Jaipur Engineers

Your One-Stop IT & Staffing Ecosystem

CLOUD & DEVOPS

Kubernetes

SAMPLE PROJECT

Kubernetes Application Rollout



COURSE FEE

Fee on enquiry

JAIPUR, RAJASTHAN

+91 70146 92039

Kubernetes

Core concepts



01 Cluster components, Pods and namespaces

02 Deployments, ReplicaSets and Services

03 ConfigMaps, Secrets and resource limits

Trace the deployment

Document the components, access boundary and expected health signal.

Kubernetes

Applied skills

- **Environment**
- **Service**
- **Health signals**



04 Ingress, probes and persistent volumes

05 Rollouts, rollback and scaling

06 Logs, events and deployment troubleshooting

PROJECT DELIVERABLES

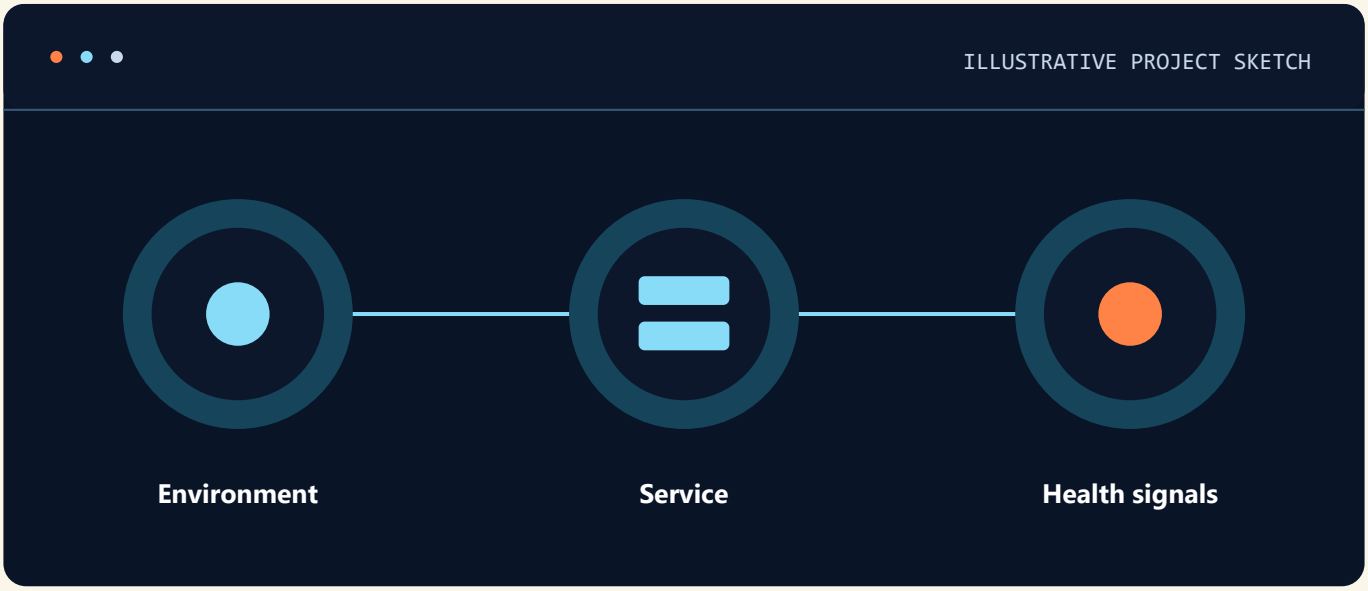
An architecture diagram, deployment notes and evidence of a health or recovery check.

Kubernetes

Portfolio project

Kubernetes Application Rollout

Run a sample service in a practice cluster and verify rollout, health checks, scaling and recovery.



Trace the deployment

Document the components, access boundary and expected health signal.

Rehearse recovery

Use a practice environment to check the documented recovery or rollback.

An architecture diagram, deployment notes and evidence of a health or recovery check.

Kubernetes

Course fees

COURSE FEE

Fee on enquiry

Ask admissions for the course fee, available batches and enrolment details.

ADMISSIONS

+91 70146 92039

info@jaipurengineers.com

122/228, Indra Path, Thadi Market

Mansarovar, Jaipur, Rajasthan 302020

SCAN FOR MAP

Check course details

Kubernetes

Course content

MODULES 01–02

01

Lessons & practice

- Cluster components
- Pods
- Namespaces

HANDS-ON — Start a sample Pod in a practice namespace and identify which components manage it.

02

Lessons & practice

- Deployments
- ReplicaSets
- Services

HANDS-ON — Create a Deployment and Service and verify stable access to the demo.

Kubernetes

Course content

MODULES 03–04

03

Lessons & practice

- ConfigMaps
- Secrets
- Resource limits

HANDS-ON Apply resource limits and separate sample configuration from sensitive values.

04

Lessons & practice

- Ingress
- Probes
- Persistent volumes

HANDS-ON Exercise a readiness probe and confirm mounted data persists across restarts.

Kubernetes

Course content

MODULES 05–06

05

Lessons & practice

- Rollouts
- Rollback
- Scaling

HANDS-ON Roll out a new image, check scaling and rehearse rollback.

06

Lessons & practice

- Logs
- Events
- Deployment troubleshooting

HANDS-ON Use events and logs to diagnose a practice deployment failure.