

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)																																																																																																													
		• EMCO DCM	Igor Duarte Cardoso DCM v1 (see in ONAP) <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> 🔖 ICN-314 - DCM dev works DONE </td><td> 📌 ICN-376 - DCM re-ramp on Itohan's docs DONE </td><td>Sprint 21</td><td>Sprint 21</td><td></td></tr><tr><td></td><td> 📌 ICN-386 - Install Istio for replicated control planes DONE </td><td>Sprint 21</td><td>Sprint 21</td><td></td></tr><tr><td></td><td> 📌 ICN-387 - Run apply.go and API testing scripts DONE </td><td>Sprint 22</td><td>Sprint 22</td><td></td></tr><tr><td></td><td> 📌 ICN-384 - Evaluate apply.go implementation DONE </td><td>Sprint 22</td><td>Sprint 22</td><td></td></tr><tr><td></td><td> 📌 ICN-408 - Deploy full EMCO outside of k8s DONE </td><td>Sprint 22</td><td>Sprint 22</td><td></td></tr><tr><td></td><td> 📌 ICN-389 - Evaluate "Kubeconfig API (WORK IN PROGRESS)" DONE </td><td>Sprint 22</td><td>Sprint 22</td><td></td></tr><tr><td></td><td> 📌 ICN-409 - Implement gRPC calling from DCM to RSync DONE </td><td>Sprint 22</td><td>Sprint 22</td><td></td></tr><tr><td></td><td> 📌 ICN-410 - Implement terminateHandler DONE </td><td>Sprint 22</td><td>Sprint 22</td><td></td></tr><tr><td></td><td> 📌 ICN-417 - Reimplement quota field parsing DONE </td><td>Sprint 23</td><td>Sprint 23</td><td></td></tr><tr><td></td><td> 📌 ICN-418 - Generate kubeconfigs for logical cloud DONE </td><td>Sprint 23</td><td>Sprint 23</td><td></td></tr><tr><td></td><td> 📌 ICN-419 - Store user key in MongoDB DONE </td><td>Sprint 23</td><td>Sprint 23</td><td></td></tr><tr><td></td><td> 📌 ICN-421 - Create User to access logical cloud DONE </td><td>Sprint 23</td><td>Sprint 23</td><td></td></tr><tr><td></td><td> 📌 ICN-423 - Create OpenAPI spec for DCM API DONE </td><td>Sprint 23</td><td>Sprint 23</td><td></td></tr><tr><td></td><td> 📌 ICN-425 - Implement missing HTTP returns DONE </td><td>Sprint 23</td><td>Sprint 23</td><td></td></tr><tr><td></td><td> 📌 ICN-422 - Initial work on rsync certificate approval DONE </td><td>Sprint 23</td><td>Sprint 24</td><td></td></tr><tr><td></td><td> 📌 ICN-411 - Implement dcm certificate approval DONE </td><td>Sprint 23</td><td>Sprint 24</td><td></td></tr><tr><td></td><td> 📌 ICN-428 - Ramp on appcontext state, status and resource status DONE </td><td>Sprint 24</td><td>Sprint 24</td><td></td></tr><tr><td></td><td> 📌 ICN-429 - Obtain signed cert from cluster/rsync DONE </td><td>Sprint 24</td><td>Sprint 24</td><td></td></tr><tr><td></td><td> 📌 ICN-430 - Update kubeconfig with signed cert DONE </td><td>Sprint 24</td><td>Sprint 24</td><td></td></tr><tr><td></td><td> 📌 ICN-431 - Update appcontext with new action `approve` DONE </td><td>Sprint 24</td><td>Sprint 24</td><td></td></tr></table>					Epic	JIRA Story	Sprint/Estimated Completion	Status/Actual Completion	Notes	🔖 ICN-314 - DCM dev works DONE	📌 ICN-376 - DCM re-ramp on Itohan's docs DONE	Sprint 21	Sprint 21			📌 ICN-386 - Install Istio for replicated control planes DONE	Sprint 21	Sprint 21			📌 ICN-387 - Run apply.go and API testing scripts DONE	Sprint 22	Sprint 22			📌 ICN-384 - Evaluate apply.go implementation DONE	Sprint 22	Sprint 22			📌 ICN-408 - Deploy full EMCO outside of k8s DONE	Sprint 22	Sprint 22			📌 ICN-389 - Evaluate "Kubeconfig API (WORK IN PROGRESS)" DONE	Sprint 22	Sprint 22			📌 ICN-409 - Implement gRPC calling from DCM to RSync DONE	Sprint 22	Sprint 22			📌 ICN-410 - Implement terminateHandler DONE	Sprint 22	Sprint 22			📌 ICN-417 - Reimplement quota field parsing DONE	Sprint 23	Sprint 23			📌 ICN-418 - Generate kubeconfigs for logical cloud DONE	Sprint 23	Sprint 23			📌 ICN-419 - Store user key in MongoDB DONE	Sprint 23	Sprint 23			📌 ICN-421 - Create User to access logical cloud DONE	Sprint 23	Sprint 23			📌 ICN-423 - Create OpenAPI spec for DCM API DONE	Sprint 23	Sprint 23			📌 ICN-425 - Implement missing HTTP returns DONE	Sprint 23	Sprint 23			📌 ICN-422 - Initial work on rsync certificate approval DONE	Sprint 23	Sprint 24			📌 ICN-411 - Implement dcm certificate approval DONE	Sprint 23	Sprint 24			📌 ICN-428 - Ramp on appcontext state, status and resource status DONE	Sprint 24	Sprint 24			📌 ICN-429 - Obtain signed cert from cluster/rsync DONE	Sprint 24	Sprint 24			📌 ICN-430 - Update kubeconfig with signed cert DONE	Sprint 24	Sprint 24			📌 ICN-431 - Update appcontext with new action `approve` DONE	Sprint 24	Sprint 24	
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	 IGN-432 - Switch from /resource to /subresources DONE	Sprint 25	Sprint 25	
	 IGN-440 - Add subresource-level order/dependency logic DONE	Sprint 25	Sprint 25	
	 IGN-441 - Implement CSR monitor controller DONE	Sprint 25	Sprint 25	
	 IGN-442 - Improve wiki doc regarding DCM DONE	Sprint 25	Sprint 25	
	 IGN-461 - Fix breaking CI issue DONE	Sprint 26	Sprint 26	
	 IGN-462 - Fix terminate issue on rsync DONE	Sprint 26	Sprint 26	
	 IGN-463 - Split patches and refactor/fix DONE	Sprint 26	Sprint 27	
	 IGN-464 - Test DCM end-to-end DONE	Sprint 27	Sprint 27	
	 IGN-465 - Associate logical clouds to projects DONE	Sprint 27	Sprint 27	
	 IGN-466 - Reimplement Terminate operation as async DONE	Sprint 27	Sprint 27	
	 IGN-467 - Improve DCM OpenAPI with missing schema fields DONE	Sprint 27	Sprint 27	
	 IGN-468 - Resource quota validation DONE	Sprint 27	Now tracked in EMCO	
	 IGN-469 - Improve logging DONE	Sprint 27	Sprint 27	
	 IGN-470 - Refactor calls to DeleteCompositeApp DONE	Sprint 27	Sprint 27	
	 IGN-471 - Final refactoring DONE	Sprint 27	Now tracked in EMCO	
	 IGN-472 - Update deployment file to include DCM DONE	Sprint 27	Sprint 27	
	 IGN-473 - Update helm chart to include DCM DONE	Sprint 27	Sprint 27	
	 IGN-489 - Integrate EMCO DCM in ICN TO DO	Sprint 30+		not started

SD-EWAN Restful API (MWAN3) definition

WMAN3 Restful API POC

SD-EWAN Service Restful API

Get available services (e.g. mwan3, ipsec, firewall)

Execute Service

Huifeng Le

Epic	JIRA Story	Sprint /Estimated Completion Date	Status /Actual Completion Date	Notes
ICN-190 E2E usages for SDWAN module in ICN to support multiple cluster communication through security WAN intertaces TO DO	ICN-211 MWAN3 Restful API DONE	Sprint 9	Sprint 9	
	ICN-221 EWAN Restful API POC DONE	Sprint 10	Sprint 10	
	ICN-222 EWAN Restful API Go Client POC DONE	Sprint 10	Sprint 10	
	ICN-228 EWAN Service Restful API DONE	Sprint 10	Sprint10	
	ICN-271 EWAN MWAN3 API implementation DONE	Sprint 11	Sprint 11	
	ICN-272 EWAN Firewall API definition DONE	Sprint 12	Sprint 12	
	ICN-273 EWAN Firewall API implementation DONE	Sprint 13	Sprint 13	
	ICN-301 EWAN Firewall CRD/Rest API integration DONE	Sprint 13	Sprint20	postpone to R3.1
	ICN-313 PoC for integration scenario DONE	Sprint15	Sprint15	
	ICN-314 SDEWAN E2E test scenario integration DONE	Sprint16	Sprint17	
	ICN-372 SDEWAN Central Controller /Traffic Hub design DONE	Sprint23		
	ICN-391 SDEWAN Central Controller: POC for golang Restful API Server DONE	Sprint21	Sprint21	
	ICN-420 SDEWAN Central Controller: POC for rsync integration DONE	Sprint23	Sprint23	
	ICN-427 SDEWAN Central Controller: POC for remote k8s connection through hub DONE	Sprint24	Sprint24	
	ICN-447 SDEWAN Central Controller: Cert Manager Utility DONE	Sprint25	Sprint25	
	ICN-440 SDEWAN Central Controller: framework with basic features DONE	Sprint26	Sprint27	
	ICN-454 SDEWAN Central Controller: IP Address Manager DONE	Sprint26	Sprint26	
	ICN-484 SDEWAN Central Controller: Hub Manager DONE	Sprint28/Sprint29 /Sprint30	Sprint30	
	ICN-486 SDEWAN Central Controller: Connection Manager DONE	Sprint28	Sprint28	
	ICN-493 SDEWAN Central Controller: Device Manager DONE	Sprint29/Sprint30		
	ICN-494 SDEWAN Central Controller: Hub-Device Manager DONE	Sprint29/Sprint30		

ICN R3 Deliverables

All bug fixed for ICN R2 and customer readiness

DCM, SD-eWAN, Openness in ICN R3 release

Offline deployment & Global controller completion in R3

Launch & Performance Dashboard

CI/CD system & ICN maturity

Kuralamudhan Ramakrishnan

Epic	JIRA Stroy	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
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ICN-61 - ICN CI / CD works TO DO	ICN-178 - ICN SDL works DONE	Sprint 9	Sprint 9	
ICN-1 - Metal3 Baremetal Operator in ICN Stack IN PROGRESS	ICN-199 - Metal3 Refactoring & ICN R2 bug Fixes - OS and user data DONE	Sprint 9	Sprint 11	
ICN-314 - DCM dev works DONE	ICN-192 - DCM lighting talk - API & Design development DONE	Sprint 9	Sprint 9	
ICN-191 - Integration OpenNESS with ICN TO DO	ICN-194 - Openness & SDWAN Lighting talks - API & design prep DONE	Sprint 9	Sprint 9	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-238 - Ramp up on OVN4NFV and running the patches DONE	Sprint 11	Sprint 11	
ICN-238 - Ramp up on OVN4NFV and running the patches DONE	ICN-267 - ICN script updates DONE	Sprint 11	Sprint 11	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-260 - OVN containerization DONE	Sprint 12	Sprint 12	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-269 - Adding OVN4K8s in Kubespray DONE	Sprint 14/15/16/17	Sprint 17	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-264 - Making OVN4NFV as the primary network DONE	Sprint 12/13	Sprint 13	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-269 - Refactoring OVN coding for OVN containerization daemonset DONE	Sprint 13/14	Sprint 13/14	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-311 - Introducing Provider Network Direct type DONE	Sprint 14	Sprint 14	
ICN-1 - Metal3 Baremetal Operator in ICN Stack IN PROGRESS	ICN-321 - Bug fixes & Testing for ICN Baremetal Operator version DONE	Sprint 14	Sprint 14	
ICN-1 - Metal3 Baremetal Operator in ICN Stack IN PROGRESS	ICN-319 - Fix the ICN baremetal operator version DONE	Sprint 14	Sprint 14	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-322 - Bug fixes for the OVN4NFV-K8s plugin primary routing issues DONE	Sprint 15	Sprint 15	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-316 - Akraio ICN installation issue on baremetal server #ICN DONE	Sprint 15	Sprint 15	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-330 - CNI Server development in ONAP4K8s DONE	Sprint 16	Sprint 16	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-331 - CNI shim development in ONAP4K8s DONE	Sprint 16	Sprint 16	
ICN-189 - ICN CI/CD TO DO	ICN-361 - ICN BM and VM installer script improvement DONE	Sprint 17	Sprint 17	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-342 - Post review patches for OVN4NFV DONE	Sprint 20/21	Sprint 21	
ICN-189 - ICN CI/CD TO DO	ICN-340 - Documentation and patch review for ICN Release DONE	Sprint 18/19/20	Sprint 21	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-368 - Post review for Kubespray DONE	Sprint 20/21	Sprint 21	
ICN-189 - ICN CI/CD TO DO	ICN-360 - Code review and CI/CD Testing DONE	Sprint 18/19	Sprint 19	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-409 - Unit testing in OVN4NFV CNI DONE	Sprint 24/25/26	Sprint 26	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-406 - OVN4NFV Kubespray with Centos 7 DONE	Sprint 24/25/26	Sprint 26	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-404 - OVN4NFV Service Function Chaining development DONE	Sprint 22	sprint 22	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-405 - EMCO and SFC demo preparation DONE	Sprint 22	sprint 22	
ICN-236 - OVN4K8SNFV development work IN PROGRESS	ICN-415 - Dev. rebased OVN4NFV SFC development with Kubespray DONE	Sprint 23	Sprint 23	

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

Cheng Li

Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
ICN-190 - E2E usages for SDWAN module in ICN to support multiple cluster communication through security WAN interfaces TO DO	ICN-200 - SDEWAN CRD definition DONE	Sprint 9	Sprint 9	
	ICN-210 - MWAN3 rule CRD definition DONE	Sprint 9	Sprint 9	
	ICN-206 - SDEWAN Operator Framework DONE	Sprint 10/11/12	Sprint 12	
	ICN-260 - Firewall CRD definition DONE	Sprint 12	Sprint 12	
	ICN-312 - Sdewan CRD re-design DONE	Sprint 13	Sprint14	
	ICN-329 - Sdewan controller framework DONE	Sprint14/15	Sprint 17	
	ICN-330 - Extract similar logical of CRD controllers DONE	Sprint 17	Sprint 17	Postpone to R3.1
	ICN-360 - implement label based permission system, phase one DONE	Sprint 18	Sprint 18	Postpone to R3.1
	ICN-360 - implement label based permission system, phase two DONE	Sprint 19	Sprint 19	Postpone to R3.1
	ICN-270 - Sdewan firewall controller implementation DONE	Sprint 13	Sprint 19	Postpone to R3.1
	ICN-280 - Add Sdewan firewall CRD DONE	Sprint 13	Sprint 19	Postpone to R3.1
	ICN-201 - EWAN Firewall CRD /Rest API integration DONE	Sprint 13		Postpone to R3.1
	ICN-313 - PoC for integration scenario DONE	Sprint15	Sprint15	
	ICN-314 - SDEWAN E2E test scenario integration DONE	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
 ICN-217 - KuD R3 Release works IN PROGRESS	 ICN-260 - KUD Multi Vagrant 18.04 issue DONE	Sprint 11/12/14/15	Sprint 15	
	 ICN-281 - Vagrant vm can not get correct name server in ubuntu-1804. DONE	Sprint 11	Sprint 11	
	 ICN-295 - Installer vm cannot install nfs because of nameserver issues. DONE	Sprint 12/14/15	Sprint 15	
	 ICN-286 - All other VMs are unreachable for Installer VM DONE	Sprint 12	Sprint 12	
	 ICN-303 - Compute01 no spcae left in KUD Multi Vagrant DONE	Sprint 12	Sprint 12	
	 ICN-316 - Vagrant Box Build with base Ubuntu-18.04 for ICN DONE	Sprint 13	Sprint 13	
	 ICN-308 - Upgrade the Kubespray 2.12 for KUD DONE	Sprint 16/17/18/19	Sprint 19	
	 ICN-327 - criproxy failed to start up after node reboot DONE	Sprint 16/17	Sprint 17	
	 ICN-326 - Vagrant Virtlet testing not working in proxy testings DONE	Sprint 16	Sprint 16	
	 ICN-327 - QAT device plugin deploy issue DONE	Sprint 18/19/20	Sprint 20	
	 ICN-367 - KUD CI Folder installer DONE	Sprint 18/19	Sprint 19	
	 ICN-377 - Catch the cnf Pod no IP error DONE	Sprint 19	Sprint 19	
	 ICN-378 - Add watch function for cnf deployment and CR DONE	Sprint 19	Sprint 19	
	 ICN-399 - Apply watch to all controllers and test DONE	Sprint 19	Sprint 19	
	 ICN-354 - Fix ICN node reboot issue for the containerized version DONE	Sprint 19/20	Sprint 31	
	 ICN-393 - Create CNF helm chart DONE	Sprint 20	Sprint 20	
	 ICN-394 - Create helm chart for ICN SDEWAN controller DONE	Sprint 20	Sprint 20	
	 ICN-442 - A watch to monitor the service IPs changes DONE	Sprint 22	Sprint 22	
	 ICN-413 - A new custom Service controller to hold watch function DONE	Sprint 22	Sprint 22	
	 ICN-439 - Implement the service RESTful API DONE	Sprint 24/25/26/27	Sprint 27	
	 ICN-445 - Implement the CR for Services DONE	Sprint 26/27	Sprint 27	
	 ICN-446 - Change the Firewall restart script to update the iptables NAT rules DONE	Sprint 26/27	Sprint 27	
	 ICN-455 - Implement the CR for Application DONE	Sprint 29/30/31	Sprint 31	
	 ICN-491 - Implement RESTful API for Application DONE	Sprint 29/30	Sprint 30	
	 ICN-493 - Test the network connection PoC with Calico as default network DONE	Sprint 29	Sprint 29	
	 ICN-495 - Create the Application network accession PoC for flannel and OVN DONE	Sprint 28	Sprint 28	

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

		ICN-217 KuD R3 Release works IN PROGRESS	ICN-296 add CMK support in multicloud/k8s KuD IN PROGRESS			
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Ruoyu Ying

◦ Todo

Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
ICN-190 E2E usages for SDWAN module in ICN to support multiple cluster communication through security WAN intertaces TO DO	ICN-242 Investigate IPSec implementation in strongswan DONE	Sprint 11/12		
	ICN-275 IPSec CRD Design DONE	Sprint 11/12	Sprint 11	
	ICN-276 IPSec RESTful API Design DONE	Sprint 11/12	Sprint 11	
	ICN-280 IPSec CRD and REST API implementation DONE	Sprint 18	Sprint 18	
	ICN-313 PoC for integration scenario DONE	Sprint15	Sprint15	
	ICN-314 SDEWAN E2E test scenario integration DONE	Sprint16	Sprint17	
	ICN-390 SDEWAN end-to-end scenario with CRD & controller DONE	Sprint19	Sprint19	
	ICN-375 Enable end-to-end test scenario in bare-metal DONE	Sprint20/21		De-prioritized
	ICN-373 SDEWAN CNF: enable VTI router based IPSec DONE	Sprint21/22	Sprint 26	
	ICN-451 Investigation on BGP /OSPF support IN PROGRESS	Sprint26/27		De-prioritized
	ICN-484 SDEWAN Central Controller: Hub Manager DONE	Sprint 28/29/Sprint30		
	ICN-500 SDEWAN Central Controller: Setup Demo on BM environment DONE	Sprint29/Sprint30	Sprint30	
	ICN-503 SDEWAN R4 CI testing DONE	Sprint30	Sprint30	

Mark Scott

- To deploy ICN and KUD in CentOS 8

Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
 ICN-407 - KuD Development works TO DO	 ICN-395 - Docker ramp up DONE	Sprint 21/22		
	 ICN-396 - Kubernetes ramp up DONE	Sprint 21/22		
	 ICN-399 - KUD setup DONE	Sprint 22/23		
	 ICN-400 - Run up Vagrant with CentOS 7 DONE	Sprint 22/23		
	 ICN-401 - Run KUD with Centos 7 in aio setup DONE	Sprint 22/23/24/25		
	 ICN-402 - Run the KUD Vagrantfile with Centos 7 - phase 1 DONE	Sprint 22/23/24/25		
	 ICN-437 - Centos Docker installation in installer.sh DONE	Sprint 25/26		
	 ICN-438 - Centos Kubespray installation in installer.sh DONE	Sprint 25/26		

Todd Malsbary

- Todo

Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
 ICN-5 - Kud for ICN TO DO	 ICN-433 - Creating EMCO V2 script in KUD DONE	Sprint 23	Sprint 24	
	 ICN-448 - Create plugin test script for vFW for EMCO V2 script in KUD DONE	Sprint 25	Sprint 27	
	 ICN-456 - Run vFW V2 test script as part of ICN install DONE	Sprint 26	Sprint 29	
	 ICN-479 - Review and update plugin_fw_v2.sh for changes to genericPlacementIntent DONE	Sprint 27	Sprint 27	
	 ICN-480 - Update plugin_fw_v2.sh to use emccctl DONE	Sprint 28		Postponing this to future release
	 ICN-486 - Upgrade the Kubespray 2.14 for KUD DONE	Sprint 28	Sprint 30	
	 ICN-513 - Installed kernel cmdline needs intel_iommu=on iommu=pt to support QAT DONE	Sprint 31	Sprint 31	
	 ICN-487 - Get blual running as part of CI for R4 release DONE	Sprint 29	Sprint 29	
	 ICN-501 - Resolve security PASS /FAIL criteria for R4 DONE	Sprint 30	Sprint 31	
	 ICN-463 - Re-playing the vm-setup/setup-playbook causes subsequent provisioning to fail DONE	Sprint 26	Sprint 29	
	 ICN-476 - Baremetal deploy make_bm_hosts step fails when baremetal-operator repo is not present DONE	Sprint 27	Sprint 29	
	 ICN-476 - "/02_verify.sh: line 22: [: too many arguments" when the state is "registration error" DONE	Sprint 27	Sprint 29	
	 ICN-477 - interface is spelled interface (missing r) in several places DONE	Sprint 27	Sprint 29	
	 ICN-481 - metal3 provisioning fails for nvme devices DONE	Sprint 28	Sprint 29	
	 ICN-480 - The ironic-python-agent.tar link on http://images.rdoproject.com is gone which breaks bare metal deploy DONE	Sprint 28	Sprint 29	
	 ICN-487 - username and password from nodes.json are unused DONE	Sprint 29	Sprint 29	
	 ICN-504 - Clean steps should treat missing resources as already deleted DONE	Sprint 30	Sprint 31	

