

AWS Foundation

Monitoring - CloudWatch Part II



Agenda



1 Dashboard

3 Alarms

5 CloudWatch Logs

2 Demo

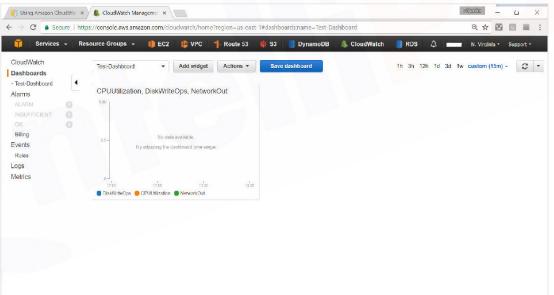
4 Demo





Dashboards

Dashboards are pages in the console which can be used to put all the important statistics deemed important at one place.





Demo 1: Dashboard & Metrics stats

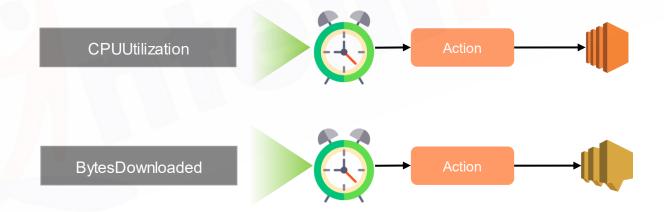
- Create a Dashboard AWS-foundation-dashboard.
- Add widgets for EC2, ELB and S3.
- Graph Options.
- Graphed Metrics.
- Edit a widget.
- Rename the graph.
- View Statistics for metrics for a specific resource.





Alarms

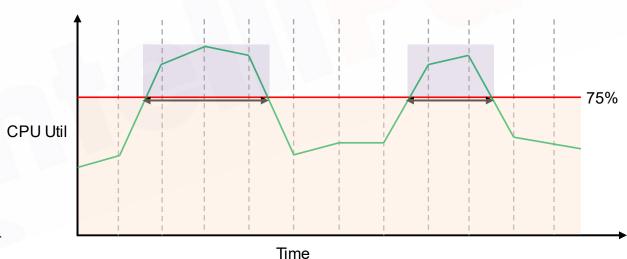
- Alarms watch over metrics and metrics only.
- Alarms can be set to take action based on metrics data.





Alarms

Alarm Threshold and Period. (Threshold of 75% for 3 consecutive times)



- Alarm States
- OK Within Threshold.
- ALARM Crossed Threshold.

INSUFFICIENT_DATA - Metric not available/ Missing data (Good, Bad, Ignore, Missing).

Demo 2: Alarm



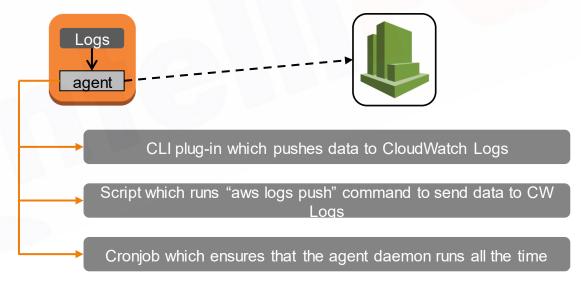
Alarms

- Create an Alarm.
- Alarm should monitor CPUUtilization of an EC2 instance.
- Decide on the Threshold and period.
- Provision all the 3 actions SNS, Auto Scale and EC2 instance termination.
- Create Billing Alarm.



Logs

- CloudWatch logs are used to monitor, store and access log files from various AWS resources including EC2 etc.
- How does it work:





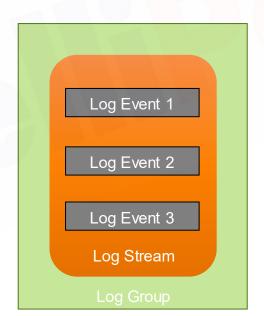
CloudWatch Log Components

Log Events: Record of some activity recorded by the application being monitored.

Log Streams: Sequence of log events from the same source

Log Groups: Group of Log Streams.

Metric Filters: Customized metrics created from received log data.





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Installing Logs Agent

Install and configure the agent

sudo yum install -y awslogs

/etc/awslogs/awscli.conf

/etc/awslogs/awslogs.conf

sudo service start awslogs

/var/log/awslogs.log

sudo chkconfig awslogs on





Logs Config File

Config File: Contains information needed by "aws logs push" command.

```
General Section:
state_file
logging_config_file
```

```
Logstream Section:

log_group_name = value

log_stream_name = value

file = value

batch_count = integer

batch_size = integer
```





- Configure log agent in an EC2 instance.
- Create log group.
- Use Filter patterns.
- Export data to S3.

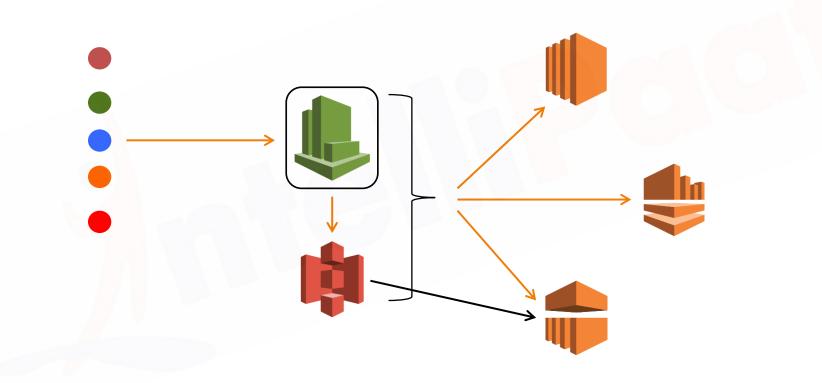




- Free Tier
 - 3 dashboards up to 50 metrics per month
 - Basic monitoring at 5 mins interval of EC2, EBS, ELB, RDS are free.
- https://aws.amazon.com/cloudwatch/pricing/
- Pricing
 - Dashboards: \$3.00 per dashboard per month
 - Detailed monitoring for EC2 instances
 - Custom Metrics
 - Alarms: \$0.10 per alarm/month
 - CloudWatch Logs
 - CloudWatch Events

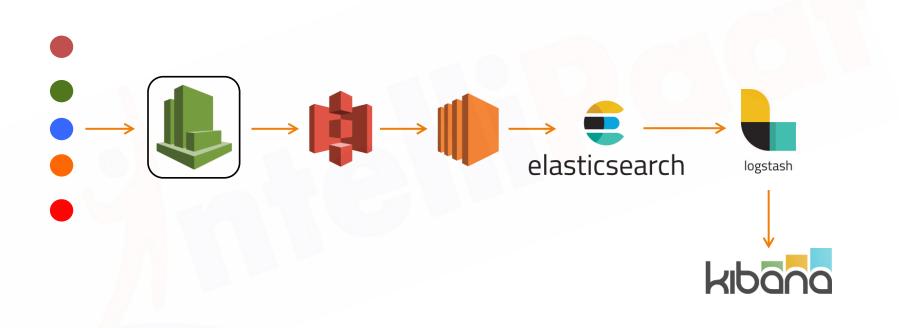






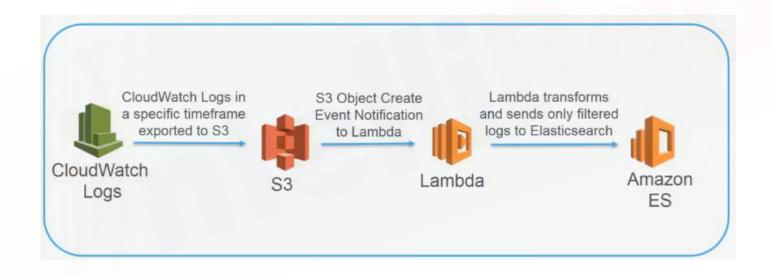
Design Patterns





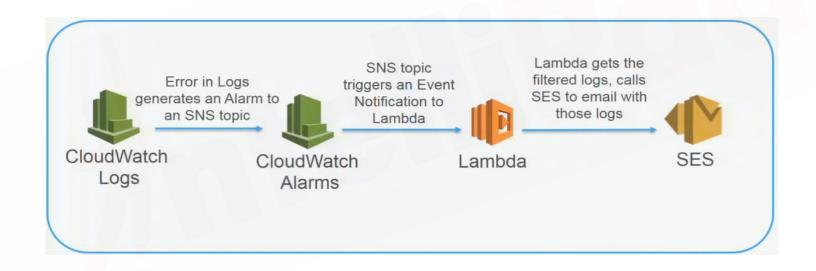






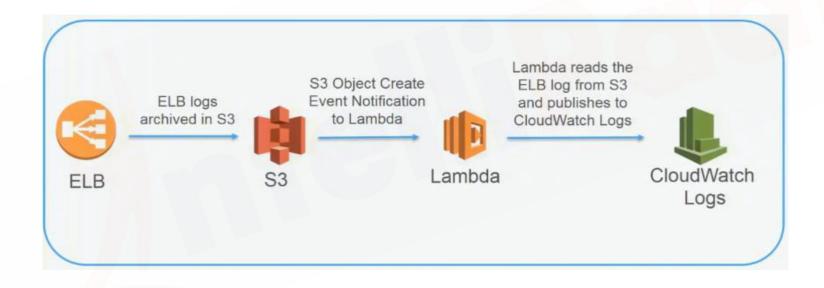
























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