Release 5 Planning

Sukhdev Kapur

Jeff Brower - added items in red

Release 5 target date is June 30th 2021.

Classes of release 5 Blueprints and the requirements to be included in Release 5

The requirements for the blueprints to be included in release 5 are as follows:

Depending upon the situation, the PTLs are suggested to meet the following criteria -

Class 1: The Blueprints moving from Release 4 to Release 5

If the blueprint is already part of release 4 and you want this to be included in release 5, please follow the following steps:

- Did you make any improvements in release 5 - e.g. you fixed bugs or added additional features?
  - If Yes:  
    - Does it impact the APIs or Documentation?
    - If yes,  
      - Please update the APIs and the documentation and send the email to respective sub-committee chairs.
    - For APIs, please see API Subcommittee Guidelines below
    - Run the security scans and upload the link in the table below next to your blueprint
    - Upload the latest CI/CD logs
    - Send an email to tsc@lists.akraino.org to notify the TSC
    - Put yourself on the TSC agenda and request for the approval
  - If No:
    - No additional formalities are required
    - Send an email to tsc@lists.akraino.org to notify the TSC
    - Put yourself on the TSC agenda and request for the approval

Class 2: The Blueprints moving from Release 3 to Release 5

If the blueprint is already part of release 3 and not release 4 and you want this to be included in release 5, please follow the following steps:

Note that in release 4, a new requirement was introduced to expose all the API consumed and offered by your blueprint.

- Please update the documentation to include new API section.
- Follow the guidelines to submit API information as per the requirements specified in the API sub-committee
- send the email to respective documentation and API sub-committee lists.
  - If you require assistance with documentation or APIs, please reach out the respective subcommittee to be included on their agenda and discuss with them otherwise you are done
- For APIs, please see API Subcommittee Guidelines below
- Run the security scans and upload the link in the table below next to your blueprint
- Upload the latest CI/CD logs
- Send an email to tsc@lists.akraino.org to notify the TSC
- Put yourself on the TSC agenda and request for the approval

Class 3: The Blueprints moving from Release 2 or earlier to Release 5

If the blueprint is already part of release 1 or 2 and not release 3 or 4 and you want this to be included in release 5, please follow the following steps described under Class 4 below.

Class 4: New Blueprints being introduced for the first time in Release 5

Please follow the requirements specified in release 4 with the following exceptions:

1. The sub-committee presentations are optional starting from release 5 and for your benefit only. If you require assistance on any of the areas such as APIs, documentation, Security scans or CI/CD logs, please schedule a meeting with appropriate subcommittees.
2. For APIs, please see API Subcommittee Guidelines below
3. Once you meet the requirements of respective subcommittee, please send them an email to notify them. Except for APIs, as noted in 2., if they require any clarification, they will either invite you to meet with them or they will approve your blueprint via email.
4. Send an email to tsc@lists.akraino.org to notify the TSC
5. Put yourself on the TSC agenda and request for the approval

API Subcommittee Guidelines
Please follow step-by-step instructions on the API Subcommittee API reporting wiki page. If after submitting your API info form (or an updated form, if you are in Class 1 and the form has changed since Release 4) and notifying the subcommittee by e-mail they have questions, then schedule a time when either subcommittee members may attend your weekly BP meeting or you can attend the API subcommittee weekly meeting in order to discuss and resolve the questions. When meeting, please be prepared with architecture and data flow diagrams so the API subcommittee can understand and confirm 1) APIs consumed and offered by your BP, 2) upstream project APIs, and 3) customer-facing demo APIs. This information will be used to update the Akraino website API Map, which makes your BP visible and searchable to customers and entities outside of Akraino, so completeness and accuracy is important.

1. Self Certified Milestones Achievement Due Date May 31st 2021 (Milestone 4)

2. Maturity Review Milestone Achievement Due date May 31st 2021

Please add targeted and achieved R4 milestones at:
BP Incubation Stage Reporting R4 (To be updated)

Define area of focus
(to be updated)

1. Virtual meeting to start to have a session to discuss all of the agenda items.
2. Different patches from different blueprints need to be up-streamed.
3. Need a consistent framework
4. New blueprints have been committed for R5.
5. Want to increase standards on Release 5.
6. Validation Project test layers and test cases
7. Self Certification in R4?

Release 5 Requirements

1. High Level Overall Requirements
2. CI, Blueprint Validation Lab Sub-Committee Requirements
   b. Peering w/LF Jenkins - (Note: peering is an optional requirement)
   c. Push logs through Nexus. (Note: This is mandatory for incubation self-certified and maturity)
   d. Usage of topics for release
      i. Releases >= 1.0 (e.g. 1.xyz, 2.xyz etc) are reserved for BP that have been approved as Core by the TSC (considered ‘GA’ quality).
      ii. Releases <1.0 (e.g. 0.xyz etc) are reserved for projects that have not reached the Akraino Core level (i.e. anything that is in Incubation (‘alpha’ quality) and Mature (‘beta’ quality)).
   e. Enforcement of Static Code Analysis through SonarCloud (SaaS), WIP LF Release Engineering & Security Subcommittee. (Note: This is an optional requirement for incubation self-certified and mandatory for maturity)
3. Security Sub-Committee Requirements, please fill in Release 4 Blueprint Scanning Status. Instructions can be found at: Steps To Implement Security Scan Requirements
4. Blueprint Validation Framework Feature Project Requirements See TSC meeting.
5. Projects going for Maturity Review please refer to Maturity Criteria defined by Process Subcommittee BP Graduation Review Processes and Criteria (Note this is not required for self certification, only required for maturity review)
6. Documentation Sub-Committee Requirements
   **User Documents:**
   The following documentation with the following sections called out should be on the wiki with links to rest of the sections as applicable. We prefer that the entire doc is on the wiki but we do not require it.
   - Architecture - Blue print Overview and overall architecture
   - Release Notes – Summary and What is released
   - Installation Doc – Introduction and deployment architecture
   - Test Document – Introduction and Overall Test Architecture
   **Developer Documents:**
   We are also recommending that blueprints include via ReadtheDocs, with each Blue Print given their own repo, but we do not require it
7. API Sub-Committee Requirements (Note: See this link for requirements: Blueprint Projects R4 and R5 API Reporting Requirements)
8. Community Sub-Committee Requirements (Note: no mandatory requirements for incubation self-certified or Maturity)
9. Process Sub-Committee Requirements (Note: See the Process Sub Committee page defining the TSC approved Maturity review process and requirements for those requesting inclusion in R3 at mature level BP Graduation Review Processes and Criteria)
10. Upstream Sub-Committee Requirements (Note: no mandatory requirements for incubation self-certified or Maturity). Here is the R4 release Upstream BP review status, Release Upstream Compliance. Also please refer to the page for the R4 requirement as well.
# Blue Prints Participating in Release 5

Internal Target date to meet Rel 5 Criteria is June 30th (please add your target/achieved date at the BP Incubation Stage Reporting R2 (To Be Updated))

(To be updated)

<table>
<thead>
<tr>
<th>No.</th>
<th>Project Name</th>
<th>TSC Subgroup</th>
<th>Release Status</th>
<th>Blue Print Stage</th>
<th>CD Logs URL to be used for review</th>
<th>Link to executive one pager</th>
<th>API Info Reporting Review</th>
<th>BluVal Certification</th>
<th>Security Certification</th>
<th>Upstream Review</th>
<th>Date ready for TSC review</th>
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**Incubation Level Review Results:**
- 09 Aug 2021 Vuls: Accepted with exceptions shown at: Release 5 Vuls Exception Request

**Security Certification:**
- Vuls: Accepted

**Upstream Review:**
- 09 Aug 2021 Lynis: Accepted
- 09 Aug 2021 Kube-Hunter: Cluster: Accepted
- Pod: Accepted

Completed by 8/6/2021
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**Network Cloud and TF (Tungsten Fabric) Integration Project**

Per e-mail from Sukhdev 5Aug21, no change from R4

Not required as there is no change from Release 4

Completed by 8/10/2021

08/12/2021

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**Incubation Level Review Results:**

- **20 Jul 2021**
  - Vuls: Accepted with exceptions shown at: Release 5 Vuls Exception Request

**Akraino BluVal Exception Request:**

- **20 Jul 2021**
  - Lynis: Accepted
  - Kube-Hunter:
    - Cluster: Accepted
    - Pod: Accepted with exceptions shown at: Release 5 Blueprint Scanning Status
| Incubation | Akraino RS blueprint Datasheet, KNI PAE.pdf | E-mail from Ricardo on 10 Aug 2021, he uploaded R5 API info forms for both KNI blueprints, with no substantive changes from R4. The API subcommittee has a review scheduled for 20 Aug 2021 of the new API info forms and will update this table afterwards. On 20 Aug 2021, the API Subcommittee reviewed and accepted the updated KNI R5 API forms.

Incubation Level Review Results:
- Vuls: Accepted with exception. The KNI Provider Access Edge blueprint uses OpenShift as its k8s distribution, which is deployed on Red Hat CoreOS, an immutable OS that is not supported by Vuls.

- Lynis: Accepted

20 Aug 2021
Output manually generated, located at:
- Release 5 Security Scan Manual Logs
- Kube-Hunter: Cluster: Accepted
- Pod: Accepted with exceptions shown at:
- Release 5 Blueprint Scanning Status |
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9/16/2021
9/20/2021
9/21C
The AI Edge: Intelligent Vehicle-Infrastructure Cooperation System (I-VICS)

Yu, Liya

No Incubation

https://nexus.akraino.org/content/sites/logs/fate/job/s- VICS/5/

Intelligent Vehicle-Infrastructure Cooperation System (I-VICS) Datasheet

Per e-mail from Zhuiming Zhang (Simmy Zhang) 30Aug21, no changes from R4. Confirmed by Shihui Wang in e-mail 30Aug21

https://nexus.akraino.org/content/sites/logs/fate/job/s- VICS/5/

No new features or bugs have been added after R4 release.

Missing Upstream Information

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5G MEC/Slice System to Support Cloud Gaming, HD Video and Live Broadcasting Blueprint

Feng Yang

TSC 2021-08-17 (Tuesday) 7:00 am Pacific

No Incubation

https://nexus.akraino.org/content/sites/logs/tencent/job/tencent_5g_mec/5G_MEC_Akraino_R4&5_blueprint_Datasheet.docx

Per e-mail from Eagan Fu 15Aug21, no change from R4

Completed by 8/24/2021

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IEC Type 3: Android cloud native applications on Arm servers in edge for Integrated Edge Cloud (IEC) Blueprint Family

hanyu ding

No Incubation

https://nexus.akraino.org/content/sites/logs/cmti/job/iec5_r4/15/IEC_Release5-SmartNIC_System_Architecture.pdf

IEC Release5 SmartNIC System Architecture.pdf

Per e-mail from Leo Li (Socnoc AI Inc) 11Aug21, no change from R4

BluVal Exception has been accepted for the project.

Akraino BluVal Exception Request

R5 Release Notes of IEC Type 5: SmartNIC for Integrated Edge Cloud (IEC) Blueprint Family

Completed by 8/30/2021

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IEC Type 5: SmartNIC for Integrated Edge Cloud (IEC) Blueprint Family

Leo Li

No Incubation

https://nexus.akraino.org/content/sites/logs/cmti/job/iec5_r4/15/IEC_Release5-SmartNIC_Datasheet.docx

IEC Release5 SmartNIC System Architecture.pdf

Per e-mail from Lao Li (Bocnoit AI Inc) 11Aug21, no change from R4

BluVal Exception has been accepted for the project.

Akraino BluVal Exception Request

R5 Release Notes of IEC Type 5: SmartNIC for Integrated Edge Cloud (IEC) Blueprint Family

Completed by 8/30/2021

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Enterprise Applications on Lightweight 5G Telco Edge

Gaurav Agrawal

No Incubation

https://nexus.akraino.org/content/sites/logs/huawei/job/ealt-edge-build/51/home/jenkins/log/

EALTEDGE Release 5 Datasheet

Per e-mail from Khemendra 20Aug21 (with Gaurav cc'd), no changes from R4

https://nexus.akraino.org/content/sites/logs/huawei/job/ealt-security-validation-build/19/results/

Akraino BluVal Exception Request

Incubation Level Review Results:

Vuls: Accepted with exceptions shown at:

Release 5 Vuls Exception Request

R5 - Architecture Documentation of Enterprise Applications on Lightweight 5G Telco Edge

Completed by 8/10/2021
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<th><a href="https://wiki.akraino.org/x/fileHubAg">https://wiki.akraino.org/x/fileHubAg</a></th>
<th>Per API Subcommittee meeting 30Jul21, no change from R4</th>
<th>PCEI R5 API Doc:</th>
<th>Incubation Level Review Results:</th>
<th>10 Aug 2021</th>
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<tr>
<td>18</td>
<td>Oleg Berzin</td>
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<td>19</td>
<td>The AI Edge: Federated ML application at edge</td>
<td>zifan wu haihui wang</td>
<td>No</td>
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<td><a href="https://nexus.akraino.org/content/sites/logs/fate/job/Fate_test/15/">https://nexus.akraino.org/content/sites/logs/fate/job/Fate_test/15/</a></td>
<td>Akraino R5 Federated ML blueprint datasheet.docx</td>
<td>Per e-mail from Zifan 8Aug21, no change from R4</td>
<td><a href="https://nexus.akraino.org/content/sites/logs/cont/job/pcei-daily/">https://nexus.akraino.org/content/sites/logs/cont/job/pcei-daily/</a></td>
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<td>20</td>
<td>KubeEdge Edge Service Blueprint</td>
<td>Yin Ding</td>
<td>@Alexand</td>
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<td>Completed by</td>
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<td>Private LTE /5G ICN Blueprint</td>
<td>Prem Sankar G</td>
<td>No</td>
<td>For e-mail from Prem 27Aug21, no change from R4</td>
<td>8/10/2021</td>
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<td>22</td>
<td>Rural Edge blueprint for Tami COVID-19 Blueprint</td>
<td>Sunjit Banejee</td>
<td>Yes</td>
<td>No Incubation</td>
<td>9/30/2021</td>
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<td>23</td>
<td>Smart Cities Blueprint</td>
<td>Olivier Bernard Cin dy Xing Alexander Su (<a href="mailto:alexander@nec.com">alexander@nec.com</a>) Jason Wen</td>
<td>Yes</td>
<td>Smart Cities R5 Executive One Pager, API info form uploaded 29 Sep 2021 to API Subcom review page (Blueprint Projects R4 and R5 API Reporting Requirements), Approved based on informal review 29 Sep 2021, Smart Cities R5 API Document</td>
<td>9/21C</td>
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<td>24</td>
<td>MEC-based Stable Topology Prediction for Vehicular Networks</td>
<td>Asif Mehmood</td>
<td>Yes</td>
<td>API info form uploaded by Asif 22 Sep 2021, scheduled for review by API Subcommittee 24 Sep 2021, Reviewed completed and info accepted 27 Sep 2021</td>
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<td>25</td>
<td>IEC Type 2 for Integrated Edge Cloud (IEC) Blueprint</td>
<td>Ashvin Kumar Trevo r Tao</td>
<td>No</td>
<td>Smart Cities R5 Security Certification, Incubation Level Review Results: 30 Sep 2021, Vuls: Accepted w/ exceptions shown at: Release 5 Vuls Exception Request</td>
<td>9/21C</td>
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28 Sep 2021
Here are the updated logs of the Lynis test:
https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-terraform/k3s/k3s-logs/

Incubation Level Review Results:

17 Sep 2021
Vuls: Accepted with exceptions shown at:
Release 5 Vuls Exception Request

16 Nov 2021
Here are the updated logs of the Lynis test:
https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-terraform/lynis-vuls-nov-16/os/lynis/

Lynis: Accepted

23 Aug 2021
Kube-Hunter:

Cluster: Accepted with exceptions shown at:
Release 5 Blueprint Scanning Status

This issue must be resolved prior to maturity.

Pod: Could the same comparison between k3s and microk8s be provided for the kube-hunter pod log as was provided for the cluster log?

The following vulnerabilities must be fixed:
- Access to pod’s secrets
  Suggestion: https://blog.aquasec.com/managing-kubernetes-secrets

Securing etcd secret data is stored in etcd. By default, etcd data is not encrypted and neither are your secrets. You should enable encryption at rest, limit access to etcd to admin users only, and safely dispose of disks where etcd data was formerly stored.

Use SSL/TLS when running etcd in a cluster, you must use secure peer-to-peer communication.

- Exposed Pods
  Description: An attacker could view sensitive information about pods that are bound to a node using the pods endpoint.

- KHV043:
  Cluster Health Disclosure
  Suggestion: Disable --enable-debugging-handlers kubelet flag.

- KHV007:
  Specific Access to Kubernetes API
  Suggestion: Review the RBAC permissions to Kubernetes API server for the anonymous and default service account.

- KHV005:
  Access to Kubernetes API

- KHV002:
  Kubernetes version disclosure
  Suggestion: Disable --enable-debugging-handlers kubelet flag.
26  IoT Workloads at the Smart Device Edge: Predictive Maintenance (with a Thermal Imaging Camera, vibration sensors, etc.)
    V S Aaron Williams

| IoT Workloads at the Smart Device Edge: Predictive Maintenance (with a Thermal Imaging Camera, vibration sensors, etc.) | No |

27  Federated Multi-Access Edge Cloud Platform
    Deepak Vij

| Federated Multi-Access Edge Cloud Platform | Yes | Incubation | N/A | 10/14 |

- **KHV050**: Read access to Pod service account token

  Suggestion: It is recommend ed to explicitly specify a Service Account for all of your workloads (serviceAccountName in Pod Spec), and manage their permissions according to the least privilege principle.

  Consider opting out automatic mounting of SA token using `automountServiceAccountToken: false` on ServiceAccount resource or PodSpec.

- **KHV044**: Privileged Container

<table>
<thead>
<tr>
<th>Per e-mail 09 Oct 2021, Deepak is in process of uploading API info form</th>
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<tbody>
<tr>
<td>As of 13 Oct 2021, Deepak sent API info form, and expects to upload to the API subcommittee page. The form shows Karmada APIs (enabled by CRD method) offered inside Kubernetes environment, but no 3rd party APIs offered or consumed.</td>
</tr>
<tr>
<td>Deepak uploaded API info form 14 Oct 2021, API subcommittee review scheduled for 15 Oct 2021</td>
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<tr>
<td>API info reviewed and approved by API subcommittee 22 Oct 2021. The subcommittee e-mailed Deepak asking to attend 29Oct (Fri) meeting and give more explanation about ETSI MEC interfaces in their Blueprint Wiki page with API info:</td>
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<thead>
<tr>
<th>Incubation Level Review Results:</th>
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<tbody>
<tr>
<td>21 Oct 2021</td>
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<tr>
<td>Vuls: All vulnerabilities &gt;9.0 must be fixed or verification provided that no patch currently exists:</td>
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<tr>
<td>CVE-2019-25032</td>
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<tr>
<td>CVE-2019-25034</td>
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<td>CVE-2019-25035</td>
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<td>CVE-2019-25036</td>
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<td>CVE-2020-12403</td>
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<tr>
<td>CVE-2020-36242</td>
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</table>

21 Oct 2021 |

Lynis: Need to fix the following vulnerabilities: |
- Checking PASS_MAX_DAYS option in /etc/login.defs: FAILED
  Suggestion: Configure maximum password age in /etc/login.defs
- Test ID AUTH-9328 (Default umask values): FAILED
  Suggestion: Default umask in /etc/profile or /etc/profile.d/custom.sh could be more strict (e.g. 027)
- Test ID SSH-7440 (Check OpenSSH option: AllowUsers and AllowGroups): FAILED
  Suggestion: Set AllowUsers & AllowGroups
- sysctl key kernel.dmesg_restrict: FAILED
  Suggestion: Set value to "1"
- sysctl key net.ipv4.conf.default.accept_source_route: FAILED
  Suggestion: Set value to "0"
- Test ID HRDN-7220 (Check if one or more compilers are installed): FAILED
  Compilers must be removed:
  - /usr/bin/las
  - /usr/bin/icc
  - /usr/bin/gcc

Please provide cluster.log file
Please provide pod.log file