General

Q: What is Amazon Elastic Container Registry (ECR)?
Amazon Elastic Container Registry (ECR) is a fully-managed Docker container registry that makes it easy for developers to store, manage, and deploy Docker container images. Amazon ECR is integrated with Amazon Elastic Container Service (ECS), simplifying your development to production workflow. Amazon ECR eliminates the need to operate your own container repositories or worry about scaling the underlying infrastructure. Amazon ECR hosts your images in a highly available and scalable architecture, allowing you to reliably deploy containers for your applications. Integration with AWS Identity and Access Management (IAM) provides resource-level control of each repository.

Q: Why should I use Amazon ECR?
Amazon ECR eliminates the need to operate and scale the infrastructure required to power your container registry. Amazon ECR uses Amazon S3 for storage to make your container images highly available and accessible, allowing you to reliably deploy new containers for your applications. Amazon ECR transfers your container images over HTTPS and automatically encrypts your images at rest. You can configure policies to manage permissions for each repository and restrict access to IAM users, roles, or other AWS accounts. Amazon ECR integrates with Amazon ECS and the Docker CLI, allowing you to simplify your development and production workflows. You can easily push your container images to Amazon ECR using the Docker CLI from your development machine, and Amazon ECS can pull them directly for production deployments.

Amazon ECR currently supports private images. However, using IAM resource-based permissions, you can configure policies for each repository to allow access to IAM users, roles, or other AWS accounts.

Q: What compliance capabilities can I enable on Amazon ECR?
You can use AWS CloudTrail on Amazon ECR to provide a history of all API actions such as who pulled an image and when tags were moved between images. Administrators can also find which EC2 instances pulled which images.

Using Amazon ECR

Q: How do I get started using Amazon ECR?
The best way to get started with Amazon ECR is to use the Docker CLI to push and pull and your first image. Visit our Getting Started page for more information.

Q: Can I access Amazon ECR inside a VPC?
To use Amazon ECR within a VPC, your instances must be able to communicate with the Internet. You can do this with Amazon VPC NAT Gateway.

Q: What's the best way to manage my repositories and images?
Amazon ECR provides a command line interface and APIs to create, monitor, and delete repositories and set repository permissions. You can perform the same actions in the Amazon ECR Management Console, which can be accessed via the "Repositories" section of the Amazon ECS Console. Amazon ECR also integrates with the Docker CLI allowing you to push, pull, and tag images on your development machine.

of Amazon Linux AMI packages. Similar to the Amazon Linux AMI in EC2, Amazon Linux container images will get ongoing updates from Amazon in the form of security updates, rolling releases, and package updates.

Q: Does Amazon ECR work with Amazon ECS?
Yes. Amazon ECR is integrated with Amazon ECS allowing you to easily store, run, and manage container images for applications running on Amazon ECS. All you need to do is specify the Amazon ECR repository in your Task Definition and Amazon ECS will retrieve the appropriate images for your applications.

Q: Does Amazon ECR work with AWS Elastic Beanstalk?
Yes. AWS Elastic Beanstalk supports Amazon ECR for both single and multi-container Docker environments allowing you to easily deploy container images stored in Amazon ECR with AWS Elastic Beanstalk. All you need to do is specify the Amazon ECR repository in your Dockerrun.aws.json configuration and attach the AmazonEC2ContainerRegistryReadOnly policy to your container instance role.

Q: What version of Docker Engine does Amazon ECR support?
Amazon ECR currently supports Docker Engine 1.7.0 and up.

Q: What version of the Docker Registry API does Amazon ECR support?
Amazon ECR supports the Docker Registry V2 API specification.

Q: Will Amazon ECR automatically build images from a Dockerfile?
No. However, Amazon ECR integrates with a number of popular CI/CD solutions to provide this capability. See the Amazon ECR Partners Page for more information.

Schema 2 images and OCI images on pull.

Security

Q: How does Amazon ECR help ensure that container images are secure?
Amazon ECR automatically encrypts images at rest using S3 server side encryption and transfers your container images over HTTPS. You can configure policies to manage permissions and control access to your images using AWS Identity and Access Management (IAM) users and roles without having to manage credentials directly on your EC2 instances.

Q: How can I use AWS Identity and Access Management for permissions?
You can use IAM resource-based policies to control and monitor who and what (e.g., EC2 instances) can access your container images as well as how, when, and where they can access them. To get started, use the Management Console to create resource-based policies for your repositories. Alternatively, you can use sample policies and attach them to your repositories via the Amazon ECR CLI.

Q: Can I share my images across AWS accounts?
Yes. Here is an example of how to create and set a policy for cross-account image sharing.

Learn more about Amazon ECR pricing

Visit the pricing page

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