April 5th, 9:00 pm

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Social Distancing

How governments & Docker are using similar ways to ensure isolation for your safety?

Which features?

What are these isolation levels ?

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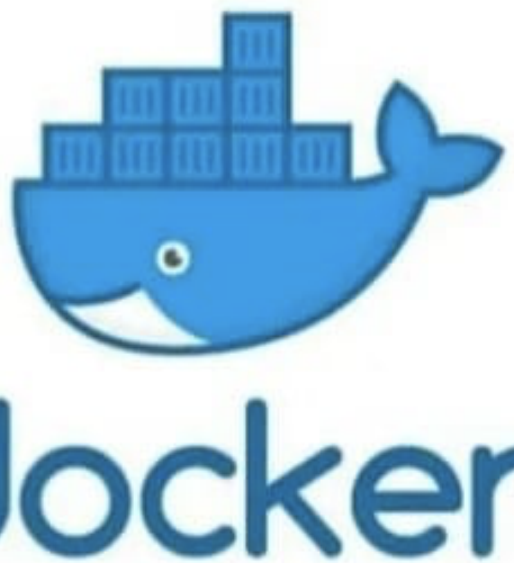
Governments emphasizes on isolation of citizens inside their homes.
(social distancing).

so that people won't infect each other.

Docker emphasises on **isolation** of applications inside containers, so that different applications have no effect on each other.

Docker is smart.

Be like docker.



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Governments have taken a number of measures to contain the spread of the disease

Docker has taken a number of measures to contain your applications

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Feature #1

CHANGE ROOT

Docker set a root directory for your container environment so the file system is protected and locked, and its group of processes can't see anything outside of the new designed root. (no visibility outside of it).

Which is more secure, because you can't steal what you can't see. 😊

The government is putting cities, towns and all the country on lockdown.

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Feature #2

NAMESPACES

Docker has a mechanism to hide processes from others, it give each chroot's environment different sets of namespaces so they can't see each others's processes by providing different isolates view layer for them on the system. (unsharing the network, PID...)

Governments suspended all kind family visits such as between children in foster families and family visits prison so no one can see each other temporary.

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Feature #3

CONTROL GROUPS

Docker use C-groups to provide a physical resources isolation, so the container can't get more than the defined CPU/Memory resources allowed.

Governments have imposed controlling, measuring and limiting access for food/medicine supplies and all the other country's resources so that everyone and every entity gets their fair shares. (depending on needs)

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Feature #4

HEALTHCHECK - DOCKER

Docker (version>~1.12) prevent and control in healthcheck settings specified on either Dockerfile or compose file whether or not the services are running within your container.

Governments follow their defined healthcare procedures to prevent and control suspected or confirmed cases of infection.

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STAY HOME

STAY SAFE

Containers are safe because they'rere implementing Docker isolation measures.

What about you, are you self-isolated?

NB: The pic is old, i'm at home!

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