

Monitoring & Alerting Checklist

Bash Script Auto EC2 + CloudWatch Setup

Launch an EC2 instance and attach a basic CloudWatch alarm using a shell script. Ideal for testing, demos, or labs.

Requirements

- AWS CLI installed
- EC2 permissions via IAM
- Pre-created key pair, security group, and subnet

Script

```
#!/bin/bash

AMI_ID="ami-0abcdef1234567890"

INSTANCE_TYPE="t3.micro"

KEY_NAME="my-key"

SECURITY_GROUP="sg-0123456789abcdefg"

SUBNET_ID="subnet-0abc123456def"

# Launch EC2

INSTANCE_ID=$(aws ec2 run-instances \
  --image-id $AMI_ID \
  --count 1 \
  --instance-type $INSTANCE_TYPE \
  --key-name $KEY_NAME \
  --security-group-ids $SECURITY_GROUP \
  --subnet-id $SUBNET_ID \
  --query 'Instances[0].InstanceId' \
  --output text)

echo "Launched: $INSTANCE_ID"

# Wait

aws ec2 wait instance-running --instance-ids $INSTANCE_ID
```

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```
echo "Running!"
```

```
# Alarm
```

```
aws cloudwatch put-metric-alarm \  
  --alarm-name "HighCPU-$INSTANCE_ID" \  
  --metric-name CPUUtilization \  
  --namespace AWS/EC2 \  
  --statistic Average \  
  --period 300 \  
  --threshold 80 \  
  --comparison-operator GreaterThanThreshold \  
  --dimensions Name=InstanceId,Value=$INSTANCE_ID \  
  --evaluation-periods 2 \  
  --alarm-actions "" \  
  --unit Percent  
echo "Alarm created."
```

Notes

- Add SNS topic for alarm notifications
- Monitor disk and network metrics optionally

Maintainer

Adesoji Adejoro

Site Reliability & Tech Support Lead

<https://www.adesoji.dev>