

# ICN R4 Timeline

## Goals

- EMCO V2
- SD-EWAN Controller
- SFC in OVN4NFV
- ICN Readiness
- ICN Maturity

## JIRA TRACKER

	Release /Tag	Features	Plan/Status Tracking (Please update your JIRAs and note any issues/road blocks with date stamp)																																																																																																													
		<div>• EMCO DCM</div>	<div>Igor Duarte Cardoso</div> <div>DCM v1 (see in ONAP)</div> <table><tr><th>Epic</th><th>JIRA Story</th><th>Sprint/Estimated Completion</th><th>Status/Actual Completion</th><th>Notes</th></tr><tr><td><div><div>🔗</div><div>ICN-344 - DCM dev works</div><div>DONE</div></div></td><td><div><div>A</div><div>ICN-376 - DCM re-ramp on Itohan's docs</div><div>DONE</div></div></td><td>Sprint 21</td><td>Sprint 21</td><td></td></tr><tr><td></td><td><div><div>A</div><div>ICN-386 - Install Istio for replicated control planes</div><div>DONE</div></div></td><td>Sprint 21</td><td>Sprint 21</td><td></td></tr><tr><td></td><td><div><div>A</div><div>ICN-387 - Run apply.go and API testing scripts</div><div>DONE</div></div></td><td>Sprint 22</td><td>Sprint 22</td><td></td></tr><tr><td></td><td><div><div>A</div><div>ICN-384 - Evaluate apply.go implementation</div><div>DONE</div></div></td><td>Sprint 22</td><td>Sprint 22</td><td></td></tr><tr><td></td><td><div><div>A</div><div>ICN-408 - 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	<div>  <b>ICN-432</b> - Switch from /resource to /subresources         <div>DONE</div> </div>	Sprint 25	Sprint 25	
	<div>  <b>ICN-443</b> - Add subresource-level order/dependency logic         <div>DONE</div> </div>	Sprint 25	Sprint 25	
	<div>  <b>ICN-444</b> - Implement CSR monitor controller         <div>DONE</div> </div>	Sprint 25	Sprint 25	
	<div>  <b>ICN-442</b> - Improve wiki doc regarding DCM         <div>DONE</div> </div>	Sprint 25	Sprint 25	
	<div>  <b>ICN-464</b> - Fix breaking CI issue         <div>DONE</div> </div>	Sprint 26	Sprint 26	
	<div>  <b>ICN-462</b> - Fix terminate issue on rsync         <div>DONE</div> </div>	Sprint 26	Sprint 26	
	<div>  <b>ICN-463</b> - Split patches and refactor/fix         <div>DONE</div> </div>	Sprint 26	Sprint 27	
	<div>  <b>ICN-464</b> - Test DCM end-to-end         <div>DONE</div> </div>	Sprint 27	Sprint 27	
	<div>  <b>ICN-465</b> - Associate logical clouds to projects         <div>DONE</div> </div>	Sprint 27	Sprint 27	
	<div>  <b>ICN-466</b> - Reimplement Terminate operation as async         <div>DONE</div> </div>	Sprint 27	Sprint 27	
	<div>  <b>ICN-467</b> - Improve DCM OpenAPI with missing schema fields         <div>DONE</div> </div>	Sprint 27	Sprint 27	
	<div>  <b>ICN-468</b> - Resource quota validation         <div>DONE</div> </div>	Sprint 27	Now tracked in EMCO	
	<div>  <b>ICN-469</b> - Improve logging         <div>DONE</div> </div>	Sprint 27	Sprint 27	
	<div>  <b>ICN-479</b> - Refactor calls to DeleteCompositeApp         <div>DONE</div> </div>	Sprint 27	Sprint 27	
	<div>  <b>ICN-474</b> - Final refactoring         <div>DONE</div> </div>	Sprint 27	Now tracked in EMCO	
	<div>  <b>ICN-472</b> - Update deployment file to include DCM         <div>DONE</div> </div>	Sprint 27	Sprint 27	
	<div>  <b>ICN-473</b> - Update helm chart to include DCM         <div>DONE</div> </div>	Sprint 27	Sprint 27	
	<div>  <b>ICN-489</b> - Integrate EMCO DCM in ICN         <div>TO DO</div> </div>	Sprint 30+		not started



<b>ICN-61</b> - ICN CI / CD works <span>TO DO</span>	<b>ICN-478</b> - ICN SDL works <span>DONE</span>	Sprint 9	Sprint 9	
<b>ICN-1</b> - Metal3 Baremetal Operator in ICN Stack <span>IN PROGRESS</span>	<b>IGN-199</b> - Metal3 Refactoring & ICN R2 bug Fixes - OS and user data <span>DONE</span>	Sprint 9	Sprint 11	
<b>ICN-344</b> - DCM dev works <span>DONE</span>	<b>IGN-192</b> - DCM lighting talk - API & Design development <span>DONE</span>	Sprint 9	Sprint 9	
<b>ICN-191</b> - Integration OpenNESS with ICN <span>TO DO</span>	<b>ICN-494</b> - Openness & SDWAN Lighting talks - API & design prep <span>DONE</span>	Sprint 9	Sprint 9	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-238</b> - Ramp up on OVN4NFV and running the patches <span>DONE</span>	Sprint 11	Sprint 11	
<b>ICN-238</b> - Ramp up on OVN4NFV and running the patches <span>DONE</span>	<b>ICN-267</b> - ICN script updates <span>DONE</span>	Sprint 11	Sprint 11	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-260</b> - OVN containerization <span>DONE</span>	Sprint 12	Sprint 12	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>IGN-269</b> - Adding OVN4K8s in Kubespray <span>DONE</span>	Sprint 14/15/16/17	Sprint 17	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-264</b> - Making OVN4NFV as the primary network <span>DONE</span>	Sprint 12/13	Sprint 13	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-293</b> - Refactoring OVN coding for OVN containerization daemonset <span>DONE</span>	Sprint 13/14	Sprint 13/14	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>IGN-344</b> - Introducing Provider Network Direct type <span>DONE</span>	Sprint 14	Sprint 14	
<b>ICN-1</b> - Metal3 Baremetal Operator in ICN Stack <span>IN PROGRESS</span>	<b>IGN-324</b> - Bug fixes & Testing for ICN Baremetal Operator version <span>DONE</span>	Sprint 14	Sprint 14	
<b>ICN-1</b> - Metal3 Baremetal Operator in ICN Stack <span>IN PROGRESS</span>	<b>IGN-349</b> - Fix the ICN baremetal operator version <span>DONE</span>	Sprint 14	Sprint 14	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>IGN-322</b> - Bug fixes for the OVN4NFV-K8s plugin primary routing issues <span>DONE</span>	Sprint 15	Sprint 15	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-346</b> - Akraino ICN installation issue on baremetal server #ICN <span>DONE</span>	Sprint 15	Sprint 15	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-330</b> - CNI Server development in ONAP4K8s <span>DONE</span>	Sprint 16	Sprint 16	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-334</b> - CNI shim development in ONAP4K8s <span>DONE</span>	Sprint 16	Sprint 16	
<b>ICN-189</b> - ICN CI/CD <span>TO DO</span>	<b>ICN-364</b> - ICN BM and VM installer script improvement <span>DONE</span>	Sprint 17	Sprint 17	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-343</b> - Post review patches for OVN4NFV <span>DONE</span>	Sprint 20/21	Sprint 21	
<b>ICN-189</b> - ICN CI/CD <span>TO DO</span>	<b>ICN-340</b> - Documentation and patch review for ICN Release <span>DONE</span>	Sprint 18/19/20	Sprint 21	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-368</b> - Post review for Kubespray <span>DONE</span>	Sprint 20/21	Sprint 21	
<b>ICN-189</b> - ICN CI/CD <span>TO DO</span>	<b>ICN-360</b> - Code review and CI/CD Testing <span>DONE</span>	Sprint 18/19	Sprint 19	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>IGN-409</b> - Unit testing in OVN4NFV CNI <span>DONE</span>	Sprint 24/25/26	Sprint 26	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-406</b> - OVN4NFV Kubespray with Centos 7 <span>DONE</span>	Sprint 24/25/26	Sprint 26	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-404</b> - OVN4NFV Service Function Chaining development <span>DONE</span>	Sprint 22	sprint 22	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>IGN-405</b> - EMCO and SFC demo preparation <span>DONE</span>	Sprint 22	sprint 22	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>IGN-445</b> - Dev. rebased OVN4NFV SFC development with Kubespray <span>DONE</span>	Sprint 23	Sprint 23	

<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-446</b> - Test rebased OVN4NFV SFC Development with Kubespray <span>DONE</span>	Sprint 23	Sprint 23	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-436</b> - SFC Demo <span>DONE</span>	Sprint 24	Sprint 24	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-434</b> - ICN SDL works <span>DONE</span>	Sprint 29/30	Sprint 30	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-436</b> - SRIOV and SFC chaining CR proposal <span>DONE</span>	Sprint 24/25	Sprint 25	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-462</b> - Ramp up on OVN with VLAN and OVN Load balancer <span>DONE</span>	Sprint 28/29	Sprint 29	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-450</b> - Creating OVN ACL based Network policy PoC <span>DONE</span>	Sprint 28/29/30	Sprint 30	
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-460</b> - Network Policy Controller initial PoC work <span>DONE</span>	Sprint 28/29/30	Sprint 30	
<b>ICN-189</b> - ICN CI/CD <span>TO DO</span>	<b>ICN-502</b> - ICN Documentation and release works <span>DONE</span>	Sprint 30/31		
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-505</b> - Network Policy Port Group creating using OVS ACN ACL <span>IN PROGRESS</span>	Sprint 31		
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-506</b> - Construct Egress /Ingress OVN ACL based on the NP Matches <span>IN PROGRESS</span>	Sprint 31		
<b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>	<b>ICN-507</b> - Network Policy Namespace selector and Pod Selector <span>DONE</span>	Sprint 31		




























Cheng Li

Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
<b>ICN-190</b> - E2E usages for SDWAN module in ICN to support multiple cluster communication through security WAN interfaces <span>TO DO</span>	<b>ICN-200</b> - SDEWAN CRD definition <span>DONE</span>	Sprint 9	Sprint 9	
	<b>ICN-210</b> - MWAN3 rule CRD definition <span>DONE</span>	Sprint 9	Sprint 9	
	<b>ICN-206</b> - SDEWAN Operator Framework <span>DONE</span>	Sprint 10/11/12	Sprint 12	
	<b>ICN-260</b> - Firewall CRD definition <span>DONE</span>	Sprint 12	Sprint 12	
	<b>ICN-312</b> - Sdewan CRD re-design <span>DONE</span>	Sprint 13	Sprint14	
	<b>ICN-320</b> - Sdewan controller framework <span>DONE</span>	Sprint14/15	Sprint 17	
	<b>ICN-330</b> - Extract similar logical of CRD controllers <span>DONE</span>	Sprint 17	Sprint 17	Postpone to R3.1
	<b>ICN-360</b> - implement label based permission system, phase one <span>DONE</span>	Sprint 18	Sprint 18	Postpone to R3.1
	<b>ICN-360</b> - implement label based permission system, phase two <span>DONE</span>	Sprint 19	Sprint 19	Postpone to R3.1
	<b>ICN-270</b> - Sdewan firewall controller implementation <span>DONE</span>	Sprint 13	Sprint 19	Postpone to R3.1
	<b>ICN-280</b> - Add Sdewan firewall CRD <span>DONE</span>	Sprint 13	Sprint 19	Postpone to R3.1
	<b>ICN-304</b> - EWAN Firewall CRD /Rest API integration <span>DONE</span>	Sprint 13		Postpone to R3.1
	<b>ICN-313</b> - PoC for integration scenario <span>DONE</span>	Sprint15	Sprint15	
	<b>ICN-314</b> - SDEWAN E2E test scenario integration <span>DONE</span>	Sprint16	Sprint17	

Le Yao

- SD-EWAN CRD definition
- MWAN3 CRD definition
- SD-EWAN operator
  - Framework work
  - Create SD-EWAN CNF based on SD-EWAN CRD

◦ Todo

Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
 <b>ICN-217</b> - KuD R3 Release works <span>IN PROGRESS</span>	 <b>ICN-260</b> - KUD Multi Vagrant 18.04 issue <span>DONE</span>	Sprint 11/12/14/15	Sprint 15	
	 <b>ICN-284</b> - Vagrant vm can not get correct name server in ubuntu-1804. <span>DONE</span>	Sprint 11	Sprint 11	
	 <b>ICN-295</b> - Installer vm cannot install nfs because of nameserver issues. <span>DONE</span>	Sprint 12/14/15	Sprint 15	
	 <b>ICN-286</b> - All other VMs are unreachable for Installer VM <span>DONE</span>	Sprint 12	Sprint 12	
	 <b>ICN-303</b> - Compute01 no spcae left in KUD Multi Vagrant <span>DONE</span>	Sprint 12	Sprint 12	
	 <b>ICN-346</b> - Vagrant Box Build with base Ubuntu-18.04 for ICN <span>DONE</span>	Sprint 13	Sprint 13	
	 <b>ICN-308</b> - Upgrade the Kubespray 2.12 for KUD <span>DONE</span>	Sprint 16/17/18/19	Sprint 19	
	 <b>ICN-327</b> - criproxy failed to start up after node reboot <span>DONE</span>	Sprint 16/17	Sprint 17	
	 <b>ICN-326</b> - Vagrant Virtlet testing not working in proxy testings <span>DONE</span>	Sprint 16	Sprint 16	
	 <b>ICN-327</b> - QAT device plugin deploy issue <span>DONE</span>	Sprint 18/19/20	Sprint 20	
	 <b>ICN-367</b> - KUD CI Folder installer <span>DONE</span>	Sprint 18/19	Sprint 19	
	 <b>ICN-377</b> - Catch the cnf Pod no IP error <span>DONE</span>	Sprint 19	Sprint 19	
	 <b>ICN-378</b> - Add watch function for cnf deployment and CR <span>DONE</span>	Sprint 19	Sprint 19	
	 <b>ICN-399</b> - Apply watch to all controllers and test <span>DONE</span>	Sprint 19	Sprint 19	
	 <b>ICN-354</b> - Fix ICN node reboot issue for the containerized version <span>DONE</span>	Sprint 19/20	Sprint 31	
	 <b>ICN-393</b> - Create CNF helm chart <span>DONE</span>	Sprint 20	Sprint 20	
	 <b>ICN-394</b> - Create helm chart for ICN SDEWAN controller <span>DONE</span>	Sprint 20	Sprint 20	
	 <b>ICN-442</b> - A watch to monitor the service IPs changes <span>DONE</span>	Sprint 22	Sprint 22	
	 <b>ICN-443</b> - A new custom Service controller to hold watch function <span>DONE</span>	Sprint 22	Sprint 22	
	 <b>ICN-439</b> - Implement the service RESTful API <span>DONE</span>	Sprint 24/25/26/27	Sprint 27	
	 <b>ICN-445</b> - Implement the CR for Services <span>DONE</span>	Sprint 26/27	Sprint 27	
	 <b>ICN-446</b> - Change the Firewall restart script to update the iptables NAT rules <span>DONE</span>	Sprint 26/27	Sprint 27	
	 <b>ICN-455</b> - Implement the CR for Application <span>DONE</span>	Sprint 29/30/31	Sprint 31	
	 <b>ICN-494</b> - Implement RESTful API for Application <span>DONE</span>	Sprint 29/30	Sprint 30	
	 <b>ICN-493</b> - Test the network connection PoC with Calico as default network <span>DONE</span>	Sprint 29	Sprint 29	
	 <b>ICN-495</b> - Create the Application network accession PoC for flannel and OVN <span>DONE</span>	Sprint 28	Sprint 28	

		<div><div><div><div><div>ICN-508</div><div>Create Non-root user in CNF</div><div>DONE</div></div></div></div></div>	Sprint 31	Sprint 31	
		<div><div><div><div><div>ICN-509</div><div>Update scripts from helm version v2 to v3</div><div>DONE</div></div></div></div></div>	Sprint 30	Sprint 30	
		<div><div><div><div><div>ICN-510</div><div>CNF configuration and rule change</div><div>DONE</div></div></div></div></div>	Sprint 30	Sprint 30	
		<div><div><div><div><div>ICN-511</div><div>Handle some missing errors and response it</div><div>DONE</div></div></div></div></div>	Sprint 31	Sprint 31	
		<div><div><div><div><div>ICN-512</div><div>License updates in CNF RESTful API</div><div>DONE</div></div></div></div></div>	Sprint 31	Sprint 31	
		<div><div><div><div><div>ICN-514</div><div>Add watch mechanism for pod to auto sync</div><div>DONE</div></div></div></div></div>	Sprint 32	Sprint32	
		<div><div><div><div><div>ICN-493</div><div>SDEWAN Central Controller: Device Manager</div><div>DONE</div></div></div></div></div>	Sprint 33		

		<div><div><div><div><div>ICN-217</div><div>KuD R3 Release works</div><div>IN PROGRESS</div></div></div></div></div>	<div><div><div><div><div>ICN-296</div><div>add CMK support in multcloud/k8s KuD</div><div>IN PROGRESS</div></div></div></div></div>			
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Ruoyu Ying

◦ Todo

<div><div><div><div><div>ICN-190</div><div>E2E usages for SDWAN module in ICN to support multiple cluster communication through security WAN intertaces</div><div>TO DO</div></div></div></div></div>	<div><div><div><div><div>ICN-242</div><div>Investigate IPSec implementation in strongswan</div><div>DONE</div></div></div></div></div>	Sprint 11/12		
	<div><div><div><div><div>ICN-275</div><div>IPSec CRD Design</div><div>DONE</div></div></div></div></div>	Sprint 11/12	Sprint 11	
	<div><div><div><div><div>ICN-276</div><div>IPSec RESTful API Design</div><div>DONE</div></div></div></div></div>	Sprint 11/12	Sprint 11	
	<div><div><div><div><div>ICN-280</div><div>IPSec CRD and REST API implementation</div><div>DONE</div></div></div></div></div>	Sprint 18	Sprint 18	
	<div><div><div><div><div>ICN-313</div><div>PoC for integration scenario</div><div>DONE</div></div></div></div></div>	Sprint15	Sprint15	
	<div><div><div><div><div>ICN-314</div><div>SDEWAN E2E test scenario integration</div><div>DONE</div></div></div></div></div>	Sprint16	Sprint17	
	<div><div><div><div><div>ICN-390</div><div>SDEWAN end-to-end scenario with CRD &amp; controller</div><div>DONE</div></div></div></div></div>	Sprint19	Sprint19	
	<div><div><div><div><div>ICN-375</div><div>Enable end-to-end test scenario in bare-metal</div><div>DONE</div></div></div></div></div>	Sprint20/21		De-prioritized
	<div><div><div><div><div>ICN-373</div><div>SDEWAN CNF: enable VTI router based IPSec</div><div>DONE</div></div></div></div></div>	Sprint21/22	Sprint 26	
	<div><div><div><div><div>ICN-451</div><div>Investigation on BGP /OSPF support</div><div>IN PROGRESS</div></div></div></div></div>	Sprint26/27		De-prioritized
	<div><div><div><div><div>ICN-484</div><div>SDEWAN Central Controller: Hub Manager</div><div>DONE</div></div></div></div></div>	Sprint 28/29/Sprint30		
	<div><div><div><div><div>ICN-600</div><div>SDEWAN Central Controller: Setup Demo on BM environment</div><div>DONE</div></div></div></div></div>	Sprint29/Sprint30	Sprint30	
	<div><div><div><div><div>ICN-603</div><div>SDEWAN R4 CI testing</div><div>DONE</div></div></div></div></div>	Sprint30	Sprint30	

Mark Scott



















- To deploy ICN and KUD in CentOS 8

Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
 <b>ICN-407</b> - KuD Development works <div>TO DO</div>	 <b>ICN-395</b> - Docker ramp up <div>DONE</div>	Sprint 21/22		
	 <b>ICN-396</b> - Kubernetes ramp up <div>DONE</div>	Sprint 21/22		
	 <b>ICN-399</b> - KUD setup <div>DONE</div>	Sprint 22/23		
	 <b>ICN-400</b> - Run up Vagrant with CentOS 7 <div>DONE</div>	Sprint 22/23		
	 <b>ICN-404</b> - Run KUD with Centos 7 in aio setup <div>DONE</div>	Sprint 22/23/24/25		
	 <b>ICN-402</b> - Run the KUD Vagrantfile with Centos 7 - phase 1 <div>DONE</div>	Sprint 22/23/24/25		
	 <b>ICN-437</b> - Centos Docker installation in installer.sh <div>DONE</div>	Sprint 25/26		
	 <b>ICN-438</b> - Centos Kubespray installation in installer.sh <div>DONE</div>	Sprint 25/26		



Todd Malsbary

- Todo

Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
 <b>ICN-5</b> - Kud for ICN <span>TO DO</span>	 <b>ICN-433</b> - Creating EMCO V2 script in KUD <span>DONE</span>	Sprint 23	Sprint 24	
	 <b>ICN-448</b> - Create plugin test script for vFW for EMCO V2 script in KUD <span>DONE</span>	Sprint 25	Sprint 27	
	 <b>ICN-456</b> - Run vFW V2 test script as part of ICN install <span>DONE</span>	Sprint 26	Sprint 29	
	 <b>ICN-479</b> - Review and update plugin_fw_v2.sh for changes to genericPlacementIntent <span>DONE</span>	Sprint 27	Sprint 27	
	 <b>ICN-480</b> - Update plugin_fw_v2.sh to use emccctl <span>DONE</span>	Sprint 28		Postponing this to future release
	 <b>ICN-486</b> - Upgrade the Kubespray 2.14 for KUD <span>DONE</span>	Sprint 28	Sprint 30	
	 <b>ICN-513</b> - Installed kernel cmdline needs intel_iommu=on iommu=pt to support QAT <span>DONE</span>	Sprint 31	Sprint 31	
	 <b>ICN-487</b> - Get blual running as part of CI for R4 release <span>DONE</span>	Sprint 29	Sprint 29	
	 <b>ICN-501</b> - Resolve security PASS /FAIL criteria for R4 <span>DONE</span>	Sprint 30	Sprint 31	
	 <b>ICN-453</b> - Re-playing the vm-setup/setup-playbook causes subsequent provisioning to fail <span>DONE</span>	Sprint 26	Sprint 29	
	 <b>ICN-475</b> - Baremetal deploy make_bm_hosts step fails when baremetal-operator repo is not present <span>DONE</span>	Sprint 27	Sprint 29	
	 <b>ICN-476</b> - "/02_verify.sh: line 22: [: too many arguments" when the state is "registration error" <span>DONE</span>	Sprint 27	Sprint 29	
	 <b>ICN-477</b> - interface is spelled interface (missing r) in several places <span>DONE</span>	Sprint 27	Sprint 29	
	 <b>ICN-481</b> - metal3 provisioning fails for nvme devices <span>DONE</span>	Sprint 28	Sprint 29	
	 <b>ICN-488</b> - The ironic-python-agent.tar link on http://images.rdoproject.com is gone which breaks bare metal deploy <span>DONE</span>	Sprint 28	Sprint 29	
	 <b>ICN-487</b> - username and password from nodes.json are unused <span>DONE</span>	Sprint 29	Sprint 29	
	 <b>ICN-504</b> - Clean steps should treat missing resources as already deleted <span>DONE</span>	Sprint 30	Sprint 31	

