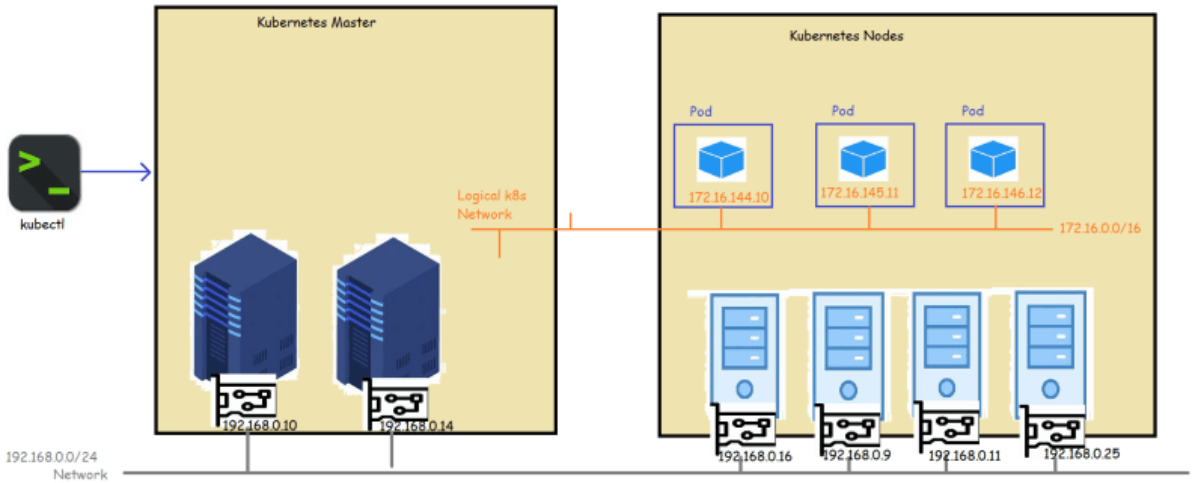
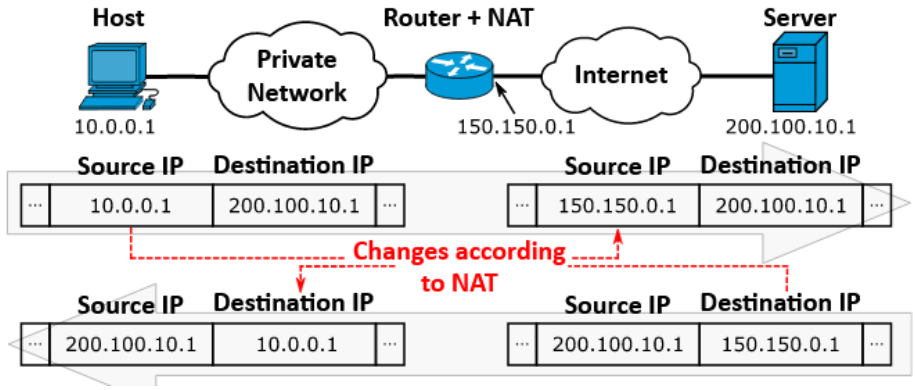
K8s Quick Overview and Architecture



- To create the logical network as shown in the image, Kubernetes has a networking model
- This networking model makes opinionated choices about how Pods are networked.
- K8s dictates the following requirements on any networking implementation
    - all Pods can communicate with all other Pods without using NAT (network address translation)
    - all Nodes can communicate with all Pods without NAT
    - the IP that Pod sees itself is the same IP that others see it as
- Kubernetes defines a specification for configuring network using CNI (Container Network Interface) Link: https://github.com/containernetworking/cni
- Example of Kubernetes network.
- Kubernetes network Link: https://kubernetes.io/docs/concepts/cluster-administration/networking/

What is NAT?

NAT allows a single device, such as a router, to act as an agent between the Internet (or public network) and a local network (or private network), which means that only a single unique IP address is required to represent an entire group of computers to anything outside their network.



CIDR?

Classless Inter-Domain Routing is a method for allocating IP addresses and for IP routing.

Example of Kubernetes network? >> Calico, Weave Net and Romana