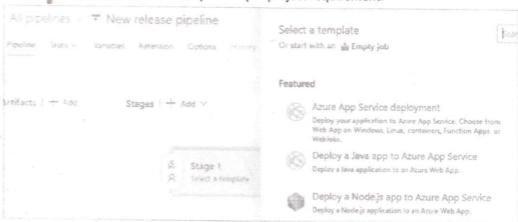
4. Configure all the required fields:



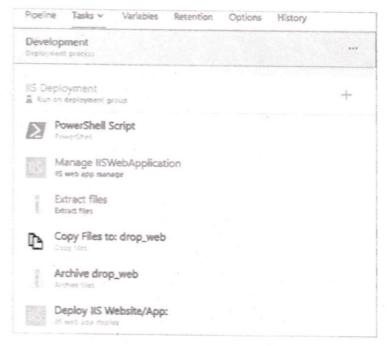
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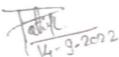
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5. Release Pipeline: Select the template as per project requirement.



6. Add the tasks to deploy the application in to IIS web server:





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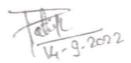
Deployment Groups:

Added the deployment group of the Development server to configure Azure Pipelines to deploy the application onto the server:



Agent Pools:

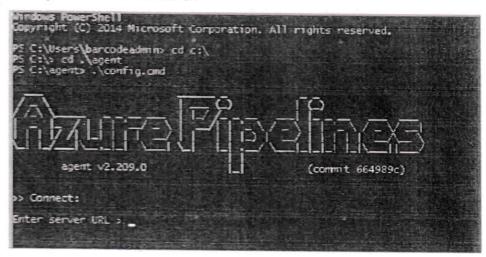
An agent pool is a collection of agents. Instead of managing agent individually, this can organize agents into agent pools. When an agent configured, it gets registered with a single pool and the pipeline create can specify to the pool in which the pipeline runs. And when the pipeline run, it runs on an agent server from that pool meets the pipeline.



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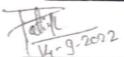
9.2 ON PREMISE E-TRACK SERVER CONFIGURATION

Configuring deployment group in on premise servers to communicate between Azure DevOps and Development On-Premises server:



When we run .\run.cmd command there it shows listening for jobs there the connection established from Azure DevOps to Cipla on-prem server.

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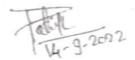
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10 Post Results

| Sr. No. | Test | Expected Result | Actual Result | Result Pass/Fail | Performed by Sign & Date |
|----------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------|----------------------------------------------|
| 5 * 1 5 | Open port number 80 | This is the port number for the application which we configure in the IIS web server. | Refer Avenuse 1:0 | Bes | K. Naradosdals 29.09.22 Narados (|
| 2 | Open port number 443 | This is the default port number for the HTTPS protocol for communicating the external websites to the on-prem servers like dev.azure.com | Refer Annemuse 1.0 | Bus | K. Narevebrebehr 29.09.25 Narevolva. K |
| 3 | Agent installed and should be running up | .\run.cmd to verify whether the agent is working or not in the server. After running this command there we observe listening for jobs then it is working fine. | Refer Anner use 1.0 | Pay | Kularadosbal 29.09.2 |
| 4 | Configuration of pipelines while creating CICD to build and release the application | After configuring the CI/CD pipeline to run a CI pipeline the build is executed successfully then everything is working fine here. In the release pipeline section, we release the application then it fetches all the changes into the specific target | Refer Amenure 1.0 | Pass | K. Norachrefold 29.0922 Nareda k |

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| Sr. No. | J est | Expected Result | Actual Result | Result Pass/Fail | Performed by Sign & Date |
|---------|---------------|--------------------------------------------------------------------------------------------|--------------------------|---------------------|-------------------------------------------------------|
| | | folder. There we observe whether the changes reflecting or not into the particular server. | Refer Annexuse 1.0 | Pass | Kwarerdendel |
| 5 | Audit Trail | Build upload on server are completed and same is displayed in Audit Trail report. | Refer Announce 1.0 | Pass | Namerales ! Kybereladels 29.09.2 Manerales ! |



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11 TEST DEFECT MANAGEMENT

| Page No. | Test No. | Brief description of the Test Defect | Report attached (Yes/No) | Resolution date |
|----------|----------|--------------------------------------|--------------------------------|-----------------|
| | | | | |
| | 7 | | | |

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12 DEVIATION RECORD

| Page No. | Test No. | Brief description of Deviation | Report attached (Yes/No) | Resolution Date |
|----------|----------|--------------------------------|--------------------------------|-----------------|
| | | | | |
| | | | | |
| | | | | |

Attach deviation report and supporting documentation (if any) to the attachments.

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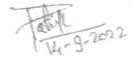
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14 POST APPROVAL

In the list below all persons having participated in the execution of IQ and having signed on any of the tests are identified with their full name, department and function and their signature. With this signature the test participant confirms awareness of procedures to be followed in qualification tests and completion of associated documentation.

| | Review & Approval | (Cipia ream) | |
|---------------|-------------------|--------------|------------------|
| Department | Name | Designation | Signature & Date |
| IT Infra | | | |
| IT BP | | | |
| Business SPOC | | | |
| Unit QA | 6 | | |
| CQA | 8 | | |



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10th 14-9-2012

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