

AWS Summits

2014

Amazon Linux

Operating System of the Cloud

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Amazon Design Center Germany

- Founded in March 2013
- Offices in Berlin, Dresden and Munich
- Amazon global competency centers for
 - Kernel and Operating systems
 - Machine Learning
- Quickly growing!

What's Amazon Linux?

- A Linux operating system for AWS customers
- It's RPM based
- Enterprise class Linux
- Rolling upgrades
- Binary compatible with RHEL
- The foundation for most AWS services
- The OS that drives AWS

Amazon Linux AMI – Why build it?

- AMI = Amazon Machine Image
- Initial offering due to customer requests.
- No additional cost.
- Comes from a trusted supplier
- We fully control the speed of security updates
- Well integrated with all AWS services
- Optimized for AWS instance types
- Easy starting point for custom AMIs.
- Tight integration with all EC2 instance types.

Amazon Linux AMI – Design

- We can design specifically for EC2.
 - Minimal kernel configuration.
 - AWS integration in default install.
 - Multiple flavors for different instance types.
- RHEL 6 / EPEL 6 compatible.
- Faster (and smoother) rate of change than RHEL, but still less change than Fedora.

Amazon Linux AMI – Release Cycle

- Rolling release for a consistent experience.
- AMIs are just a snapshot in time.
 - New AMIs every 6 months.
 - New AMIs when needed for upstream security.
 - New AMIs when needed for EC2 features
 - G2, Enhanced Networking, S3-backed PV and HVM are recent examples.
- Frequent repository updates.

Amazon Linux AMI – Security

- Minimal and secure out of the box.
- No root login allowed by default.
- Security center with RSS feed for updates.
- Automatic updates of Critical / Important packages on first launch.
- Critical CVE fixes pushed within 24 hours.
- Regular cadence for repository updates.
- New AMIs at least twice per year.

Open and Customizable to your needs

- Minimal AMIs provided as a starting point.
- Other AWS services build on top of Amazon Linux AMI
 - Beanstalk
 - ELB
 - OpsWorks
 - Downstream vendors in AWS Marketplace
 - And many more!

Linux in EC2 is used for...

- On-demand build boxes.
- QA and testing for numerous projects.
- Experimenting and tinkering at low cost.
- Resource intensive compute tasks.
- Scaling your environments quickly.
- And many other use cases!

Foundational building block for AWS

- Amazon Linux AMI is used by the public as well as other AWS services.
- My team is responsible for all internal Linux work, since Linux and virtualization is a critical part of Amazon's entire infrastructure.
- We are hiring for all Linux-related jobs!

More information

- Amazon Linux AMI

<http://aws.amazon.com/amazon-linux-ami>

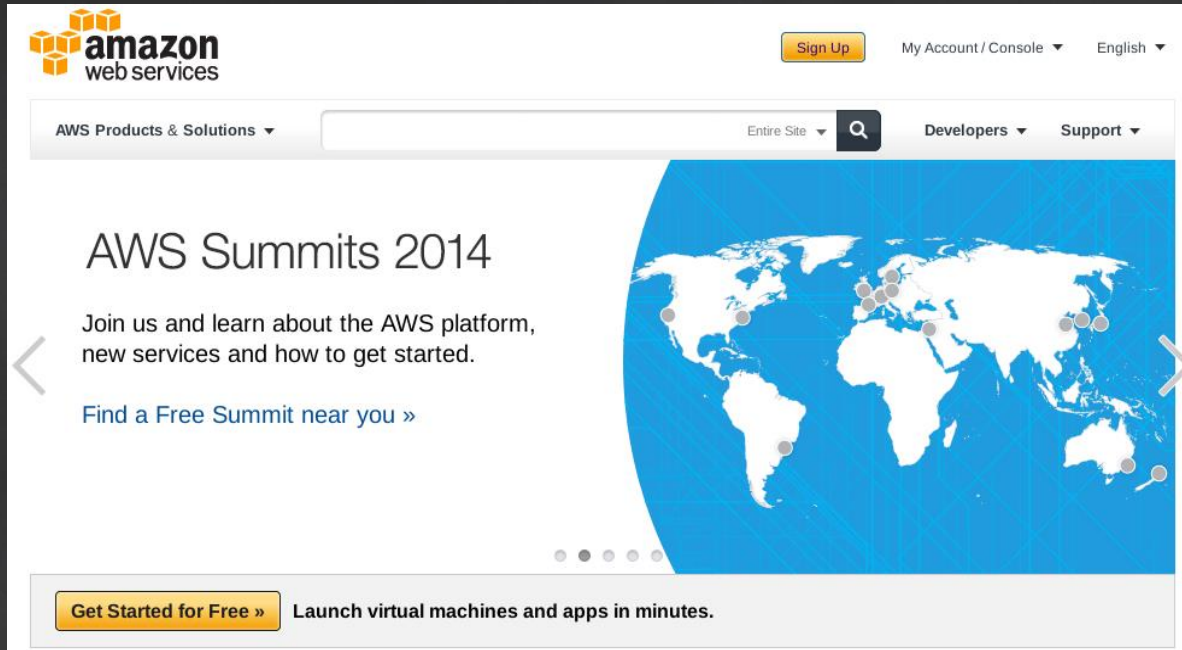


- Amazon Linux engineering jobs

<http://amzn.to/1hCsib9>



Try Amazon Linux for free!



The screenshot shows the AWS website homepage. At the top left is the Amazon Web Services logo. To the right are links for 'Sign Up', 'My Account / Console', and 'English'. Below the logo is a navigation bar with 'AWS Products & Solutions', a search bar, 'Entire Site', and 'Developers / Support'. The main content area features a large blue banner for 'AWS Summits 2014' with a world map background. The banner text reads: 'Join us and learn about the AWS platform, new services and how to get started.' and 'Find a Free Summit near you'. At the bottom of the banner is a yellow button that says 'Get Started for Free' and the text 'Launch virtual machines and apps in minutes.'

Please go to <https://aws.amazon.com>



Questions?

Thanks for listening!