

	IaaS	PaaS	Containers	Serverless
PRO	familiarity	convenience	packaged dependencies speed	no pay for idle time
CON	speed	doesn't work bad integration	not sure about OS	familiarity

Script = not compiled

program = compiled

BASH = scripting language

Declarative = abstraction, what

Procedural = specifying steps, like the algorithm, flow

infrastructure as code

Setup, Configure, Deploy, Undeploy, Shutdown

Expressiveness/Complexity of lang

Efficiency/Speed of lang. implementation

Sub-changes to a deployed infrastructure

Offline error checking

tooling/ease of use

security

AuthN = process by which you assert identity, to gain trust

Multifactor AuthN

① username/pw

③ biometrics - fingerprint

⑤ 2FA 1) what you know

② private/public key - SSL, SSH

④ Captcha's

2) what you have

3) what you are

AuthZ = what you can do

OS → Access Control List
↳ Capabilities

has changed - integrity

Cryptography

(1) Secret Alg

(2) secret key

(3) asymmetric