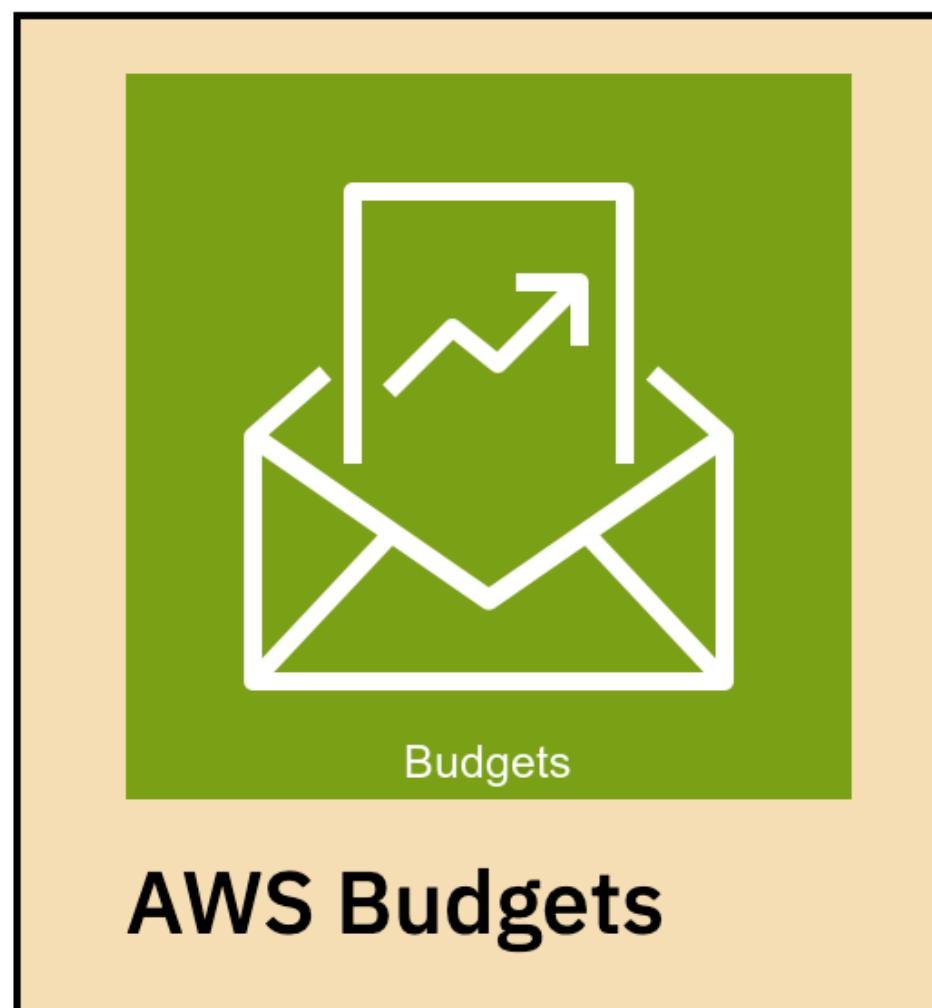


# AWS Budgets

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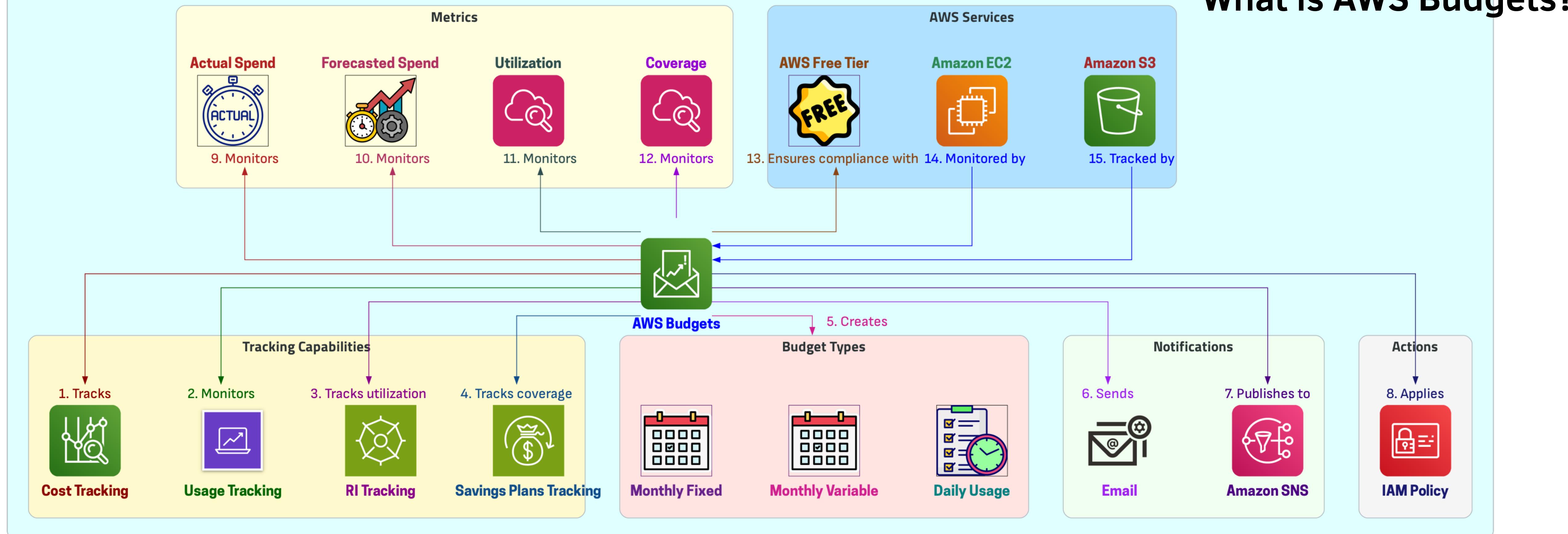
5. Consolidated Billing

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7. AWS Budgets and Cost Explorer Integration

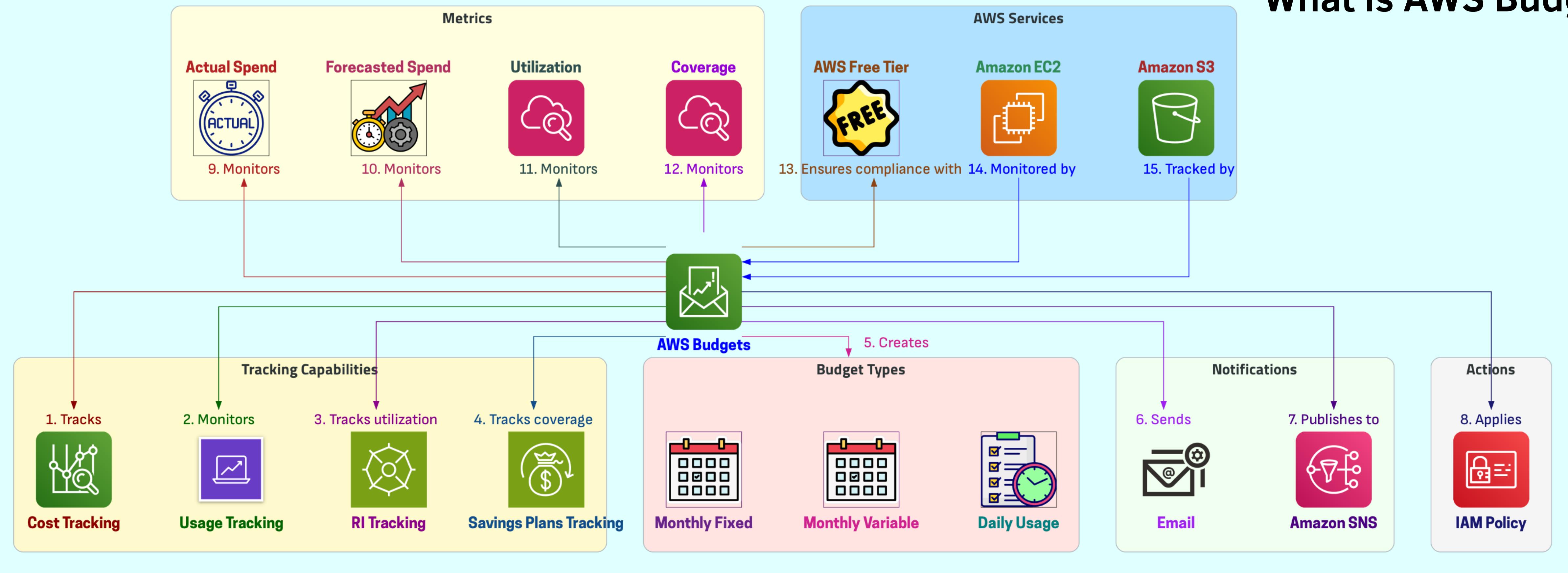
8. Reporting your budget metrics with budget reports

# What is AWS Budgets?



	2. 🔎 Monitor metrics	4. 📅 Monthly cost budget (fixed)
1. 📈 Track and take action	Aggregate utilization	Fixed target amount
\$ AWS costs	Coverage	Track all account costs
Usage	Reserved Instances (RIs)	Actual spend (after accruing)
	Savings Plans	Alerts
		Forecasted spend (before accruing)

# What is AWS Budgets?



## 5. Monthly cost budget (variable)

Growing target (5% monthly)

Notifications at 80% of budget

Action example

Apply custom IAM policy

Deny additional resource provisioning

## 6. Monthly usage budget

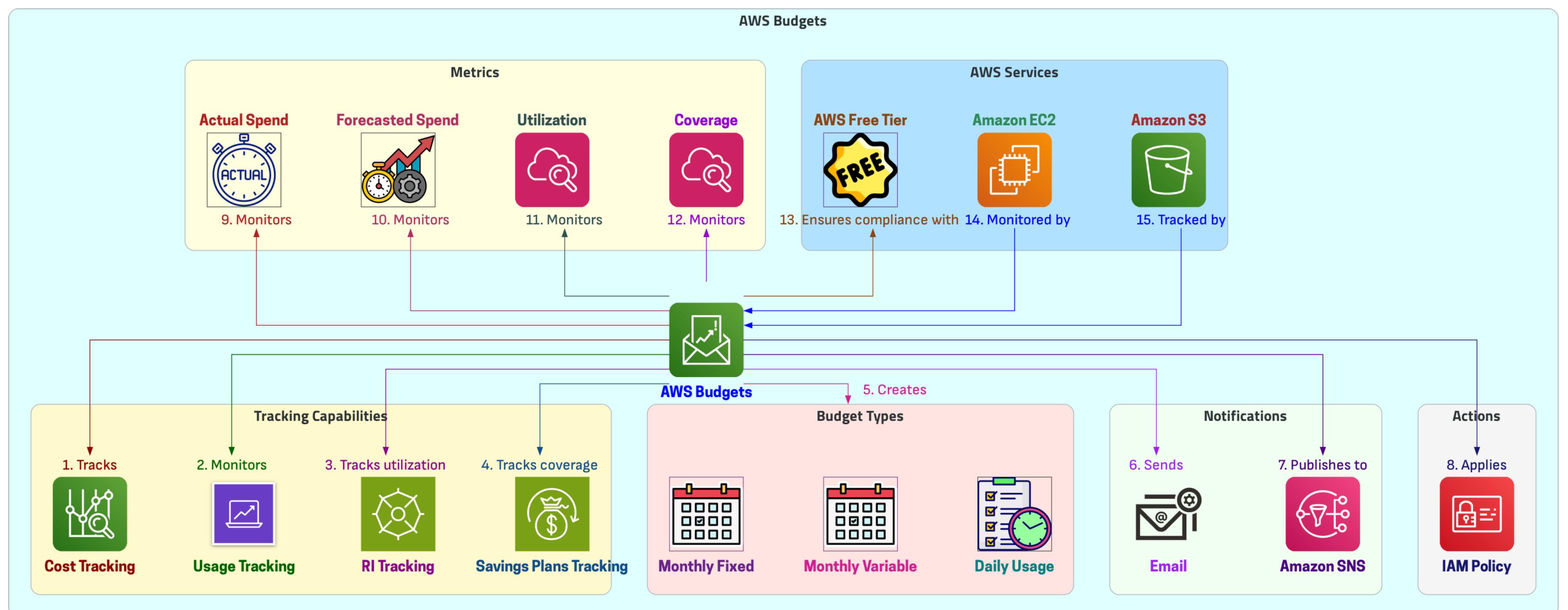
Fixed usage amount

Forecasted notifications

Ensure within service limits

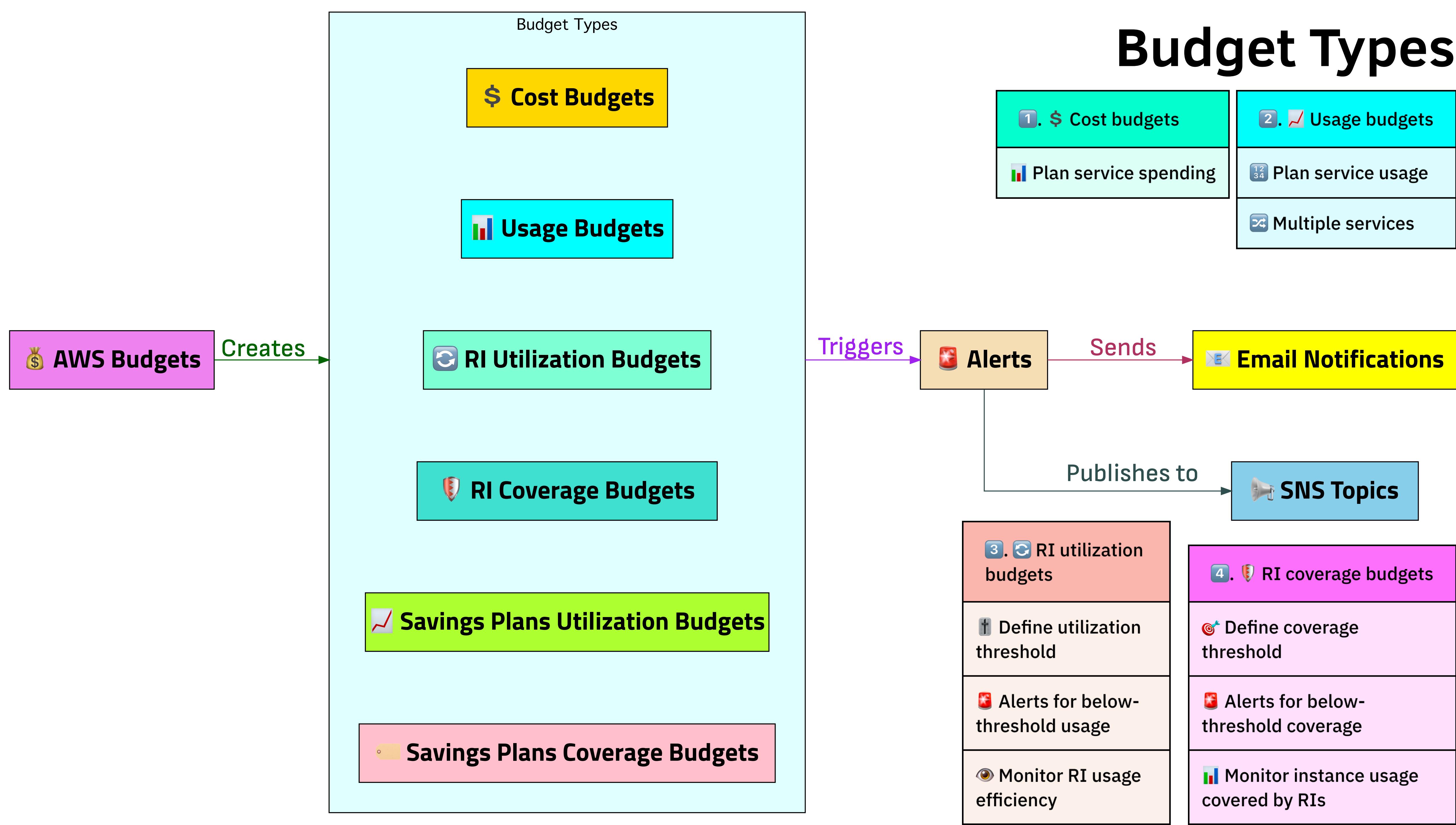
Stay under AWS Free Tier

# What is AWS Budgets?

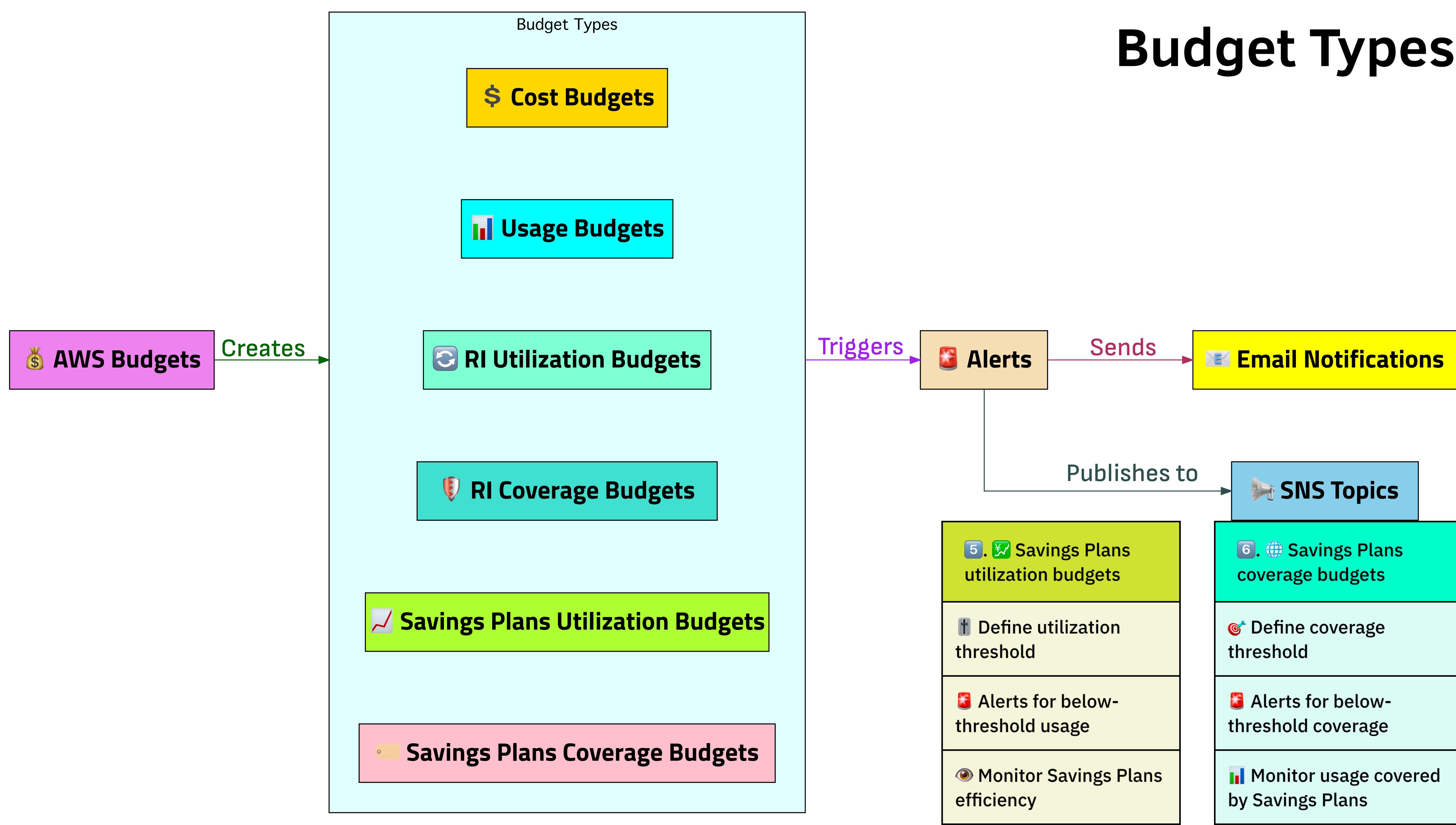


- 7.  Daily budget
-  Utilization tracking
-  Coverage tracking
-  For RIs or Savings Plans
-  Email
-  Amazon SNS topics
-  When utilization < 80%
-  Notifications

# Budget Types



# Budget Types



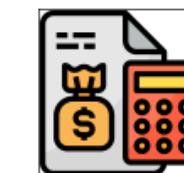
# Update Frequency



⌚ AWS Budgets information is updated up to three times a day. Updates typically occur 8–12 hours after the previous update.



## Budget Tracking Capabilities



Budgets can track your:

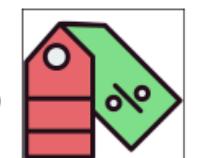
1. Unblended costs 💰
2. Amortized costs ↗
3. Blended costs ✎

## Budget Flexibility



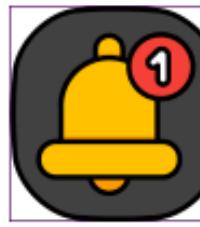
Budgets can include or exclude charges such as:

1. 🛍️ Discounts 🏷️
2. 💰 Refunds ↘
3. 🚧 Support fees 🚧
4. 💲 Taxes 💲





# Optional Notifications

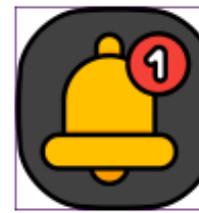


You can set up optional notifications that warn you if you:

1. Exceed, or are forecasted to exceed, your budgeted amount for cost or usage budgets 
2. Fall below your target utilization and coverage for RI or Savings Plans budgets 



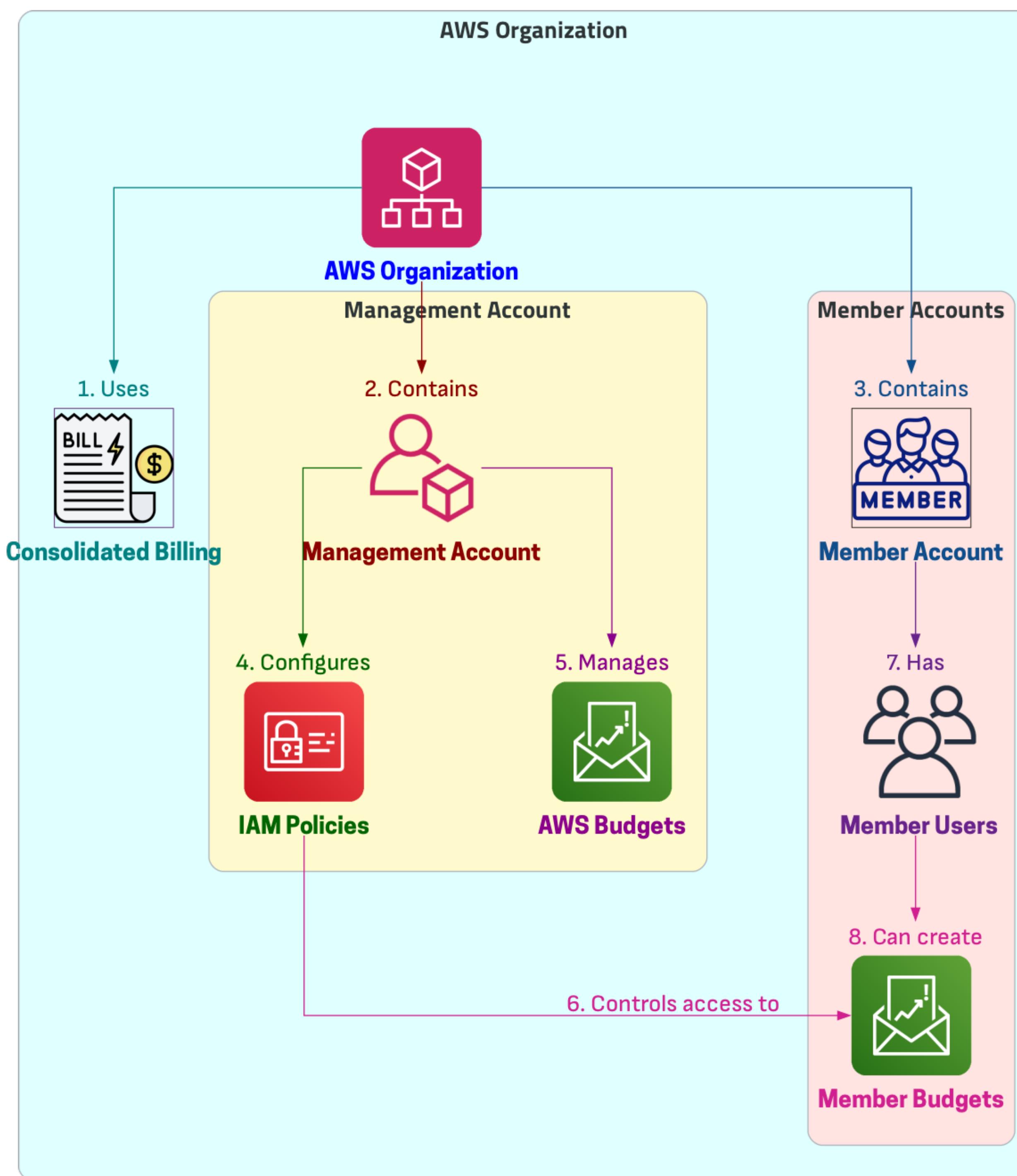
# Notification Delivery Methods



Notifications can be sent to:

1. An Amazon SNS topic 
2. An email address 
3. Both SNS topic and email 

# Consolidated Billing



<b>1. 🏢 Management Account Capabilities</b>	<b>3. 🎭 Custom Roles Creation</b>
🔒 <b>Uses IAM policies</b>	🔧 <b>Create roles with specific permissions</b>
⌚ <b>Controls budget access for member accounts</b>	<b>+ Create budgets</b>
<b>2. 🧑 Member Account Default Permissions</b>	<b>&gt;Edit budgets</b>
✓ <b>Create own budgets</b>	<b>Delete budgets</b>
✗ <b>Can't create/edit others' budgets</b>	<b>Read budgets</b>
<b>4. ⚠ Limitation</b>	<b>🎯 Account-specific permissions</b>
<b>5. 🔍 Budget Visibility</b>	<b>5. 🔍 Budget Visibility</b>
🔒 <b>Limited to account creators and authorized users</b>	🔒 <b>Limited to account creators and authorized users</b>
<b>6. 🏢 Management account can track member account costs</b>	<b>6. 🏢 Management account can track member account costs</b>
<b>7. 🔑 Member accounts need access to view management-created budgets</b>	<b>7. 🔑 Member accounts need access to view management-created budgets</b>

# Best Practices

<b>1.</b> 🔒 User access and permissions
👥 Additional permissions for budget creation
🔧 Unique user roles for Budgets API access
🎯 Precise access controls

<b>2.</b> 🛡️ Budget actions and managed policies	
🧵 Two AWS managed policies	👤 User policy
	💰 Budget policy
🔄 Automatic updates with new functionalities	
⚠️ EC2 Auto Scaling considerations	🚫 Prevent automatic instance restart/replacement

<b>3.</b> 💡 Budget settings
🔁 Recurring budgets recommended
\$ Cost budget aggregation options
🕒 Daily AWS billing data updates

<b>4.</b> 🚨 Budget alerts	
✉️ Up to 10 email recipients	
📢 One Amazon SNS topic per alert	
📊 Actual vs. forecasted alerts	🎯 Actual: Once per budget period
📅 5 weeks of data for accurate forecasts	

<b>5.</b> 📣 Amazon SNS topics for budget alerts
🔑 Proper permissions and subscriptions
🔒 Multi-factor authentication (MFA) recommended

<b>6.</b> 🎫 Tags and access control
🔒 Control access to AWS Budgets resources
👮 Implement resource-level permissions
💻 Manage tags via console or API
⚠️ No tag support for cost allocation

# AWS Budgets and Cost Explorer Integration

## Cost Explorer Graph in AWS Budgets

 When you create a budget in AWS Budgets, a **Cost Explorer graph** is provided to help visualize your incurred costs and usage. 

### First-time Budget Creation

**1.**  If Cost Explorer is not yet enabled, the graph will initially appear blank. 

**2.**  AWS Budgets will automatically enable Cost Explorer when you create your first budget. 

**3.**  It may take up to 24 hours for the graph to appear after Cost Explorer is enabled. 



 You can proceed with creating your budget even if Cost Explorer is not yet enabled. 

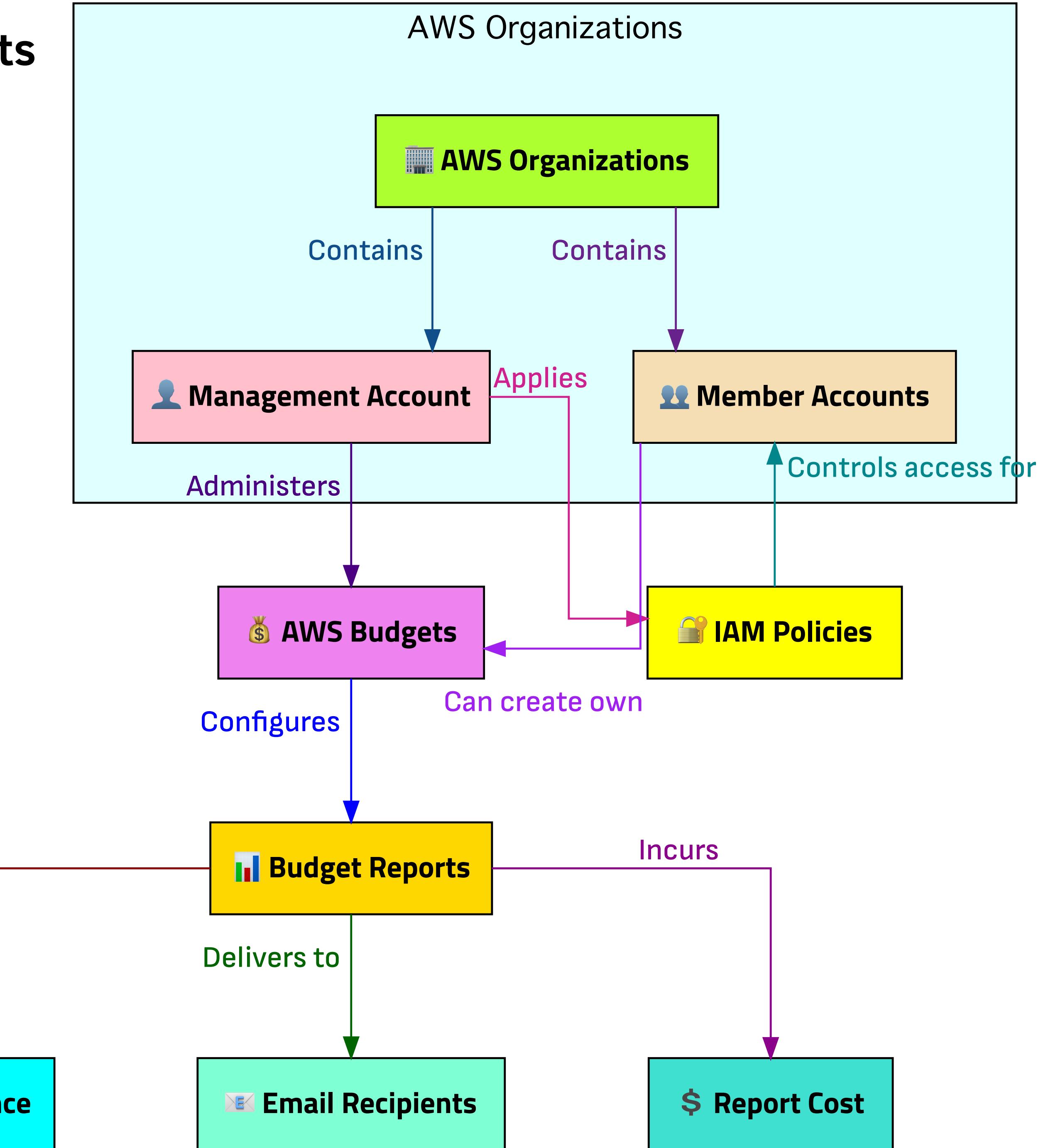


 For quicker access to cost data, consider enabling Cost Explorer manually before creating your first budget. 

# Reporting your budget metrics with budget reports

1.  Budget Report Configuration	
Monitoring cadence	Daily
	Weekly
	Monthly
Delivery	Up to 50 email addresses

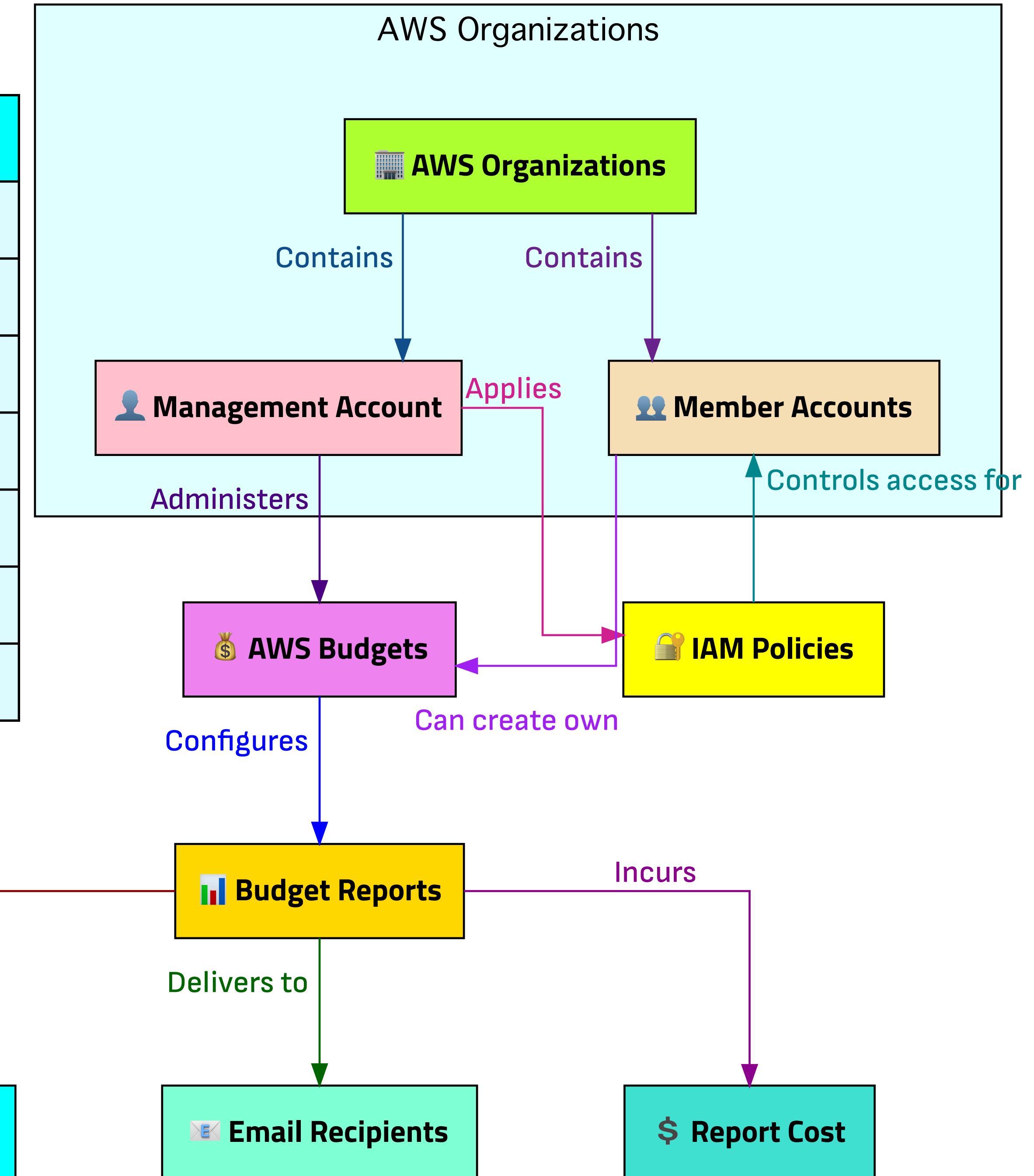
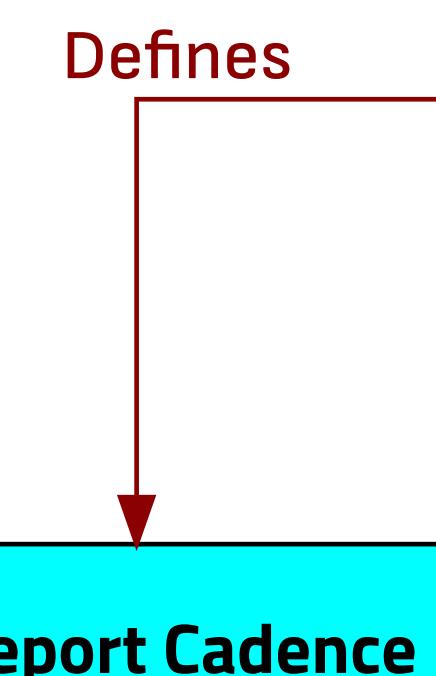
Report Cadence



# Reporting your budget metrics with budget reports

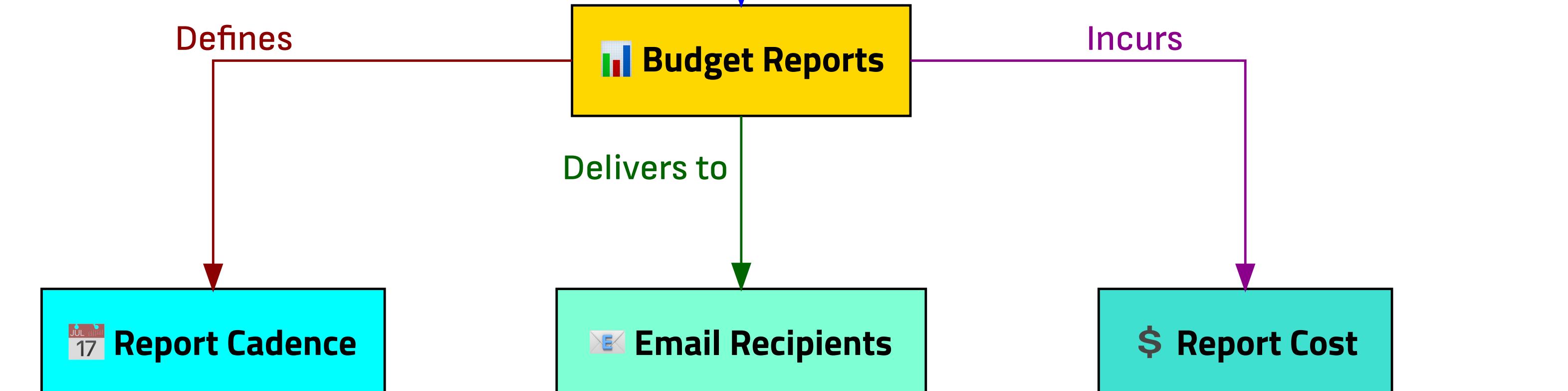
## 2. Report Limitations and Pricing

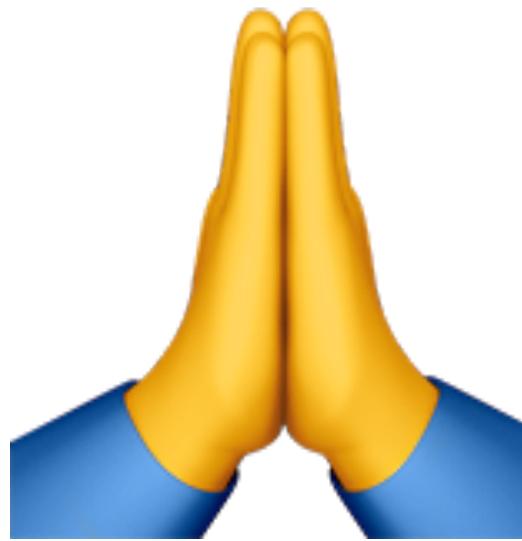
Up to 50 reports per account <small>12 34</small>	Standalone account
	AWS Organizations management account
\$ Pricing	\$ \$0.01 USD per report delivered
	Regardless of recipient count
Cost	Daily: \$0.01/day
	Weekly: \$0.01/week
	Monthly: \$0.01/month



# Reporting your budget metrics with budget reports

3. 🔒 Access Control for Organizations		
🏢 Consolidated billing	👑 Management account capabilities	🛡 IAM policies control
👤 Member account default permissions		<input checked="" type="checkbox"/> Create own budgets <input type="checkbox"/> Can't create/edit others' budgets
🔒 Extended permissions via IAM		<input type="checkbox"/> Create <input type="checkbox"/> Edit <input type="checkbox"/> Delete <input type="checkbox"/> Read





**Thanks  
for  
Watching**