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**“MASTERING
DOCKER:
ADVANCED BEST
PRACTICES FOR
EXPERTS”**



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**Keep containers small
and focused:**

**A container should only run
one process, and that
process should be tightly
focused on a single task.**

Use official images:

Use official images from the Docker Hub or other trusted source, as they are more likely to be secure and up-to-date

**Use the COPY instruction
instead of ADD:**

**Use COPY to add files to
your image, as it is more
secure and efficient than
ADD.**

Avoid using latest tag:

Instead of using "latest" tag, use version numbers or commit hashes to ensure reproducibility.

Use multi-stage builds:

Use multi-stage builds to reduce the size of your final image by only including the necessary dependencies.

**Use a container
orchestration tool:**

**Use a container
orchestration tool like
Kubernetes or Docker
Swarm to manage and
scale your containerized
applications.**

Use a private registry:

**Use a private registry to
store your custom images,
and to control access to
them.**

Use Network Segmentation:

Use network segmentation to isolate your containers and limit their access to the host and other containers.

Use a Container Security Tool:

Use a container security tool to scan your images for vulnerabilities and to enforce security policies.

Use Health Checks:

Use health checks to ensure that your containers are running as expected and to automatically recover from failures.

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