aws

COMMUNITY DAY

MANCHESTER

AWS Systems Manager - Overview

Francisco Edilton | 02/04/2019

About me:

Community:
- AWS Community Hero
- Founder: AWS SP UG and Cloud Girls.

Professional:
- DevSecOps at Trimble Inc. (Rail)

Challenge/Problem

Challenge

- Achieve compliance for long (and short) living instances
- Scalable
- Multi cloud and Hybrid
- Dev power
- Limited Internet access
- Low cost
- WEB/CLI

Solution

AWS Systems Manager

"AWS Systems Manager is a collection of capabilities for configuring and managing your Amazon EC2 instances, on-premises servers and virtual machines, and other AWS resources at scale."

"unified user interface so you can view operational data from multiple AWS services and allows you to automate operational tasks across your AWS resource"

Solution

- Achieve compliance for long (and short) living instances - TAG
- Scalable - Serverless
- Multi cloud and Hybrid - Windows + Linux, also AWS + On-prem
- Dev power - Yeah
- Limited Internet access - Proxy and VPC Endpoints
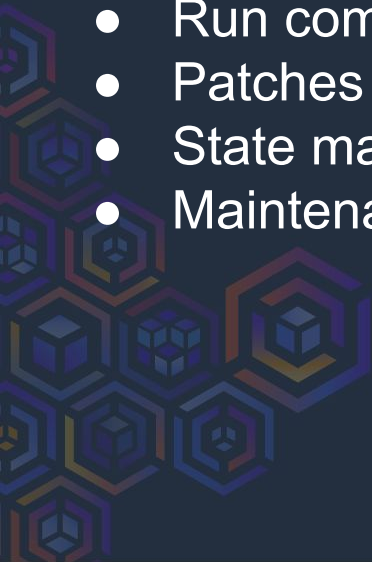- Low cost - FREE!
- WEB/CLI - Check + API!

And now, what can I do?

- Automation (AMI - baseline)
- Compliance (AV, ulimit, fork bomb)
- Run command (SSH, RDP)
- Patches
- State manager
- Maintenance Windows

And now, How do I do?

- Managed Instances
- Parameter Store
- Documents
- State Manager

How to

AWS:
- Create IAM role
- Launch instance (role must be attached)
- Install SSM Agent (default on Windows and Amazon Linux most recent AMI)

On-Premises:
- Create activation
- Install SSM Agent (Windows, RedHat-like, Ubuntu and open source)
- Activate (Id and code)

Examples

- Bastion Host (IAM, Logs, ports)
- Inventory
- Audit changes (Config + QuickSight)
- Patch Compliance
- CI/CD AMI

Quick Demo

Q&A

Thanks - @franciscoed

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