



Architecture Diagrams

Amazon EKS on AWS Outposts Rack



Amazon EKS on AWS Outposts Rack: Architecture Diagrams

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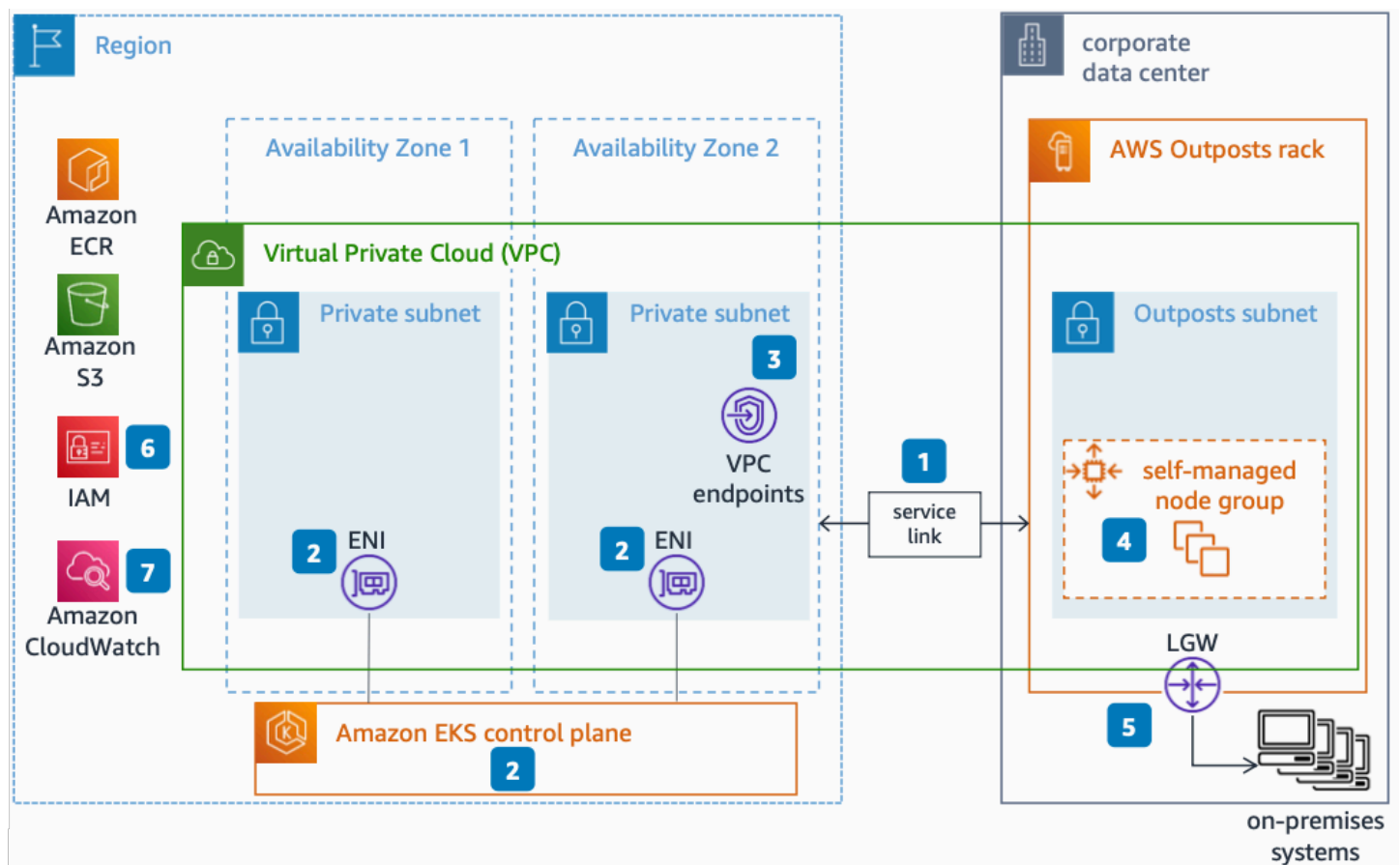
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Amazon Elastic Kubernetes Service on AWS Outposts Rack

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This reference architecture diagram shows how to deploy [Amazon Elastic Kubernetes Service](#) (Amazon EKS) on an [AWS Outposts](#) rack.

Amazon Elastic Kubernetes Service on AWS Outposts Rack



1. Ensure a reliable network connection between your AWS Outpost and its parent Region. Highly available, low-latency connectivity, such as <https://docs.aws.amazon.com/directconnect/latest/UserGuide/Welcome.html>.
2. Create a private Amazon EKS cluster control plane, selecting subnets in the Region where Amazon EKS managed elastic network interfaces (ENIs) will be placed.

3. For private subnets without a path to the internet, create VPC endpoints for [Amazon Elastic Compute Cloud](#) (Amazon EC2), [Amazon Simple Storage Service](#) (Amazon S3), and Amazon Elastic Container Registry (Amazon ECR). Depending on which other AWS services you plan to use, additional endpoints might be needed.
4. Create self-managed Amazon EKS nodes on AWS Outposts, following the prerequisites.
5. Expose Amazon EKS nodes to your local network through a local gateway (LGW). See [how Local gateways work](#).
6. Use [AWS Identity and Access Management](#) (IAM) to manage user and role access to your cluster.
7. AWS Outposts supports Amazon CloudWatch metrics. For a list of supported metrics, see [CloudWatch metrics for AWS Outposts](#).

Further reading

For additional information, refer to

- [AWS Architecture Icons](#)
- [AWS Architecture Center](#)
- [AWS Well-Architected](#)
- [AWS Outposts product page](#)

Diagram history

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Change	Description	Date
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