**2. Review Kubernetes Deployment and NodePort Service manifest for App1, Ap**

--- Reference - <https://github.com/stacksimplify/aws-eks-kubernetes-masterclass/tree/master/08-NEW-ELB-Application-LoadBalancers/08-03-ALB-Ingress-ContextPath-Based-Routing>

--- **note** – we already discussed the network architecture, what we are going to implement. As part of this process, we are also going to move our health checks path annotations at the service level. Which is nothing but inside of the node port service.

--- why do we need to do that? Is because the ingress service, we can define it health check path? if it is common for all the services or the applications, whatever you are load balancing.

--- per application, you have different health check path then that respective application health check path url should be configured inside that respect node port service.

--- As part of this process, this respective annotation **alb.ingress.kubernetes.io/healthcheck-path:** will be moved to respective application NodePort Service.

**Review Nginx App1, App2 & App3 Deployment & Service**

--- **Differences for all 3 apps will be only two fields from kubernetes manifests perspective and their naming conventions**

1. Kubernetes Deployment: Container Image name
2. Kubernetes Node Port Service: Health check URL path

--- **App1 Nginx: 01-Nginx-App1-Deployment-and-NodePortService.yml**

1. image: stacksimplify/kube-nginxapp1:1.0.0
2. Annotation: alb.ingress.kubernetes.io/healthcheck-path: /app1/index.html

--- **App2 Nginx: 02-Nginx-App2-Deployment-and-NodePortService.yml**

1. image: stacksimplify/kube-nginxapp2:1.0.0
2. Annotation: alb.ingress.kubernetes.io/healthcheck-path: /app2/index.html

--- **App3 Nginx: 03-Nginx-App3-Deployment-and-NodePortService.yml**

1. image: stacksimplify/kubenginx:1.0.0
2. Annotation: alb.ingress.kubernetes.io/healthcheck-path: /index.html

**Moving health checks at node port service**

--- **01-Nginx-App1-Deployment-and-NodePortService.yml**

apiVersion: apps/v1

kind: Deployment

metadata:

  name: app1-nginx-deployment

  labels:

    app: app1-nginx

spec:

  replicas: 1

  selector:

    matchLabels:

      app: app1-nginx

  template:

    metadata:

      labels:

        app: app1-nginx

    spec:

      containers:

        - name: app1-nginx

          image: stacksimplify/kube-nginxapp1:1.0.0

          ports:

            - containerPort: 80

---

apiVersion: v1

kind: Service

metadata:

  name: app1-nginx-nodeport-service

  labels:

    app: app1-nginx

  annotations:

#Important Note:  Need to add health check path annotations in service level if we are planning to use multiple targets in a load balancer

    alb.ingress.kubernetes.io/healthcheck-path: /app1/index.html

spec:

  type: NodePort

  selector:

    app: app1-nginx

  ports:

    - port: 80

      targetPort: 80

--- **02-Nginx-App2-Deployment-and-NodePortService.yml**

apiVersion: apps/v1

kind: Deployment

metadata:

  name: app2-nginx-deployment

  labels:

    app: app2-nginx

spec:

  replicas: 1

  selector:

    matchLabels:

      app: app2-nginx

  template:

    metadata:

      labels:

        app: app2-nginx

    spec:

      containers:

        - name: app2-nginx

          image: stacksimplify/kube-nginxapp2:1.0.0

          ports:

            - containerPort: 80

---

apiVersion: v1

kind: Service

metadata:

  name: app2-nginx-nodeport-service

  labels:

    app: app2-nginx

  annotations:

#Important Note:  Need to add health check path annotations in service level if we are planning to use multiple targets in a load balancer

    alb.ingress.kubernetes.io/healthcheck-path: /app2/index.html

spec:

  type: NodePort

  selector:

    app: app2-nginx

  ports:

    - port: 80

      targetPort: 80

--- **03-Nginx-App3-Deployment-and-NodePortService.yml**

apiVersion: apps/v1

kind: Deployment

metadata:

  name: app3-nginx-deployment

  labels:

    app: app3-nginx

spec:

  replicas: 1

  selector:

    matchLabels:

      app: app3-nginx

  template:

    metadata:

      labels:

        app: app3-nginx

    spec:

      containers:

        - name: app3-nginx

          image: stacksimplify/kubenginx:1.0.0

          ports:

            - containerPort: 80

---

apiVersion: v1

kind: Service

metadata:

  name: app3-nginx-nodeport-service

  labels:

    app: app3-nginx

  annotations:

#Important Note:  Need to add health check path annotations in service level if we are planning to use multiple targets in a load balancer

    alb.ingress.kubernetes.io/healthcheck-path: /index.html

spec:

  type: NodePort

  selector:

    app: app3-nginx

  ports:

    - port: 80

      targetPort: 80