

## ICN R2 Timelines

| Date      | Release /Tag                     | Features                                                                                             | Plan/Status Tracking (Please update your JIRAs and note any issues/road blocks with date stamp)                                                                                              |  |  |  |  |
|-----------|----------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Aug. 16th | Initial ICN intermediate release | Baremetal Operator                                                                                   |                                                                                                                                                                                              |  |  |  |  |
|           | ICN v.0.1.0                      | BPA controller - Provisioning                                                                        |                                                                                                                                                                                              |  |  |  |  |
|           |                                  | BPA RestAPI                                                                                          |                                                                                                                                                                                              |  |  |  |  |
|           |                                  | New KUD addons plugin                                                                                |                                                                                                                                                                                              |  |  |  |  |
|           | Sprint 1: Aug. 2nd               |                                                                                                      |                                                                                                                                                                                              |  |  |  |  |
|           | Sprint 2: Aug. 16th              | <div><div></div><div>S<br/>R<br/>I<br/>O<br/>V<br/>Q<br/>A<br/>T<br/>R<br/>O<br/>O<br/>K</div></div> |                                                                                                                                                                                              |  |  |  |  |
|           |                                  | KUD without any offline support                                                                      |                                                                                                                                                                                              |  |  |  |  |
| Oct. 30th | ICN v.0.2.0                      | BPA controller software spec (BPA Software CR Specs)                                                 | Itohan Ukponmwan                                                                                                                                                                             |  |  |  |  |
|           |                                  | BPA controller cluster                                                                               | <div><div></div><div>1st work is to get the software spec and unit testing</div></div> <div><div></div><div>If it is not possible move the cluster to the next timeline Oct 15th</div></div> |  |  |  |  |
|           | Sprint 3: Sept. 2nd              |                                                                                                      |                                                                                                                                                                                              |  |  |  |  |
|           | Sprint 4: Sept. 16th             |                                                                                                      |                                                                                                                                                                                              |  |  |  |  |
|           | Sprint 5: Oct. 2nd               |                                                                                                      |                                                                                                                                                                                              |  |  |  |  |
|           | Sprint 6: Oct. 16th              |                                                                                                      |                                                                                                                                                                                              |  |  |  |  |
|           | Sprint 7: Oct. 30th              |                                                                                                      |                                                                                                                                                                                              |  |  |  |  |
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#### Enyinna Ochulor

- Add Unit testing to RESTful API
- Containerizing the ResAPI agent, provide client and server communication
- Add authentication to RESTful API
- Clusterrole, clusterrolebinding and service account
- Expose the RestAPI using Kubernetes Services
  - Expose as the nodeport
- Documentation on the RestAPI
- Possibly Load balancing to next timeline 15th

| Epic                                                                                                                                                              | JIRA Story                                                                                                                                                                        | Sprint/Estimated Completion Date | Status/Actual Completion Date | Notes                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|-----------------------------------------|
|  <b>ICN-4</b> - Binary provisioning Agent RestAPI agent <span>IN PROGRESS</span> |  <b>ICN-60</b> - Sample golang Unit test for ICN <span>DONE</span>                               | Sprint 3                         | Sprint 3                      |                                         |
|                                                                                                                                                                   |  <b>ICN-16</b> - Achieve 35% unit test coverage for ICN RESTful API (image.go) <span>DONE</span> | Sprint 5                         | Sprint 6                      |                                         |
|                                                                                                                                                                   |  <b>ICN-61</b> - Investigation on the Containerization of RestAPI <span>DONE</span>              | Sprint 4                         | Sprint 4                      |                                         |
|                                                                                                                                                                   |  <b>ICN-76</b> - Add authentication to RESTful API <span>DONE</span>                             | Sprint 4                         | Sprint 4                      |                                         |
|                                                                                                                                                                   |  <b>ICN-77</b> - Clusterrole, clusterrolebinding and service account <span>DONE</span>           | Sprint 5                         | Sprint 5                      |                                         |
|                                                                                                                                                                   |  <b>ICN-78</b> - Expose the RestAPI using Kubernetes Services <span>DONE</span>                  | Sprint 5                         | Sprint 5                      |                                         |
|                                                                                                                                                                   |  <b>ICN-79</b> - Documentation on the RestAPI <span>DONE</span>                                  | Sprint 4                         | Sprint 4                      |                                         |
|                                                                                                                                                                   |  <b>ICN-112</b> - Investigate load balancing the ICN RESTful api service <span>DONE</span>       | Sprint 5                         | Sprint 5                      |                                         |
|                                                                                                                                                                   |  <b>ICN-146</b> - Ramp up on CPU Manager for Kubernetes <span>DONE</span>                        | Sprint 6                         | Sprint 6                      |                                         |
|                                                                                                                                                                   |  <b>ICN-147</b> - Ramp up on Helm Charts and SDWAN <span>DONE</span>                           | Sprint 6                         | Sprint 6                      | SDWAN CNF dependency. Moved to backlog. |
|                                                                                                                                                                   |  <b>ICN-152</b> - Bug Fix (Unit Tests) <span>DONE</span>                                       | Sprint 6                         | Sprint 6                      |                                         |
|                                                                                                                                                                   |  <b>ICN-164</b> - BPA RESTful API End To End Testing <span>DONE</span>                         | Sprint 7                         |                               |                                         |
|                                                                                                                                                                   |  <b>ICN-165</b> - BPA Code Refactoring (unit testing) <span>DONE</span>                        | Sprint 7                         |                               |                                         |
|                                                                                                                                                                   |  <b>ICN-166</b> - Documentation on the RestAPI <span>DONE</span>                               | Sprint 7                         |                               |                                         |

#### Tingjie Chen

- Finished the MiniO Client plugin, and follow up the PR for bug fixes and reviews
- Running Mimio in Kubernetes cluster
- Documentation for the Mimio in wiki to run in Kubernetes cluster
- Investigate the storage backend solution for HTTP Server
- Reliable volume for MioIO server export
- Local controllers federation for MiniO deployment

| Epic | JIRA Story                                                                                                                                                                                     | Sprint<br>/Estimated<br>Completion<br>Date | Status<br>/Actual<br>Completion<br>Date | Notes                                                                                                                                                                                                                                                                                   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |  <a href="#">ICN-26</a> - RestAPI Client code integration with Minio <span>DONE</span>                        | Sprint 3                                   | Sprint 3                                |                                                                                                                                                                                                                                                                                         |
|      |  <a href="#">ICN-30</a> - Documentation work for Minio and Rooks <span>DONE</span>                            | Sprint 3                                   | Sprint 3                                |                                                                                                                                                                                                                                                                                         |
|      |  <a href="#">ICN-93</a> - Follow up the PR for bug fixes and reviews <span>DONE</span>                        | Sprint 4                                   | Sprint 4                                | Done and finished.                                                                                                                                                                                                                                                                      |
|      |  <a href="#">ICN-93</a> - Running Mimio in Kubernetes cluster <span>DONE</span>                               | Sprint 4                                   | Sprint 4                                | Finished running standalone MinIO on Kubernetes environment, file patch: <a href="https://gerrit.akraino.org/r/#/c/icn/+1587/">https://gerrit.akraino.org/r/#/c/icn/+1587/</a>                                                                                                          |
|      |  <a href="#">ICN-94</a> - Documentation for the Mimio in wiki to run in Kubernetes cluster <span>DONE</span>  | Sprint 4                                   | Sprint 4                                | Create Wiki for Cloud storage for Local controller: <a href="#">Cloud Storage</a>                                                                                                                                                                                                       |
|      |  <a href="#">ICN-100</a> - Investigate the storage backend solution for HTTP server <span>DONE</span>         | Sprint 4                                   | Sprint 4                                | The Minio deployment with K8s has include the local storage volume and can provision to http server: <a href="https://gerrit.akraino.org/r/#/c/icn/+1587/">https://gerrit.akraino.org/r/#/c/icn/+1587/</a><br><br>PVC: minio-local-claim<br><br>folder to mount with volume: /mnt/minio |
|      |  <a href="#">ICN-110</a> - Investigate the reliable volume for MinIO Server deployment <span>DONE</span>      | Sprint 7                                   | Sprint 7                                | Reliable volume for MinIO server export, file patch: <a href="https://gerrit.akraino.org/r/#/c/icn/+1823/">https://gerrit.akraino.org/r/#/c/icn/+1823/</a> in review                                                                                                                    |
|      |  <a href="#">ICN-120</a> - Investigate MinIO Server federation for Global controller <span>IN PROGRESS</span> | Sprint 7                                   | NA                                      | Local controllers federation for MinIO deployment, which aim to remote clone, which will postpone to next release.                                                                                                                                                                      |
|      |  <a href="#">ICN-139</a> - MinIO file upload from original source <span>TO DO</span>                          | Sprint 7                                   | NA                                      | This for enhancement feature will postpone to next release.                                                                                                                                                                                                                             |
|      |  <a href="#">ICN-167</a> - E2E test support for MinIO Cloud storage <span>DONE</span>                         | Sprint 7                                   | Sprint 7                                | Sync with Enyinna for E2E test for MinIO cloud storage for REST API Agent, create patch: <a href="https://gerrit.akraino.org/r/#/c/icn/+1839/">https://gerrit.akraino.org/r/#/c/icn/+1839/</a> and try to integrate, and update icn: 1753 to resolve E2E issues.                        |
|      |  <a href="#">ICN-160</a> - Document for MinIO E2E for REST API Agent <span>DONE</span>                        | Sprint 8                                   |                                         | Describe the mechanism to check the object size in MinIO server.                                                                                                                                                                                                                        |
|      |  <a href="#">ICN-193</a> - Support for BM e2e testing <span>DONE</span>                                      | Sprint 8                                   |                                         | Add the uninstall.sh to clean up the MinIO kubernetes resources to support clean in bare metal, and debug issues for Jenkins with CI/CD.                                                                                                                                                |

OpenWRT initial code for SDWAN with Intel QAT card

Huifeng Le

- Presentation on the OPENWRT working
- SDWAN configuration in OpenWRT
- Working module with SDWAN
- Containerizing the SWAN working module and creating rbac tor run on ICN

Including QAT is moved to Oct 15th timeline

| Epic                                                                                                                                          | JIRA Story                                                                                                                                                   | Sprint /Estimated Completion Date | Status /Actual Completion Date | Notes                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>ICN-40</b> - SDWAN for ICN R2 release <span>TO DO</span> |  <b>ICN-41</b> - Investigation on OpenWRT <span>DONE</span>                 | Sprint3                           | Sprint3                        |                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                               |  <b>ICN-64</b> - Documentation on OpenWRT for Eng meeting <span>DONE</span> | Sprint3                           | Sprint3                        | Wiki: <a href="#">ICN - SDEWAN</a>                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                               |  <b>ICN-96</b> - POC to Setup SDWAN CNF <span>DONE</span>                   | Sprint4                           | Sprint5                        | Blocked in ubus issue when install mwan3 application, reported in openwrt forum for comments: <a href="https://forum.openwrt.org/t/run-openwrt-as-container-failed-to-connect-to-ubus/44345">https://forum.openwrt.org/t/run-openwrt-as-container-failed-to-connect-to-ubus/44345</a><br><br>Contact uCPE team for support<br><br>Manually enable OpenWRT service as workaround |
|                                                                                                                                               |  <b>ICN-97</b> - Restful API for SDWAN module <span>DONE</span>             | Sprint4                           | Sprint5                        | Updated OpenWRT restful API support at <a href="#">ICN - SDEWAN</a>                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                               |  <b>ICN-103</b> - SDWAN CNF <span>DONE</span>                               | Sprint5                           | Sprint5                        |                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                               |  <b>ICN-113</b> - Enable MWAN3 app in SDWAN CNF <span>DONE</span>           | Sprint5                           | Sprint5                        |                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                               |  <b>ICN-116</b> - Ramp up lua CGI plugin for OpenWRT <span>DONE</span>      | Sprint6                           | Sprint7                        |                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                               |  <b>ICN-163</b> - Enable SDWAN test scenarios <span>DONE</span>             | Sprint7                           | Sprint7                        |                                                                                                                                                                                                                                                                                                                                                                                 |

ONAP in local infra controller

[Kuralamudhan Ramakrishnan](#)

- Task is to get the ONAP in the local infra controller with multicloud
- Running Multiple cluster though bootstrap machine with KUD
- Running workload ngnix helm chart in Multicloud region
- After Sept 15th have SDWAN Helm chart as well
- KUD offline will be covered

| Epic                                                                                                                                                               | JIRA Story                                                                                                                                                                 | Sprint/Estimated Completion Date | Status/Actual Completion Date | Notes |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|-------|
|  <b>ICN-121</b> - ONAP4K8s in ICN <span>TO DO</span>                              |  <b>ICN-53</b> - Getting ONAP setup in Infra local controller - Phase 1 <span>DONE</span> | Sprint 3                         | Sprint 3                      |       |
|  <b>ICN-5</b> - Kud for ICN <span>TO DO</span>                                    |  <b>ICN-52</b> - Multi cluster support in ICN stack with KUD <span>DONE</span>            | Sprint 3                         | Sprint 3                      |       |
|  <b>ICN-121</b> - ONAP4K8s in ICN <span>TO DO</span>                              |  <b>ICN-24</b> - ONAP Investigation in Infra global controller <span>DONE</span>          | Sprint 3                         | Sprint 3                      |       |
|  <b>ICN-3</b> - Binary provisioning Agent controller <span>IN PROGRESS</span>     |  <b>ICN-85</b> - ICN code refactoring <span>DONE</span>                                   | Sprint 4                         | Sprint 4                      |       |
|  <b>ICN-5</b> - Kud for ICN <span>TO DO</span>                                    |  <b>ICN-84</b> - Containerized the KUD for the multi-cluster support <span>DONE</span>    | Sprint 4                         | Sprint 4                      |       |
|  <b>ICN-121</b> - ONAP4K8s in ICN <span>TO DO</span>                              |  <b>ICN-92</b> - Getting ONAP setup in Infra local controller - Phase 2 <span>DONE</span> | Sprint 5                         | Sprint 5                      |       |
|  <b>ICN-5</b> - Kud for ICN <span>TO DO</span>                                    |  <b>ICN-122</b> - ICN v0.2.0 testing and integration <span>DONE</span>                    | Sprint 5                         | Sprint 5                      |       |
|  <b>ICN-121</b> - ONAP4K8s in ICN <span>TO DO</span>                              |  <b>ICN-54</b> - Automation script for ONAP integration in ICN stack <span>DONE</span>    | Sprint 5                         | Sprint 5                      |       |
|  <b>ICN-1</b> - Metal3 Baremetal Operator in ICN Stack <span>IN PROGRESS</span>   |  <b>ICN-136</b> - Metal3 CI integration <span>DONE</span>                                 | Sprint 5                         | Sprint 5                      |       |
|  <b>ICN-5</b> - Kud for ICN <span>TO DO</span>                                   |  <b>ICN-156</b> - ONAP4K8s in ICN <span>DONE</span>                                      | Sprint 6                         | Sprint 6                      |       |
|  <b>ICN-5</b> - Kud for ICN <span>TO DO</span>                                  |  <b>ICN-154</b> - KUD containerized PR <span>DONE</span>                                | Sprint 6                         | Sprint 6                      |       |
|  <b>ICN-5</b> - Kud for ICN <span>TO DO</span>                                  |  <b>ICN-153</b> - DCM design presentation <span>DONE</span>                             | Sprint 6                         | Sprint 6                      |       |
|  <b>ICN-61</b> - ICN CI / CD works <span>TO DO</span>                           |  <b>ICN-156</b> - ICN e2e <span>DONE</span>                                             | Sprint 7                         | Sprint 7                      |       |
|  <b>ICN-61</b> - ICN CI / CD works <span>TO DO</span>                           |  <b>ICN-157</b> - ICN documentation <span>DONE</span>                                   | Sprint 7                         | Sprint 7                      |       |
|  <b>ICN-61</b> - ICN CI / CD works <span>TO DO</span>                           |  <b>ICN-176</b> - ICN Release R2 works <span>DONE</span>                                | Sprint 8                         |                               |       |
|  <b>ICN-61</b> - ICN CI / CD works <span>TO DO</span>                           |  <b>ICN-177</b> - Edgex Foundry testing with ICN CD <span>DONE</span>                   | Sprint 8                         |                               |       |
|  <b>ICN-1</b> - Metal3 Baremetal Operator in ICN Stack <span>IN PROGRESS</span> |  <b>ICN-179</b> - Optimization in ICN installer scripts <span>DONE</span>               | Sprint 8                         |                               |       |
|  <b>ICN-178</b> - ICN SDL works <span>DONE</span>                               |  <b>ICN-178</b> - ICN SDL works <span>DONE</span>                                       | Sprint 8                         |                               |       |

Baremetal VM with  
BPA controller  
Provisioning

[ramamani yeleswarapu](#)

- Get the baremetal server in lab with ICN baremetal operator script
- Using KuD install K8s and Virtlet, get the VM created
- BPA controller get the IP address from the Virtlet running on the K8s compute cluster
- Generate hosts.ini for K8s cluster on VMs
- Deploy testing of K8s on VM cluster
- Checking the Redfish support in metal3

| Epic                                                                                                                                                                | JIRA Story                                                                                                                                                                                    | Sprint<br>/Estimated<br>Completion<br>Date | Status/Actual<br>Completion<br>Date | Notes                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------|---------------------------------------------------------|
|  <b>ICN-1</b> - Metal3 Baremetal Operator in ICN Stack<br><span>IN PROGRESS</span> |  <b>ICN-43</b> - Development lab set up with ICN scripts <span>DONE</span>                                   | Sprint 3                                   | Sprint 3                            |                                                         |
|                                                                                                                                                                     |  <b>ICN-44</b> - Getting Virtlet running in the Compute node <span>DONE</span>                               | Sprint 3                                   | Sprint 3                            |                                                         |
|                                                                                                                                                                     |  <b>ICN-68</b> - Install K8s cluster on Virtlet VMs <span>DONE</span>                                        | Sprint 3                                   | Sprint 3                            | Added #101 to the backlog to debug pod networking issue |
|                                                                                                                                                                     |  <b>ICN-86</b> - Getting Itohan code for the BPA controller <span>DONE</span>                                | Sprint 4                                   | Sprint 4                            |                                                         |
|                                                                                                                                                                     |  <b>ICN-87</b> - Getting list api for the Virtlet VM resource <span>DONE</span>                              | Sprint 4                                   | Sprint 4                            | #87 and #88 have been tested in independent code.       |
|                                                                                                                                                                     |  <b>ICN-88</b> - Automate hosts.ini file from the BPA controller for KUD multi-cluster <span>DONE</span>     | Sprint 4                                   | Sprint 4                            |                                                         |
|                                                                                                                                                                     |  <b>ICN-101</b> - Pod network issues on K8s Cluster deployed on Virtlet VMs <span>DONE</span>                | Sprint 4                                   | Sprint 4                            |                                                         |
|                                                                                                                                                                     |  <b>ICN-123</b> - List VMs using 'mac address' and cluster vm label and get IP addresses <span>DONE</span>   | Sprint 5                                   | Sprint 5                            |                                                         |
|                                                                                                                                                                     |  <b>ICN-125</b> - Create hosts.ini for VM deployment <span>DONE</span>                                       | Sprint 5                                   | Sprint 5                            |                                                         |
|                                                                                                                                                                     |  <b>ICN-126</b> - Launch KuD on Virtlet VMs from autogenerated hosts.ini <span>DONE</span>                   | Sprint 6                                   | Sprint 6                            |                                                         |
|                                                                                                                                                                     |  <b>ICN-148</b> - Code integration for Virtlet VM support in BPA provisioning controller <span>DONE</span> | Sprint 6                                   | Sprint 6                            |                                                         |
|                                                                                                                                                                     |  <b>ICN-151</b> - Document Virtlet VM Provisioning in BPA <span>DONE</span>                                | Sprint 7/8                                 | Sprint 7/8                          |                                                         |
|                                                                                                                                                                     |  <b>ICN-160</b> - Unit testing for Virtlet VM provisioning <span>DONE</span>                               | Sprint 7/8                                 |                                     |                                                         |
|                                                                                                                                                                     |  <b>ICN-161</b> - Test/debug issues of Virtlet VM provisioning in BPA <span>DONE</span>                    | Sprint 7                                   | Sprint 7                            |                                                         |
|                                                                                                                                                                     |                                                                                                                                                                                               |                                            |                                     |                                                         |

CI/CD integration with checkmarx, Akraino recommended tools

Cheng Li

CI/CD

- Jenkins jobs for the all build - 1st Priority
- Load balancing and Fatal fail over mechanism
- Docker repo for ICN - How to use the Intel repo
- Integration CI Travis, Sonar, (AR Kural: Check Akraino code analysis tools)

| Epic | JIRA Story                                                                                                                                                                                                                                | Sprint /Estimated Completion Date | Status /Actual Completion Date | Notes                                                                                                                                                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |  <b>ICN-62</b> - Documenting ICN CI /CD process in wiki page            | Sprint 3                          | Sprint 3                       |                                                                                                                                                                                                                                                                                                                                                       |
|      |  <b>ICN-63</b> - Lab set up for jenkins server                          | Sprint 4                          | Sprint 5                       | LinuxFoundation will not create the gerrit account which fits our requirement (Gerrit-Trigger plugin requirement). I has replied the ticket to ask if any other way for integration.<br><a href="https://jira.linuxfoundation.org/servicedesk/customer/portal/2/IT-17441">https://jira.linuxfoundation.org/servicedesk/customer/portal/2/IT-17441</a> |
|      |  <b>ICN-65</b> - Jenkins job scripts - Phase 1                          | Sprint 4                          | Sprint 5                       |                                                                                                                                                                                                                                                                                                                                                       |
|      |  <b>ICN-66</b> - Jenkins job scripts - Phase 2                          | Sprint 5                          | Sprint8                        | <del>No CI code change. Need to remind the guys who work on metal2 to fix issue if the CI doesn't pass.</del><br><br>Plan changes, we are using Akraino community Jenkins. Need to create jenkins job by following community rule. working on this task...                                                                                            |
|      | <div> <b>ICN-114</b> - Jira<br/>project doesn't exist<br/><br/>or you don't have<br/><br/>permission to view it.</div>                                   | Sprint6                           | no need anymore                | will not do this one                                                                                                                                                                                                                                                                                                                                  |
|      |  <b>ICN-118</b> - Jenkins Multiple nodes support                       | Sprint6                           | Sprint6                        |                                                                                                                                                                                                                                                                                                                                                       |
|      |  <b>ICN-182</b> - Jenkins job for pod 11 Jump server                | Sprint8                           | Sprint8                        |                                                                                                                                                                                                                                                                                                                                                       |
|      |  <b>ICN-183</b> - Jenkins job for PRC server with QAT and NIC card  | Sprint8                           | Sprint8                        |                                                                                                                                                                                                                                                                                                                                                       |

Oct 15th

- All PRs will go through Checkmarx, Akraino recommend tools for unit testing and code inspection

Akhila Kishore

- **Ansible playbooks for KuD online - Sept 18**
  - Multus - Done
  - Virtlet - Ritu/ Akhila/ Kural should have a conversation on it. Installer + Daemonset (Manage URL for offline)
  - NFD - Done
  - ISTIO - Already Daemonset in KuD. ( Manage URLs for offline mode)
  - OVN4NFV - Ritu Installer + daemonset Done
  - OVN Installer + daemonset (Users APT not Daemonsets) Done
- Update the version of Kubespray on KuD online.

**Timeline Oct 18 - KuD online**

- SRIOV Installer + daemonset moving this to Sept
  - Ramp up on SRIOV
    - Get lab setup POD with SRIOV capable NIC
  - Installer script for SRIOV
  - Run DaemonSets
  - Test on independent SRIOV capable machine with KuD
- Integrate CPU manager for Kubernetes with KuD - Taking over by Enyinna
  - Ramp-up CPU manager
  - Create Ansible script to integrate CPU manager with KuD
  - Generating test cases
- QAT Installer + daemonset
  - Ramp up on QAT
  - Procure SRIOV + QAT capable machine - If possible by Oct -18. **Moved to November release.**
  - Generate install script with KuD
  - Run DaemonSet yaml
  - Test cases

| Epic                                                                                                                                              | JIRA Story                                                                                                                                                                                    | Sprint /Estimated Completion Date | Status /Actual Completion Date | Notes                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>ICN-6</b> - KuD V2.0 Addons for ICN <span>IN PROGRESS</span> |  <b>ICN-46</b> - Ansible playbook for Multus with KuD <span>DONE</span>                                      | Sprint 3                          | Sprint 3                       |                                                                                                                                                                        |
|                                                                                                                                                   |  <b>ICN-47</b> - Ansible playbook for NFD daemonset in KUD with testing <span>DONE</span>                    | Sprint 3                          | Sprint 3                       |                                                                                                                                                                        |
|                                                                                                                                                   |  <b>ICN-20</b> - Update the version of Kubespray in KuD live <span>DONE</span>                               | Sprint 3                          | Sprint 3                       |                                                                                                                                                                        |
|                                                                                                                                                   |  <b>ICN-80</b> - Ramp up on SRIOV <span>DONE</span>                                                          | Sprint 4                          | Sprint 4                       |                                                                                                                                                                        |
|                                                                                                                                                   |  <b>ICN-81</b> - NFD Daemonset reviews <span>DONE</span>                                                     | Sprint 4                          | Sprint 4                       |                                                                                                                                                                        |
|                                                                                                                                                   |  <b>ICN-83</b> - Ansible playbook to install SRIOV drivers on KuD <span>DONE</span>                          | Sprint 5                          | Sprint 5                       | In progress; 80% done. requested Kural for Machine with correct NIC card in OPNFV POD. Received credentials to Huiheng's testing machine temporarily for SRIOV ramp-up |
|                                                                                                                                                   |  <b>ICN-116</b> - Integrating SRIOV Daemonset with KuD online <span>DONE</span>                              | Sprint 5                          | Sprint 5                       |                                                                                                                                                                        |
|                                                                                                                                                   |  <b>ICN-117</b> - Testing SRIOV <span>DONE</span>                                                            | Sprint 5                          | Sprint 5                       |                                                                                                                                                                        |
|                                                                                                                                                   |  <b>ICN-134</b> - KuD offline support assist <span>TO DO</span>                                              | Sprint 6                          | Dropped for this release       |                                                                                                                                                                        |
|                                                                                                                                                   |  <b>ICN-137</b> - Ramp up QAT Device plugin project to integrate with KuD <span>DONE</span>                  | Sprint 6                          | Sprint 6                       |                                                                                                                                                                        |
|                                                                                                                                                   |  <b>ICN-140</b> - SRIOV reviews <span>DONE</span>                                                            | Sprint 6                          | Sprint 7                       | In progress 50% complete                                                                                                                                               |
|                                                                                                                                                   |  <b>ICN-160</b> - CI test for KuD add ons <span>DONE</span>                                                | Sprint 7                          | Sprint 7                       | Start date 10-23                                                                                                                                                       |
|                                                                                                                                                   |  <b>ICN-170</b> - Installer script runs the KuD test cases before the pods are fully up. <span>DONE</span> | Sprint 7                          | Sprint 7                       |                                                                                                                                                                        |
|                                                                                                                                                   |  <b>ICN-171</b> - Architecture documentation for KuD. <span>DONE</span>                                    | Sprint 7                          | Sprint 7                       |                                                                                                                                                                        |
|                                                                                                                                                   |  <b>ICN-173</b> - Testing Documentation for add-ons <span>DONE</span>                                      | Sprint 7/8                        | Sprint 7/8                     | In progress.                                                                                                                                                           |
|                                                                                                                                                   |  <b>ICN-184</b> - Update SRIOV playbook to match the new device requirements <span>DONE</span>             | Sprint 8                          | Sprint 8                       | awaiting reviews                                                                                                                                                       |

Huang Haibin

- Get offline with Apt local repo, https servers, Docker registry
- Offline ansible-playbook(KuD Vars)
- Kural AR: Add Haibin to the OPNFV pod.

| Epic | JIRA Story                                                                                                                                                                               | Sprint/Estimated Completion Date | Status/Actual Completion Date | Notes                              |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|------------------------------------|
|      |  <b>ICN-42</b> - Test the Kubespray 2.10.4 and Kube version v1.14.3<br><small>DONE</small>              | Sprint 3                         | Sprint3                       |                                    |
|      |  <b>ICN-59</b> - Script for offline ICN bootstrap Http Server <small>DONE</small>                       | Sprint 4                         | Sprint4                       |                                    |
|      |  <b>ICN-106</b> - Running Http server in container <small>DONE</small>                                  | Sprint4                          | Sprint4                       |                                    |
|      |  <b>ICN-60</b> - Script for offline Docker registry in boot strap machine<br><small>IN PROGRESS</small> |                                  |                               | Lower offline script work priority |
|      |  <b>ICN-99</b> - Follow up for bug fix and changes for the HTTP Server PR <small>IN PROGRESS</small>    |                                  |                               | Lower offline script work priority |
|      |  <b>ICN-138</b> - Running Docker Registry in container <small>TO DO</small>                             |                                  |                               | Lower offline script work priority |
|      |  <b>ICN-162</b> - QAT Kernel deployment <small>IN PROGRESS</small>                                      | Sprint 7                         | Sprint 7                      |                                    |

Igor Duarte Cardoso

- Ramp on the golang
- Ramp on K8s - Kubeadm setup
- Controller, Operator SDK ramp
- Get the already running Tenant controller
- Documentation and presentation on the proposal in ICN wiki page
- Including the tenant resource quota for ICN

| Epic                                                                                                                                        | Story                                                                                                                                                               | Sprint/Estimated Completion Date | Status/Actual Completion Date | Notes |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|-------|
|  <b>ICN-104</b> - ICN Multi tenancy<br><small>DONE</small> |  <b>ICN-56</b> - Getting K8s setup with Kubeadm<br><small>DONE</small>             | Sprint 4                         | Sprint 4                      |       |
|                                                                                                                                             |  <b>ICN-67</b> - Running Sample Controller <small>DONE</small>                   | Sprint 4                         | Sprint 4                      |       |
|                                                                                                                                             |  <b>ICN-98</b> - Ramp on the Multi-tenancy proposal<br><small>DONE</small>       | Sprint 4                         | Sprint 4                      |       |
|                                                                                                                                             |  <b>ICN-132</b> - Ramp-up on multi-tenancy kubernetes-sig<br><small>DONE</small> | Sprint 5                         | Sprint 5                      |       |

Dashboard

John Hinman

- Ramp on the golang
- build Dashboard, log on
- connect remotely
- determine whether dashboard allows control of baremetal node CRs
- add baremetal CR interface, if not already present
- Launch Ironic CR with dummy setup
- Add Documentation pages to wiki for Installation, Architecture

| Epic                                                                                                                                                  | Story                                                                                                                                                                                | Sprint/Estimated Completion Date | Status/Actual Completion Date | Notes |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|-------|
|  <b>ICN-70</b> - Akraino ICN Dash board <small>IN PROGRESS</small> |  <b>ICN-88</b> - Modified the Kube dashboard for Bootstrap cluster <small>DONE</small>            | Sprint 5                         |                               |       |
|                                                                                                                                                       |  <b>ICN-98</b> - Golang rampup <small>DONE</small>                                                | Sprint 4                         |                               |       |
|                                                                                                                                                       |  <b>ICN-93</b> - Launch the Ironic CR with dummy setup with local k8s cluster <small>DONE</small> | Sprint 5                         |                               |       |
|                                                                                                                                                       |  <b>ICN-160</b> - wiki Documentation <small>DONE</small>                                          | Sprint 7                         |                               |       |