

Troubleshooting Series

How to Secure a server?

① How can an external entity establish connection to your server?

① TLS/SSL usage for web requests.

② usage of certificates for internal traffic.

Example ACM - Amazon Certificate Manager.

③ Connection to Remote Hosts from local machine.

- Use SSH

- Refer SSH video for more details

- Two ways for SSH connection

① Password

② SSH Keys → more secure. Why? → Cracking SSH keys is more difficult. Use self rotating keys to further enhance security

↳ Same goes for any credentials you use on your system.

② Network firewall

↳ Software or hardware

It will help to control the traffic - traffic IN or traffic OUT.

③ Abstraction out of Resources.

External entity knows whereabouts of only front facing proxy.

not the hosts serving the request or any database you're retrieving data from.

④ Resource Creation in VPC.

↳ Not accessible directly from Public Internet.

⑤ Networking Rules

Any security group configurations. The Inbound and Outbound rules should be strict to allow the required traffic only.

⑥ Traffic Control

↳ Rate limiting of requests per user/IP address.

↳ Confirm that you're not a robot - CAPTCHA

⑦ Continuous patching of applications.

⑧ Proper logging and monitoring.

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