

CrackLord

Maximizing Password Cracking Boxes

(and other things too)



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Agenda

- Introduction
- Resource Intensity and Laziness
- Our Solution
- Demo Time

Who Are We?

Michael McAtee

- Manager
- Pentester
- SysAdmin
- [something funny here]

Lucas Morris

- Senior Manager
- “Manager”
- Pentester
- Code Monkey



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Introduction

- Centralized Resources
 - In addition to purpose built tools, we now sometimes have purpose built hardware for them
- But how do we share this hardware?
 - Cracked ended (not paused)
 - No idea where the output is
 - Did they even ask?



Resources and Laziness

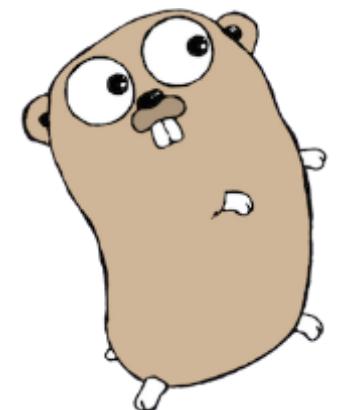
- To share, we may have to break some rules:
 - Shared Accounts
 - Shared GNU Screens
 - Manual Data Cleanup
- Did your co-worker use the right options?
 - Can you even resume their work when you're done?

Resources and Laziness

- We also spent all this money:
 - What happens if the box is sitting idle?
 - How do we prove to management we're using this expensive “toy”?
 - Are we using all of the resources (CPU in addition to GPU)?

Our Solution: CrackLord

- A distributed system of daemons to manage all of these resources and our queue
 - Input to Output are all modular and generic, anyone can write a plugin to wrap tools
 - Will manage jobs between multiple systems
 - Can use Cloud based systems (AWS!)
 - RESTful API that can be scripted into your workflow



Resources and Tools



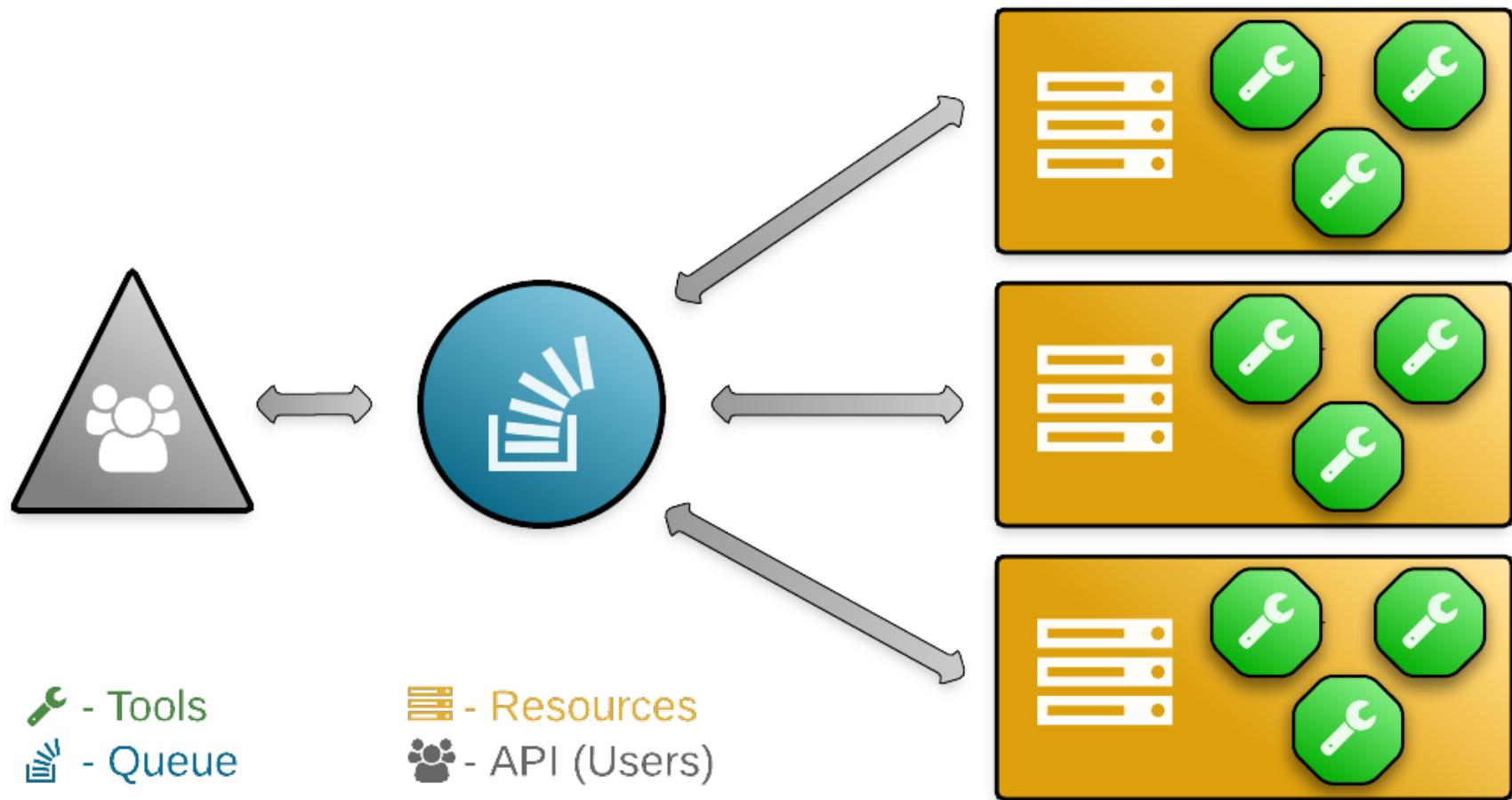
- Resources are the server running on the hardware where the magic happens:
 - Can allow tools to use CPU, GPU, Network, or anything else.
 - Works on both Windows and Linux
- Tools are the Go packages that wrap industry tools.
 - Extensible, you can wrap / do just about anything
 - Tools define the resources they use, and can be configured on individual resources if desired

Queue and API



- The centralized point where everything is managed:
 - API is extensible, tools define what data is requested and what output looks like.
 - Can be reordered easily (drag and drop!)
 - Jobs automatically pause / resume
 - Uses TLS and cert based authentication between resources
 - The API and default GUI are designed to be tool generic, allowing the plugins to define input form and output.

CrackLord: Design





Demo Time



Black Hat Sound Bytes

- CrackLord is extensible to your needs
- Maximize your hardware investments
- BUILD PLUGINS!

Thank You!

<https://github.com/jmmcatee/cracklord>

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