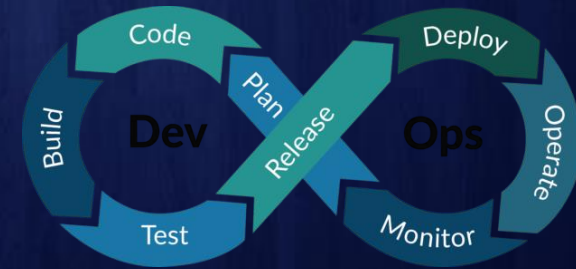


AWS SAA + SysOps + Developer + DevOps Course #Day-12

We will start at **8 AM**,
Stay tuned



RAKESH TANINKI

LEARN TO UNLEARN





Recap:

- Service linked Role
- Pass Role
- Credentials Report – Demo
- Access Analyzer – Demo
- AWS Organizations
 - Creation
 - Adding existing accounts
 - Adding new accounts
 - Organizational Units (OU)
 - SCP – Service Control Policy
- Demos

Today's topics:

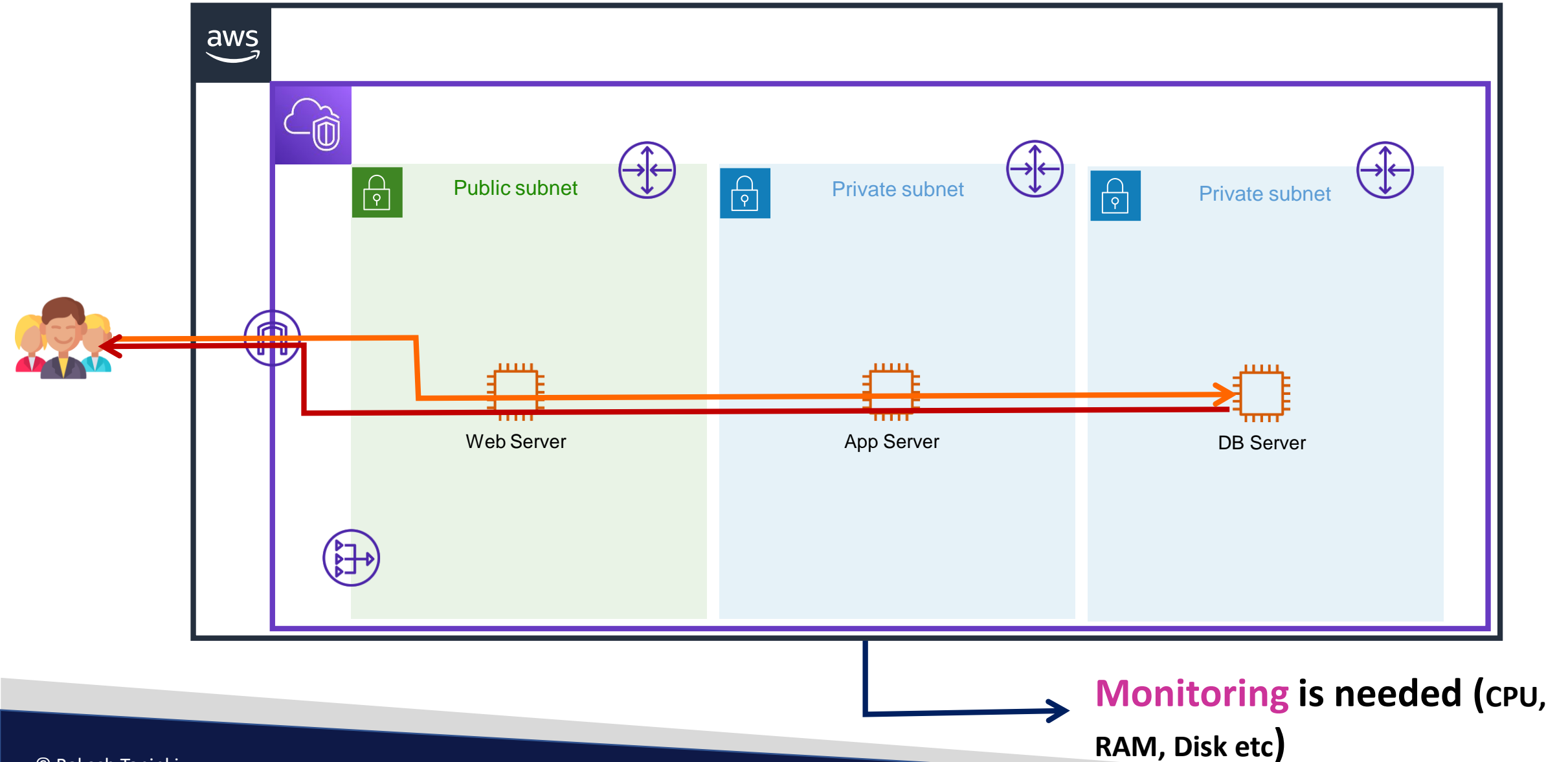


- **AWS Cloud Watch.**
 - Metrics
 - Alarms
 - Logs
 - Events (basics)
 - Demo
 - Dashboards Demo
- **AWS Cloud Watch Logs**
- **AWS Cloud Trail**
 - Demo

AWS Cloud Watch



AWS Cloud Watch



AWS Cloud Watch

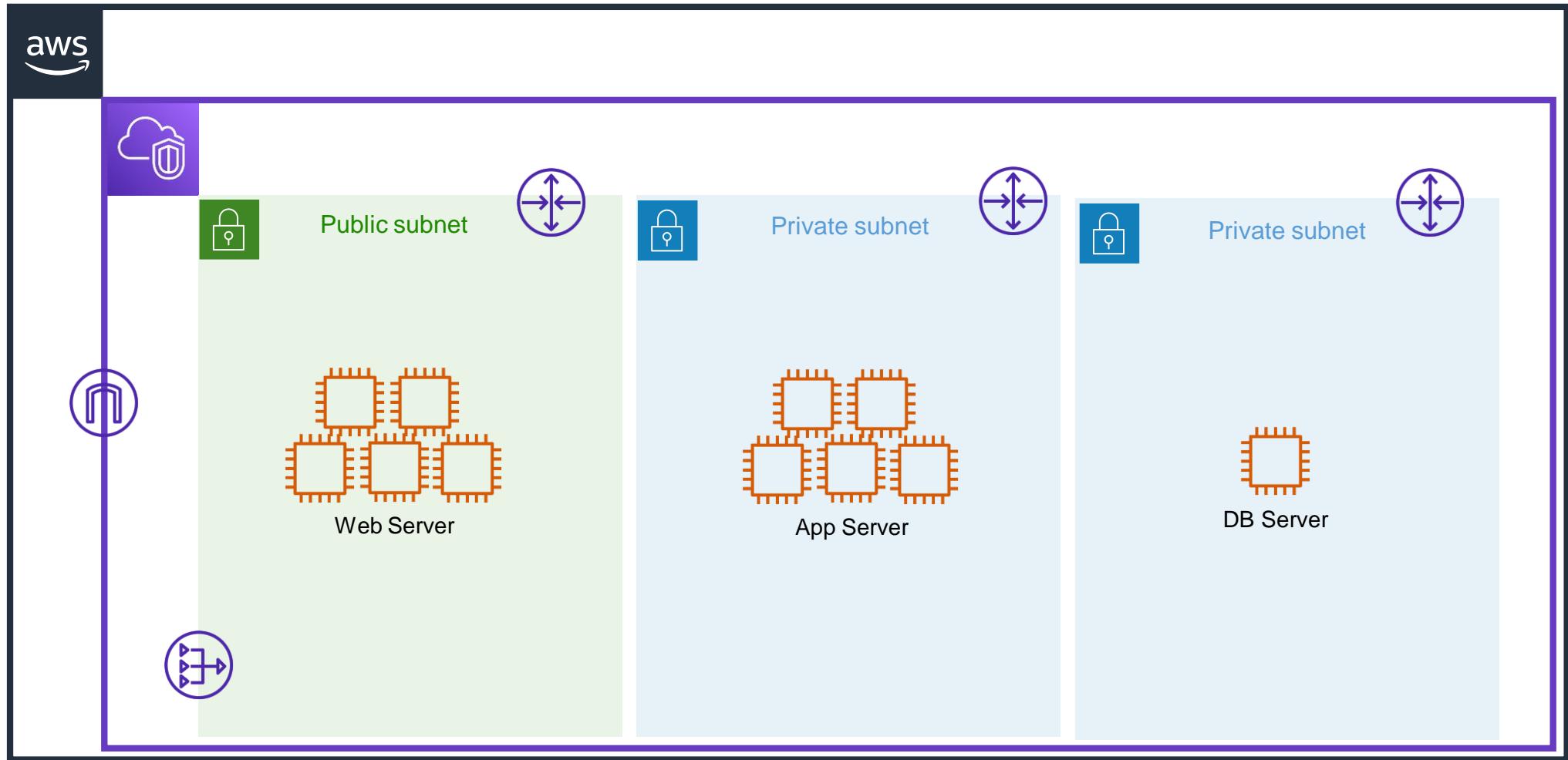
Task Manager

File Options View

Processes Performance App history Startup Users Details Services

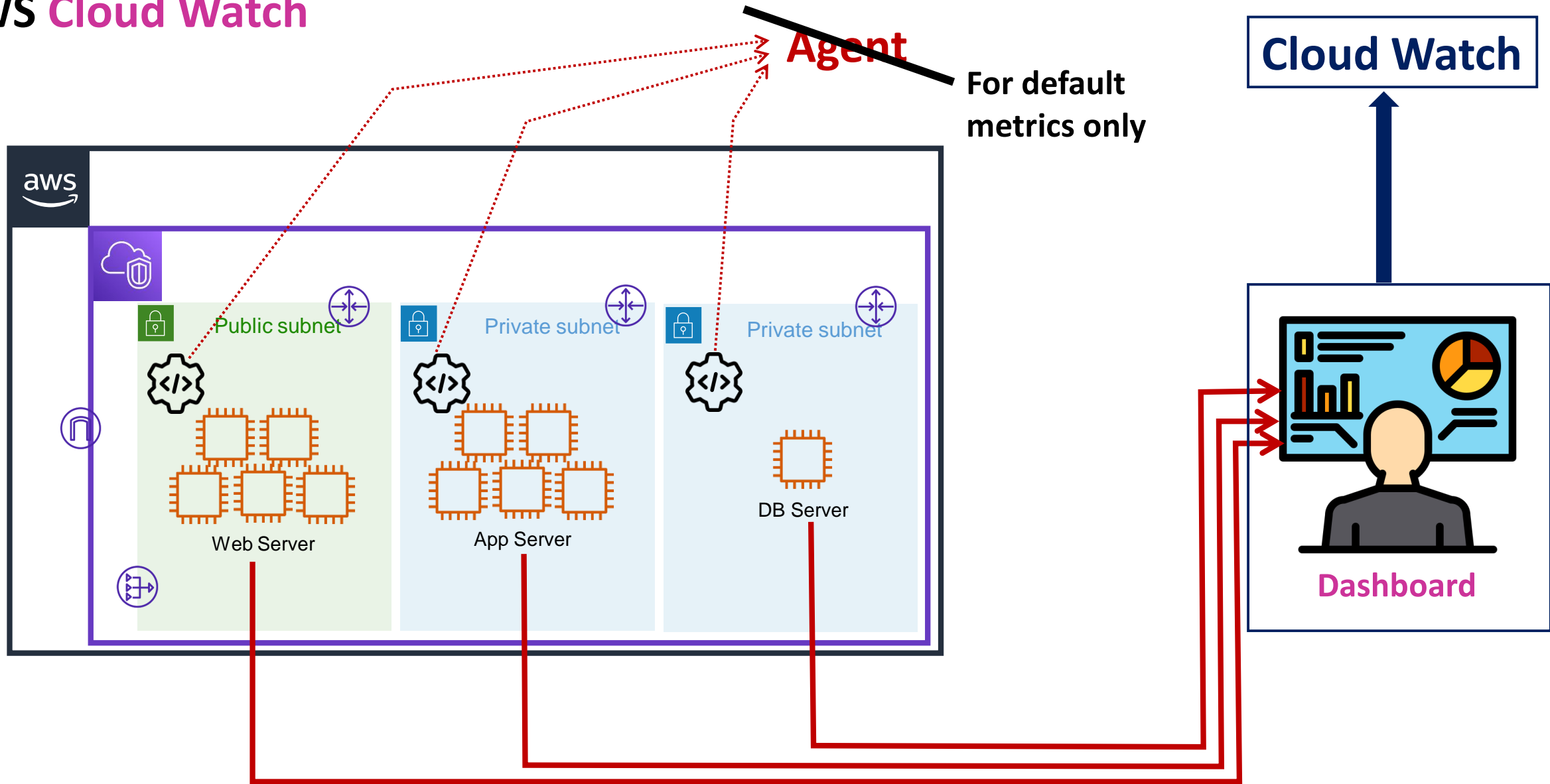
Name	Status	25% CPU	60% Memory	1% Disk	0% Network	28% GPU	GPU engine
> Microsoft PowerPoint (2)		17.0%	217.6 MB	0 MB/s	0 Mbps	18.6%	GPU 0 - 3D
> Brave Browser (21)		0.4%	1,404.1 MB	0.1 MB/s	0 Mbps	0.4%	GPU 0 - 3D
> Microsoft Teams (8)		1.5%	466.3 MB	0.1 MB/s	0 Mbps	0%	
Firefox		0.1%	342.7 MB	0 MB/s	0 Mbps	0%	
> Firefox (7)		0.1%	290.4 MB	0 MB/s	0.1 Mbps	0%	
> Antimalware Service Executable		0.4%	174.0 MB	0 MB/s	0 Mbps	0%	
Brave Browser		0%	172.1 MB	0 MB/s	0 Mbps	0%	
Brave Browser		0%	150.7 MB	0 MB/s	0 Mbps	0%	
Brave Browser		0%	123.5 MB	0 MB/s	0 Mbps	0%	
Brave Browser		0%	91.6 MB	0 MB/s	0 Mbps	0%	
Brave Browser		0.1%	88.1 MB	0 MB/s	0 Mbps	0%	
Firefox		0%	82.0 MB	0 MB/s	0 Mbps	0%	
Brave Browser		0%	64.7 MB	0 MB/s	0 Mbps	0%	
Brave Browser		0%	62.6 MB	0 MB/s	0 Mbps	0%	
> Windows Explorer		0.9%	54.2 MB	0.1 MB/s	0 Mbps	0.1%	GPU 0 - 3D
> Task Manager		0.7%	30.2 MB	0.1 MB/s	0 Mbps	0%	

AWS Cloud Watch

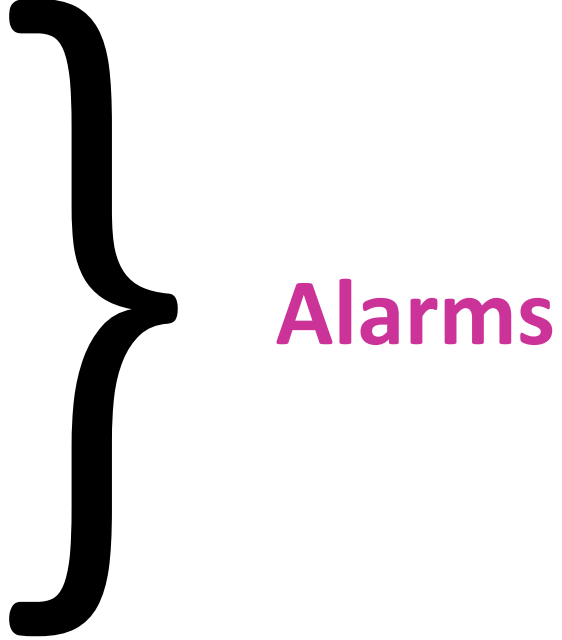


Difficult to monitor one by one

AWS Cloud Watch

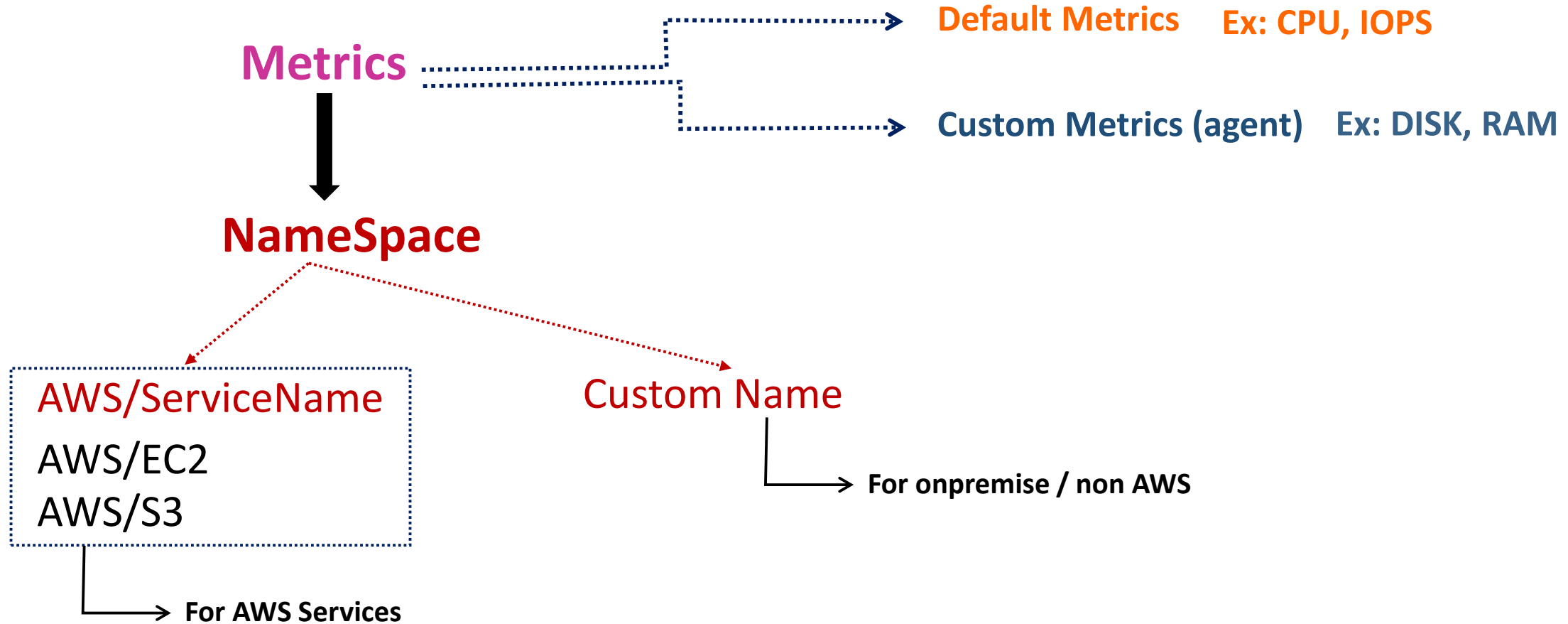


AWS Cloud Watch

- **Metrics**
 - CPU
 - RAM
 - DISK
 - Network
 - **Logs**
 - Application logs
 - DB logs
 - **Events**
 - Time based triggers
 - Pattern based triggers
- 
- Alarms**

AWS Cloud Watch - Metrics

- CPU, RAM, DISK storage, IOPS, Network IOPS, etc.



AWS Cloud Watch - Metrics

CPU
→

Datapoint

→ Timestamp = 2023-02-10T20:30:10Z

→ Value = 81.52

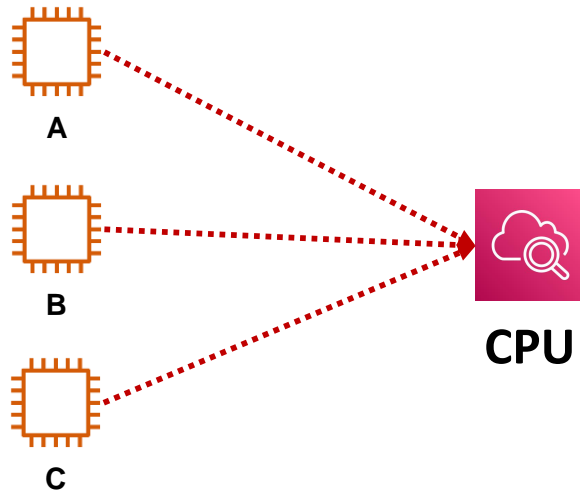
↓
Time Interval / Granularity

1. **Default** Monitoring (Ex: 5 min)
2. **Detailed** Monitoring (Ex: 1 min)

AWS Cloud Watch - Metrics

Dimension

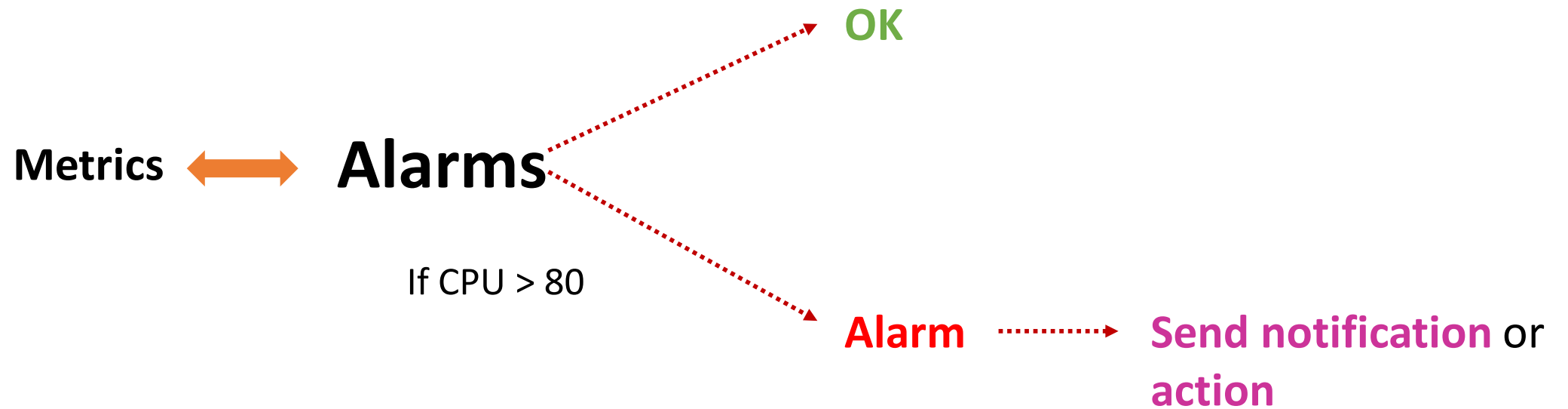
Namespace = AWS/EC2



Name=InstanceId, Value=i-1234578

Name=InstanceType, Value=t2.micro

AWS Cloud Watch - Metrics

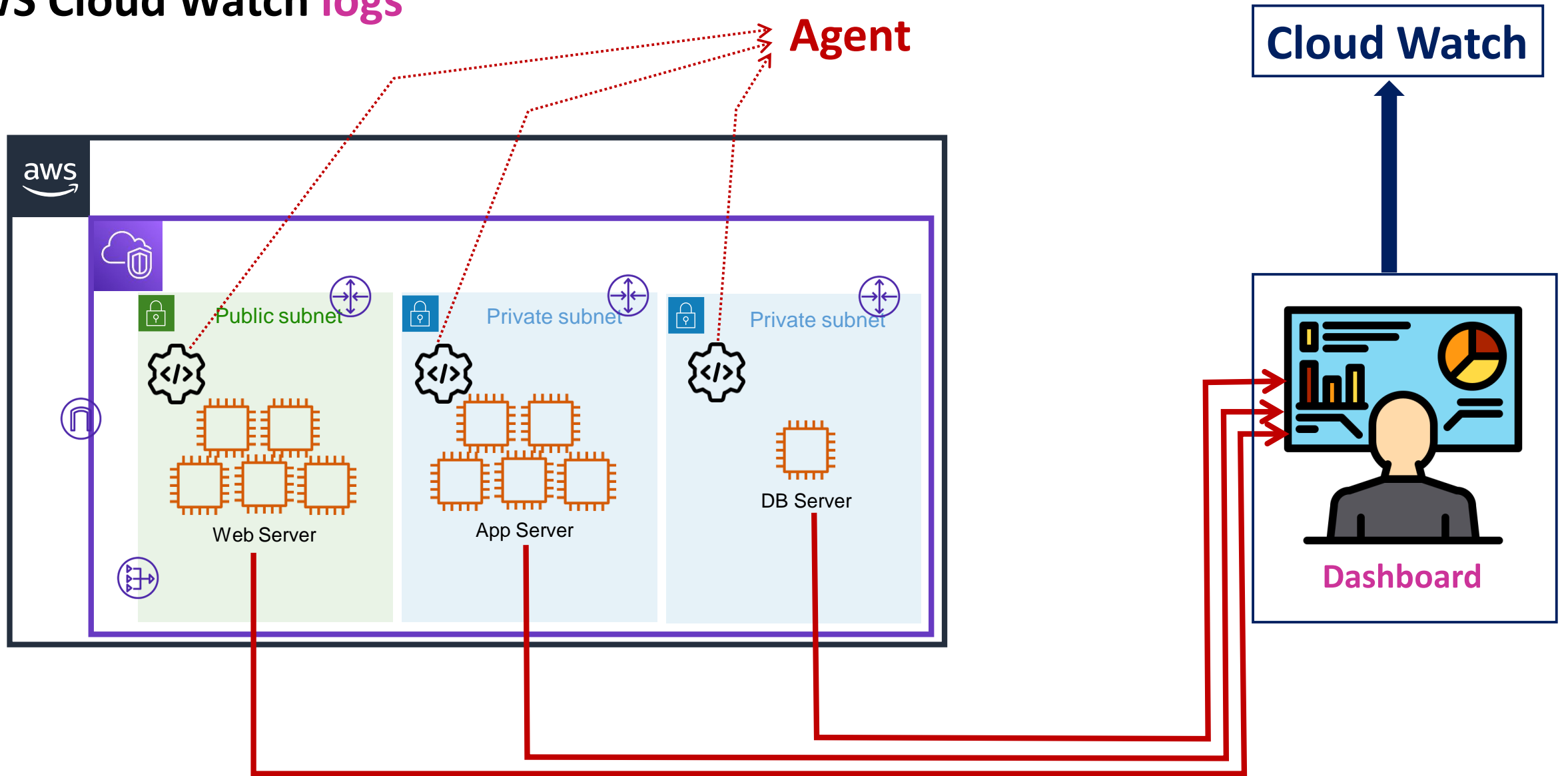


AWS Cloud Watch Demo

AWS Cloud Watch Logs

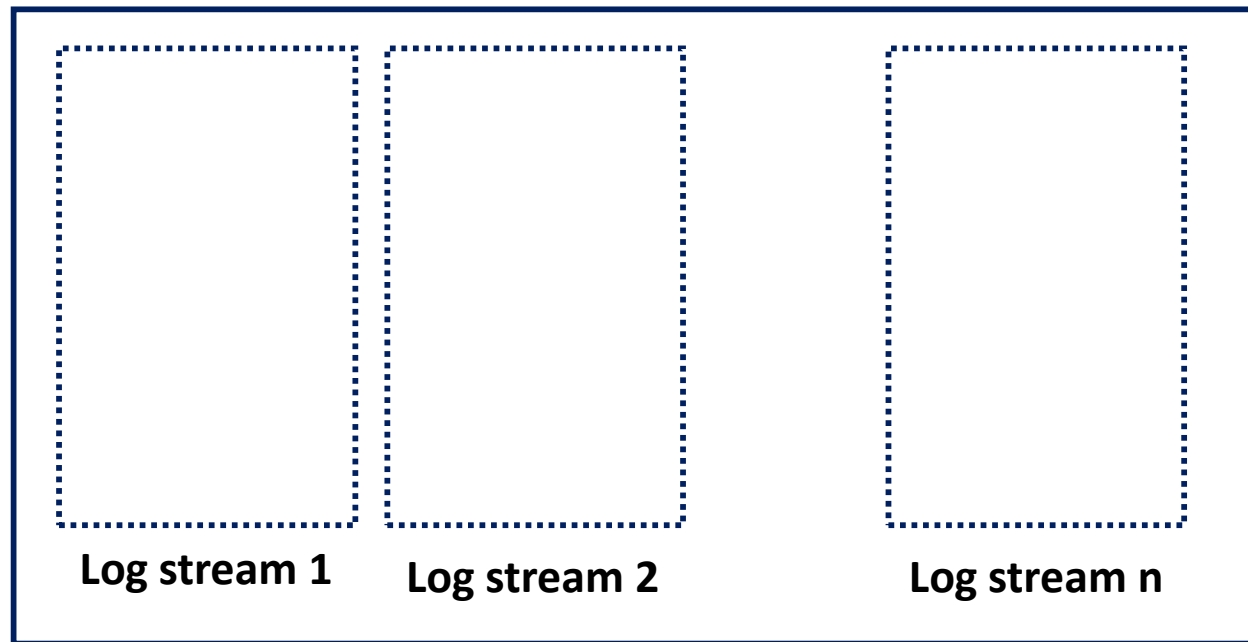


AWS Cloud Watch logs



AWS Cloud Watch **logs**

- All **managed AWS services** are by-default integrated
- Ex: VPC flow logs, Guard duty logs, Cloud Trail logs, etc.
- On-premise logs are also allowed



Log Group

AWS Cloud Watch – **Key Points**

- **Cloud Watch is a public service**
- **Regional service**
- **Metrics, Logs, Events, Alarms**
- **Default or detailed monitoring (extra cost)**
- **Default metrics / custom metrics (agent)**
- **Custom logs (agent)**

AWS Cloud Trail



AWS Cloud Trail

- Logs API calls / activities as a Cloud Trail event
- Enabled by default – at no cost
- **90 days** logs stored by default in **event history**
- To store more than 90 days or process the logs data .. Create 1 or more trails
- **Management** events or **Data** events
- **One region** or **multi region** trails
- Global service events will be logged in **us-east-1** region
- Can be integrated with S3, Cloud Watch logs
- Not real time, delay is there

AWS Cloud Trail Demo



Thank you, will meet in tomorrow's session

