CNIF AND ITS LANDSHAPE

(NCF -> cloud Native computing Foundation.

to It in acts as a home for many

Fast growing open source foundation

Sandbax project)-> when a project just entere the CNCF it is called sandbox project

Incudating project) -> 1/2 moone it solishes the requirement & and it is allowed to men in free production with proper documentation Sandbox

Graduated project) -> All the requirement of & Inocutating satisfied & some other sewrity purpose.

orchestration and Kubarnates

in basically creating, maraging and orchestration monitoring our prospect

Container Orchastration: ne no have more containers eve that we are going for or creating and Managing Container orchestration. containers.

- & Monitoring (monitor the containers)
- & Scaling. (add or delete containers)
- & self healing. (when the container goes out of orchestration it heads it and make it within orchestration

Kubonnotes aka K89

of Kubonnetes in an open-source system for deployment, scaling and management of automating containerized application. Samo as

of Born at Google and share the same on A with BORN and DMEGIA

- of CNCF & Graduated project.
- & Extensibility > it is casily extensible.
- & Community -> Kubornetes has a big community

Introduction to K3s.

& Fully compatible Kubannotes distribution (approved by (N/F)

a started by Panchen Lobs.

do K3s and K8s > 3 in law Han 8" K3s in approcahable and low complex than K8S. more

Single binary

to it in under looms.

a Installs everything it needs to sun either as a control plane node or Join a cluster

- & MPI server, schoduler, controller
 - 4 Kupelet.
- 4 container of (it manages the complete container ils host gystem from unage transfer and storgel lifewill of execution and supervision). to container

opinionaled

K3.s bundles un

Default ungreus controller - Irachik

I container runtime - scontainer d

Virtual retworking within the duster - Flamel present in K35

Virtual retworking within the duster - Flamel Default source discovery -> coreons cluster load balancer -> Klipper-lb. Embedded

In order to be leightweight K3: Throw lot of water . R3s throws out.

- doud provider specific code in removed as Replaced with cloud controller Manager ((11M).
- . Third party specific storage drivers. * Replaced with container storage & interface ((SI)

Single Node & A control plane node can also perform work.

· Wemany reautement uncrease

de you can run a single node "cluster" Minimum requirement 7512 MB RAM Pos

Anything that kubernotes Kis can mun
then keep in

then K35 can also run".

a fully compatible and (NCF conformant dictribution of * Packagad in a single binary.

4 Opinionaled.