

ICN Release Notes for ICN

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Summary

ICN v0.3.0 is released as a part of ICN R2 release after the major intermediate release ICN v0.1.0, v0.2.0.

what is released?

We're pleased to announce the delivery of Akraino ICN R2 release. Our Stable release v1.0.0 after 3 intermediate release. All the components are de-coupled and they can run standalone and they all integrated with ICN installation script.

components of the release (Akraino new)

The main themes of this release are:

Metal3 Provisioning script: Metal3 IPMI provisioning script and de-provisioning script for bare-metal and Virtual deployment with IPMI LAN protocol support

Binary Provisioning agent(BPA) Operator:

- BPA operator is provision k8s cluster in Bare-metal and virtual deployment provisioned by metal3. BPA operator uses the metal3 information
- BPA operator provision **nested K8s cluster**(K8s cluster inside a VM maintained by K8s). BPA manages k8s based VM under Cloud

Binary Provisioning agent(BPA) Rest API controller: Binary Provisioning agent Rest API controller runs as K8s service in the bootstrap cluster. Allow the user to upstream software, container images and OS images

Kubernetes deployment(KuD): KuD is the multi-cluster installer having 3 installation provision type to install k8s multi-cluster in Baremetal, VM and containerized solution. KUD is part of Multicloud-k8s project in ONAP. KUD is released with multiple components as follows:

Software released and packaged with ICN:

Components	Link	Akraino Release (ICN - v1.0.0)
Provision stack - Metal3	https://github.com/metal3-io/baremetal-operator/	R2
Host Operating system	Ubuntu 18.04	R2

NIC drivers	XL710 - https://www.intel.com/content/dam/www/public/us/en/documents/datasheets/xl710-10-40-controller-datasheet.pdf	R2
ONAP	https://git.onap.org/multicloud	R2
Workloads	OpenWRT SDWAN - https://openwrt.org/	R2
KUD	https://git.onap.org/multicloud/k8s/	R2
Kubespray	https://github.com/kubernetes-sigs/kubespray v2.10.4	R2
K8s	https://github.com/kubernetes/kubeadm - v1.14	R2
Docker	https://github.com/docker - 18.09	R2
Virtlet	https://github.com/Mirantis/virtlet -1.4.4	R2
SDN - OVN	https://github.com/ovn-org/ovn-kubernetes - 0.3.0	R2
OpenvSwitch	https://github.com/openvswitch/ovs - 2.10.1	R2
Ansible	https://github.com/ansible/ansible - 2.7.10	R2
Helm	https://github.com/helm/helm - 2.9.1	R2
Istio	https://github.com/istio/istio - 1.0.3	R2
Rook/Ceph	https://rook.io/docs/rook/v1.0/helm-operator.html v1.0	R2
MetallB	https://github.com/danderson/metallb/releases - v0.7.3	R2
Device Plugins	https://github.com/intel/intel-device-plugins-for-kubernetes - SRIOV	R2
Node Feature Discovery	<ul style="list-style-type: none"> https://github.com/kubernetes-sigs/node-feature-discovery - 0.4.0 	R2
CNI	https://github.com/coreos/flannel/ - release tag v0.11.0 https://github.com/containernetworking/cni - release tag v0.7.0 https://github.com/containernetworking/plugins - release tag v0.8.1 https://github.com/containernetworking/cni#3rd-party-plugins - Multus v3.3tp, SRIOV CNI v2.0(with SRIOV Network Device plugin)	R2

dependencies of the release (upstream version, patches)

ICN BP depends on all software version in the table [Software released and packaged with ICN:](#)

Upgrade Procedures

not applicable

Release Data

TBD

Enhancements

Functionality changes

not applicable

New Features

not applicable

Version change

Module version changes

not applicable

Document Version Changes

not applicable

Deliverable

Software Deliverable

ICN repo is available here: [ICN repo](#)

Documentation Deliverable

version	Documents name	Authors	last update
v1.0	ICN Architecture Document	ICN Contributors	15 Nov 2019
v1.0	ICN Installation Guide	ICN Contributors	15 Nov 2019
v1.0	ICN Release Notes for ICN	ICN Contributors	15 Nov 2019
v1.0	ICN Test Document	ICN Contributors	15 Nov 2019

Document Version Changes

Version	Authors	Data released
v1.0	ICN Contributors	15 Nov 2019
v2.0	ICN Contributors	25 Nov 2019

Fixed Issues and Bugs

Issues are captured here- [ICN fixed Issues and Bugs](#)

Known Limitations, Issues and Workarounds

System Limitations

ICN BP works on Ubuntu 18.04

Known Issues

Issues	Description
<div><div>ICN-173 - Getting issue details...</div><div>STATUS</div></div>	<ul style="list-style-type: none">The BPA operator does not throw an error if the same MAC address is specified in multiple provisioning CR and so this will cause a failure or interfere with an already provisioned cluster.
MULTICLOUD-879	add CMK support in multicloud/k8s KuD

Workarounds

no work appliable

References