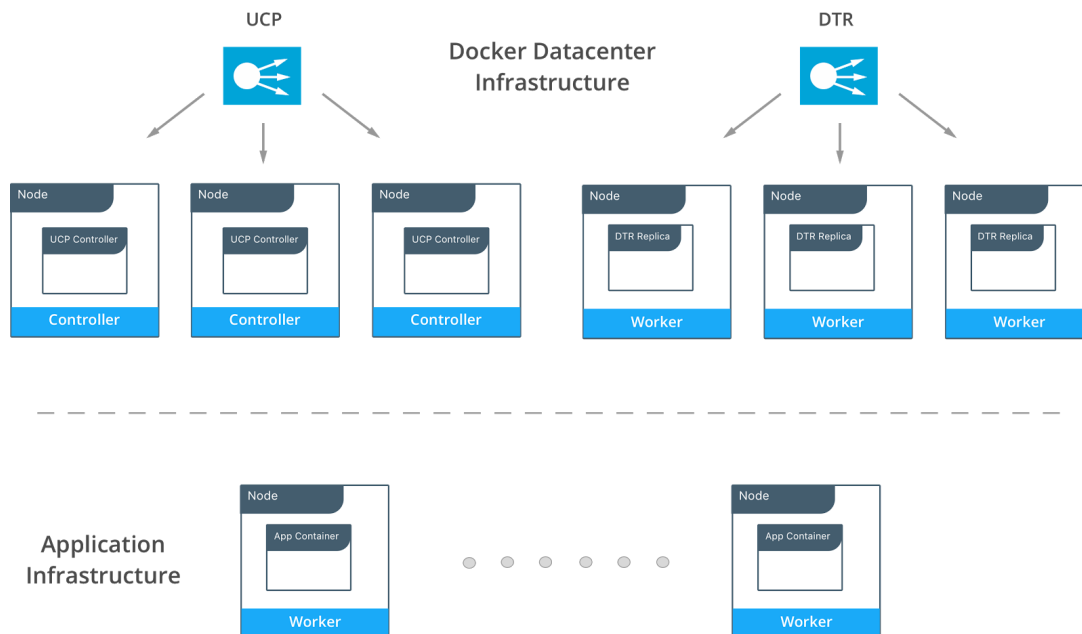# Docker Accelerator Build Checklist

General Requirements

Supported Environment:
- 1 Environment Per Engagement
- Cloud: ANY (AWS, Azure, GCP, DO, Alibaba)
- On-Premises: ANY (bare-metal, VMware, KVM, OpenStack)

Supported Operating Systems:
- Full list is available here

Supported Docker Enterprise Edition Version:
- Only latest Docker EE release

Environment Size:
- Minimum of 10 EE nodes

Docker Trusted Registry Backend Storage:
- Supported Storage Backends available here

External Load Balancer:
- Any Load Balancer capable of performing a TCP-based load balancing with HTTPS health checks.

Pre-Install Requirements

Baseline Knowledge Requirements
- ❏ Docker Fundamentals
    - ❏ Container Fundamentals
    - ❏ Docker Engine
    - ❏ Docker Images, Dockerfiles, Pushing, Pulling
    - ❏ Docker Enterprise Edition (UCP and DTR)
- ❏ Training Resources: Instructor-led, Self-paced, Docker Lab Tutorials

Host Environment Requirements
- ❏ Minimum 3 hosts for an HA UCP, 3 hosts for an HA DTR, and hosts for other applications
- ❏ Minimum host resource requirements
- ❏ Static IP addresses for UCP and DTR nodes
- ❏ Root access on hosts
- ❏ A supported host OS distribution with supported kernel version
- ❏ Installed Docker Enterprise Edition from package repo
- ❏ Configured engine graph storage driver for RHEL/Centos based OS using the recommended guide.
- ❏ Required TCP and UDP ports opened between all hosts based. Full list of required open ports is here.
- ❏ TCP load balancers with configurable health checks
- ❏ DNS records for UCP and DTR assigned to the TCP loadbalancers' VIPs.
- ❏ Ability to pull Docker images to hosts from Docker Hub or transfer as .tar files. Offline Images for UCP and DTR are available here

UCP Requirements
- ❏ Docker Enterprise Edition License.
- ❏ CA-signed SSL certificate for UCP
- ❏ Search queries for imported teams and users (If using LDAP/AD)

DTR Requirements
- ❏ Supported backend storage with proper access, credentials, and storage capacity.
- ❏ CA-signed SSL certificate for DTR

Post-Install Checklist

Host Environment
- ❏ Install Docker Enterprise Edition
- ❏ Configure Engine Graph Storage Driver
- ❏ Configure any applicable engine daemon options

Universal Control Plane Installation
- ❏ UCP Load Balancer Configuration (for HA installation)
- ❏ UCP Controller Node Installation
- ❏ UCP Worker Node Installation
- ❏ LDAP/AD Configuration
- ❏ Configure Externally-Signed Certificates
- ❏ Configure HTTP Routing Mesh
- ❏ Deploy Test Application and ensure you can reach it externally.
- ❏ Set up UCP backup process

Docker Trusted Registry Installation
- ❏ DTR Load Balancer Configuration (for HA installation)
- ❏ DTR Replica Node Installation
- ❏ Backend Storage Configuration
- ❏ Configure Externally-Signed Certificates
- ❏ Configure Garbage Collection
- ❏ Configure Users & Teams
- ❏ Configure Image Scanning
- ❏ Configure Image Signing (Docker Content Trust)
- ❏ Test Push/Pull
- ❏ Set up DTR backup process