What is Amazon CloudWatch Logs?





Monitor, store, and access your log files from Amazon EC2 instances, AWS CloudTrail, and other sources. You can then retrieve the associated log data from CloudWatch Logs.

Amazon CloudWatch Logs Overview aws training and certification

- Monitor and troubleshoot systems and applications using existing system, application, and custom log files.
 - Monitor logs for specific phrases, values, or patterns.
 - Amazon EC2 instances, AWS CloudTrail, and other sources.
- Retrieves the associated log data from CloudWatch Logs.
- Includes an installable agent for Ubuntu, Amazon Linux, and Windows at no additional charge.

Use Cases for CloudWatch Logs



- Track the number of errors that occur in the application logs and send a notification whenever the rate of errors exceeds a specified threshold.
 - Uses the log data for monitoring; no code changes required.
- Monitor application logs for specific literal terms (such as "NullReferenceException").
- Create alarms in CloudWatch and receive notifications of particular API activity as captured by CloudTrail.
 - Use the notification to perform troubleshooting.
- Store log data in highly durable storage.
 - 6 Change the log retention setting so that any log events older than this setting are automatically deleted.

CloudWatch Logs Components



CloudWatch Logs Agents

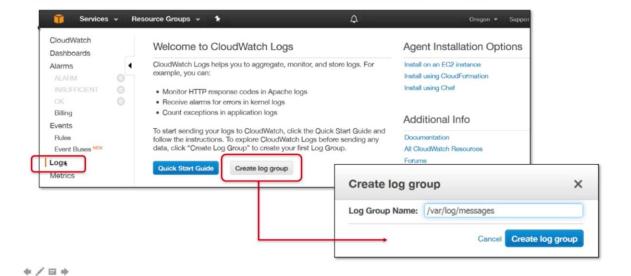
- Automated way to send log data to CloudWatch Logs from Amazon EC2 instances.
- Agent components:
 - A plug-in to the AWS CLI that pushes log data to CloudWatch Logs.
 - A script (daemon) that initiates the process to push data to CloudWatch Logs.
 - A cron job that ensures that the daemon is always running.

Log Group

- A group of log streams that share the same retention time, monitoring, and access control settings.
- Each log stream must belong to one log.

Create Log Group (1 of 2)

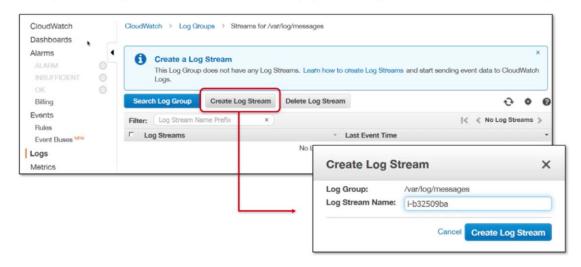




Create Log Stream (1 of 2)

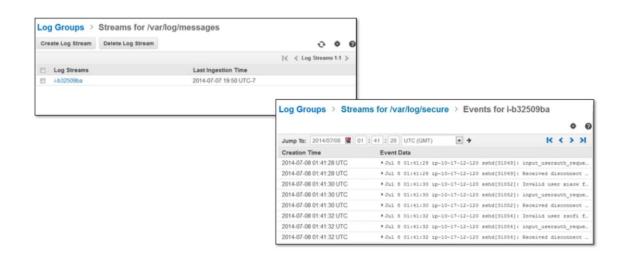


Sequence of Log Events from the same source (a particular application instance or resource).



Create Log Stream (2 of 2)



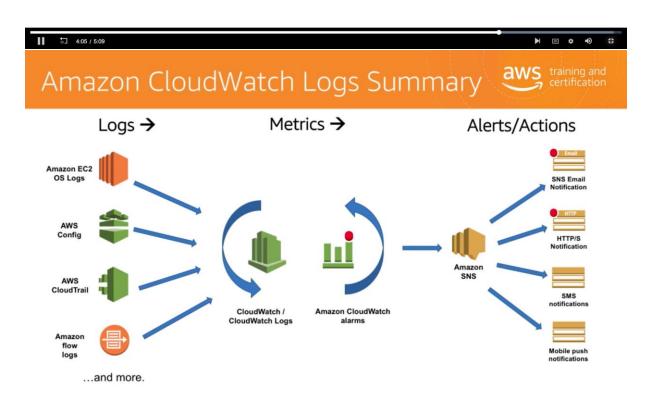


Start Sending Log Data to CloudWatch Logs aws training and certification



Install and configure the CloudWatch Logs agent to send your logs to the CloudWatch Logs service. Create metric filters to automatically monitor the logs sent to CloudWatch Logs. View the log data you have sent and stored in CloudWatch Logs.

Access



AWS Management Tools





Amazon CloudWatch

Monitor resources and applications



AWS CloudFormation



AWS Config



AWS Service Catalog



AWS CloudTrail



AWS OpsWorks



AWS Trusted Advisor



AWS Managed Services

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Introduction





Amazon CloudWatch



Track resource and application performance



Collect and monitor log files



Get notified when an alarm goes off

Amazon CloudWatch Terms





Amazon CloudWatch



Metric



Alarm



Events

CloudWatch Alarm Examples



Amazon EC2



If CPU utilization is > 60% for 5 minutes...

Amazon RDS



If the number of simultaneous connections is > 10 for 1 minute...

Elastic Load Balancing



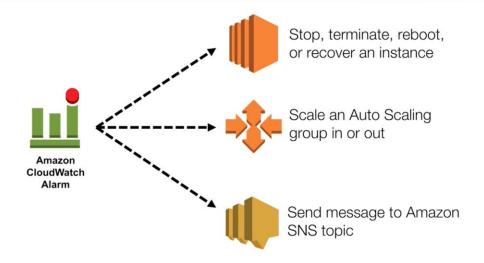
If number of healthy hosts is < 5 for 10 minutes...

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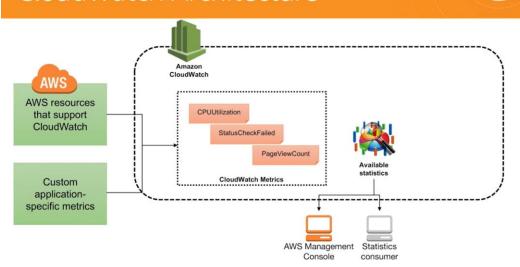
CloudWatch Alarms and Actions





CloudWatch Architecture

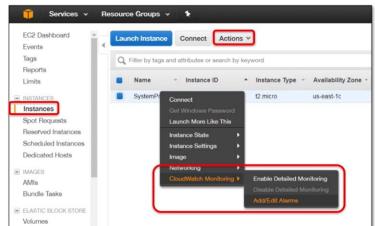




Creating an Alarm



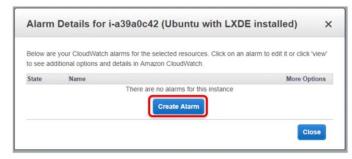




Creating an Alarm







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Creating an Alarm



