

# Integrating Lambda & Other AWS Services

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# Outline

## **Resource Overview**

- Demo project
- AWS services (SES and S3)
- Python libraries (Boto3 and Jinja2)
- Code skeleton (Cuckoo)

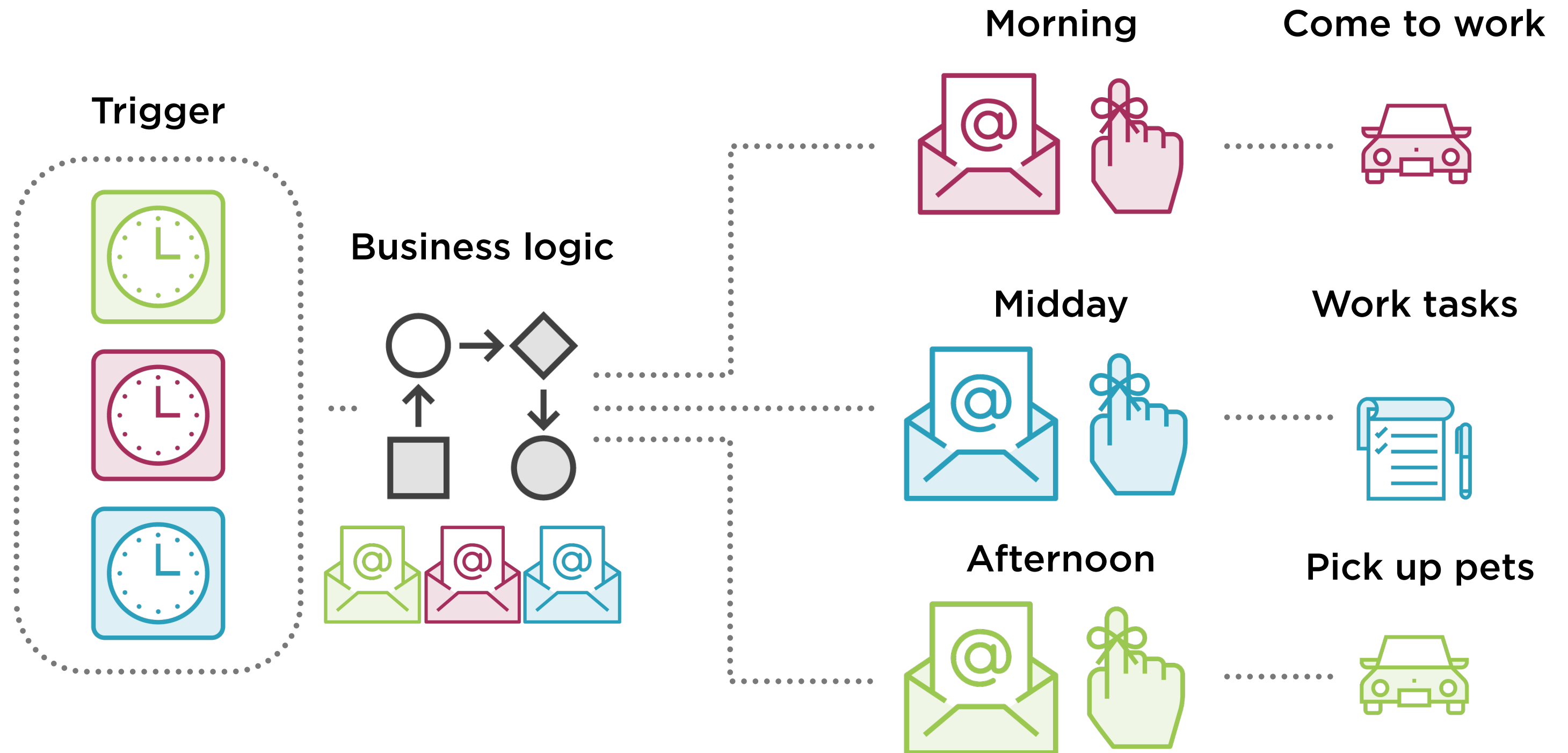
## **Function Setup**

- S3 and Jinja2 templates
- New IAM Role
- SES email verification

## **Deployment**

- Deploying via the AWS CLI

# Cuckoo - Reminder Automation



# Amazon Simple Email Service (SES)



**Inbound mail**



**Outbound mail**

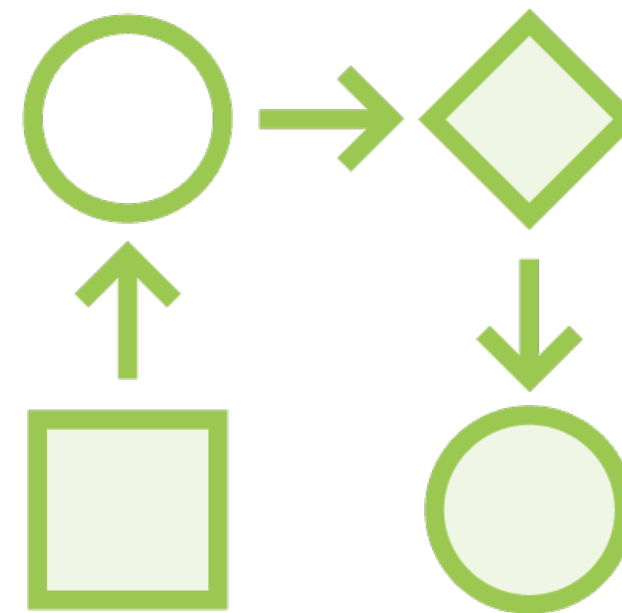
# Benefits of SES



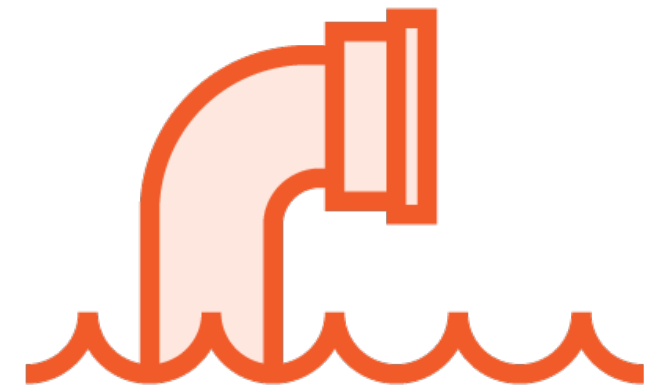
High  
deliverability



Sender statistics

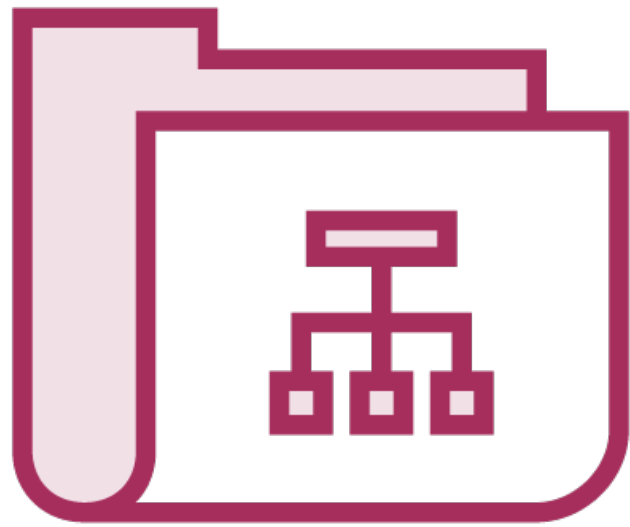


Control flow



Monitoring

# Simple Storage Service (S3)



**Object storage**



**Buckets hold  
objects**



**Global  
namespaces**



**Managed by  
AWS**

# Other Resources



**Python AWS SDK - Boto 3**



**HTML template - Jinja2**

# Cuckoo - Our Skeleton Code



**Reminder types**



**Scheduled times**



**Email templates**



**Mail groups**



# Demo

## **Preparing**

- Install Jinja2
- Setup IAM, S3 & SES
- Event creation via the AWS CLI

## **Review Function Code**

- Modify the Cuckoo skeleton
- Test locally

## **Deploying Cuckoo**

- Dig into setup.sh
- Deploy via the AWS CLI

# Summary

## **AWS Proficiencies**

- Service integrations (S3, SES, KMS)
- Deployment with the AWS CLI
- Manual function package setup
- Broad exposure to AWS via Lambda

## **Next Steps**

- Serverless applications
- Internet of Things
- Other uses of Lambda