aws

Local Clusters for Amazon EKS on AWS Outposts

Local Clusters for Amazon EKS on AWS Outposts: Architecture Diagrams

Table of Contents

Local Clusters for Amazon EKS on AWS Outposts

Publication date: **June 02, 2023 ([Diagram history](#))**

This reference architecture diagram helps you deploy a local cluster for Amazon Elastic Kubernetes Service (Amazon EKS) on AWS Outposts.
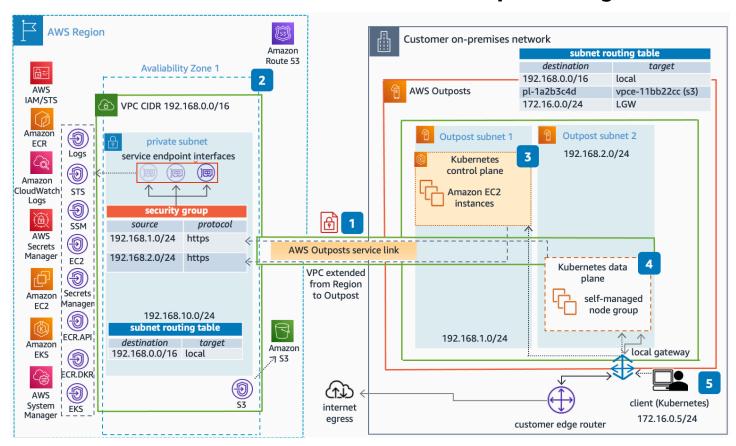
Local Clusters for Amazon EKS on AWS Outposts Diagram

1. Ensure that you have a reliable network connection between AWS Outposts and its parent Region. Use a highly available, low-latency connectivity, such as AWS Direct Connect.

2. Create the Amazon Elastic Kubernetes Service (Amazon EKS) [local cluster VPC and its required constructs](#).

3. Create a [local Amazon EKS cluster](#), specifying the Kubernetes control plane subnet on AWS Outposts.

4. Create [self-managed](#) Amazon EKS nodes on AWS Outposts, following the recommended [prerequisites](#).

5. Allow administrative access from the on-premises network to the Amazon EKS cluster endpoint using the local gateway (LGW). For more information, refer to Local gateway basics.

6. Refer to the local cluster for Amazon EKS on AWS Outposts considerations.

> ⓘ **Note**
>
> Deploying a local cluster for Amazon EKS is currently only available through the AWS Outposts Rack offering.

Download editable diagram

To customize this reference architecture diagram based on your business needs, download the ZIP file which contains an editable PowerPoint.

Create a free AWS account

<div align="right">

`Sign up now`

</div>

Sign up for an AWS account. New accounts include 12 months of AWS Free Tier access, including the use of Amazon EC2, Amazon S3, and Amazon DynamoDB.

Further reading

For additional information, refer to

- AWS Architecture Icons
- AWS Architecture Center
- AWS Well-Architected

Diagram history

To be notified about updates to this reference architecture diagram, subscribe to the RSS feed.

Change	Description	Date

Initial publication   Reference architecture   June 2, 2023
                                 diagram first published.

> ⓘ **Note**
>
> To subscribe to RSS updates, you must have an RSS plugin enabled for the browser you are using.