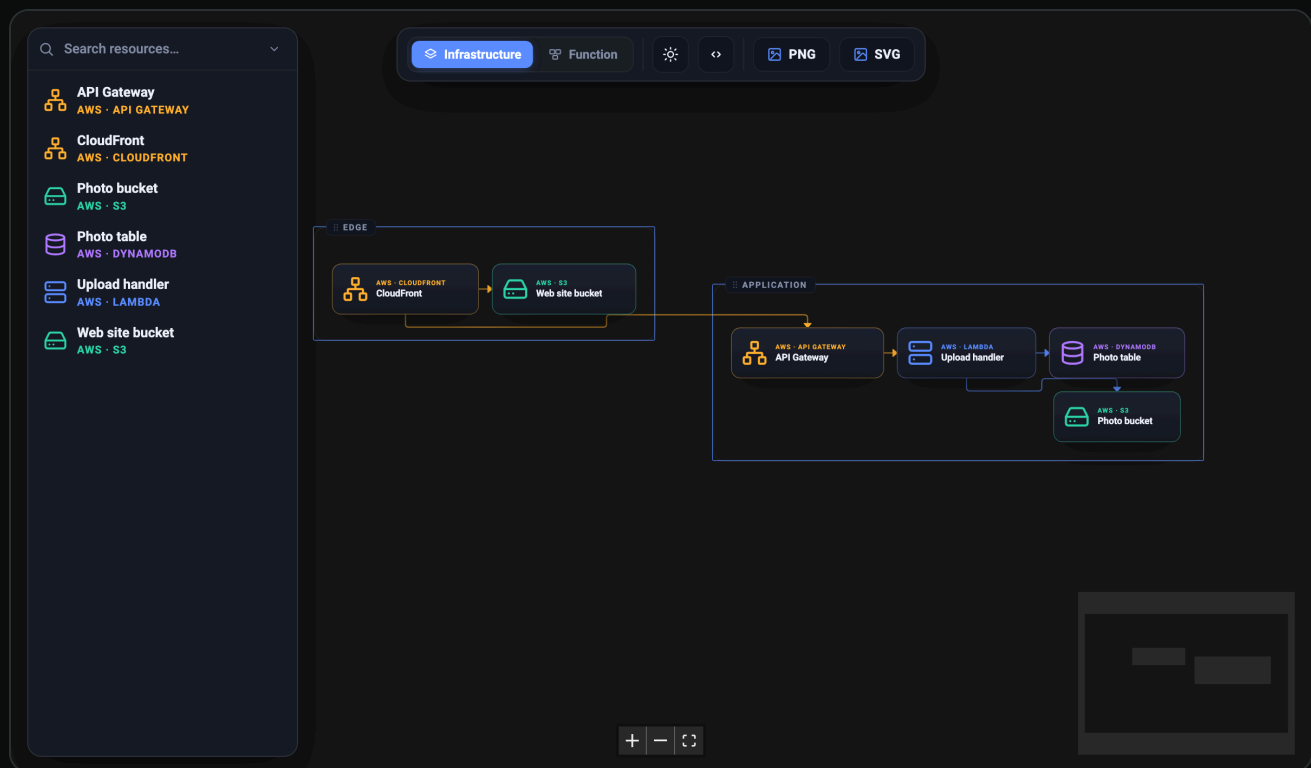


Deezle Infra Diagrams

Describe a system to Claude. Get a diagram you can drag, search and export.



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What it is and what you need

Deezle Infra Diagrams is a plugin for Claude. You describe a system in plain words. Claude writes the diagram, and the plugin draws it as a picture you can work with.

Behind the scenes, Claude writes the diagram in **Mermaid**, a short text format for diagrams. The plugin turns that text into an interactive diagram. You never have to learn Mermaid, but you can read or copy it any time.

What you get

- **Four kinds of diagram:** cloud architecture, data models, flowcharts and state machines.
- **About 1,500 icon names** for Amazon Web Services (AWS), Microsoft Azure and Google Cloud services, plus common tools.
- **A diagram you can use:** drag boxes and line ends, pan and zoom, search, switch dark and light, and export a picture.
- **A saved page:** one `.html` file that opens in any browser, even offline.

What you need

ITEM	DETAILS
Claude app	Claude Code, or a Cowork session that runs on your computer.
Node.js 22+	The free program that runs the plugin. Check with <code>node --version</code> . Get it at nodejs.org .
An account?	None. The plugin needs no sign-in and no internet connection.

Install it

Install takes two commands. Nothing else downloads: the whole renderer ships as one file inside the plugin.

From the plugin directory

Open the Claude plugin directory, search for **deezle-infra-diagrams**, and choose Install.

From Claude Code

Type these two commands into Claude Code, one at a time:

```
/plugin marketplace add DeezleSince74/deezle-infra-diagrams  
/plugin install deezle-infra-diagrams@deezle-infra-diagrams
```

Check that it works

Ask Claude: *"Draw a diagram of a web app with a database."* A diagram should appear. If it doesn't, see chapter 09.

WHERE THE DIAGRAM SHOWS UP

Some Claude apps show the diagram right in the chat. Others, like the Claude Code terminal, can't yet. There, ask Claude to **save the diagram** and open the `.html` file in your browser.

Your first diagram

Just say what you want. Name the parts and how they connect. Claude handles the rest.

Prompts to try

1. *"Draw the architecture of a web app on AWS: CloudFront in front of an S3 site, API Gateway calling Lambda, and DynamoDB for storage."*
2. *"Make an ER diagram for a library: members, books, copies and loans, with keys."*
3. *"Flowchart our refund process: request, check the order date, approve or send to a manager, then pay out."*
4. *"Draw the states of a support ticket from open to closed, including reopen."*

Tips for better diagrams

- **Name real services.** "Azure Functions" gets the right icon. "a serverless thing" gets a plain box.
- **Ask for groups.** "Put the web tier and data tier in separate groups" keeps big diagrams tidy.
- **Say the direction.** "The API writes to the queue" gives a clearer arrow than "they're connected."
- **Change it by asking.** "Add a cache between the API and the database" redraws the diagram with the change.
- **Split big systems.** Past about 25 boxes, two diagrams read better than one.

Get help inside Claude

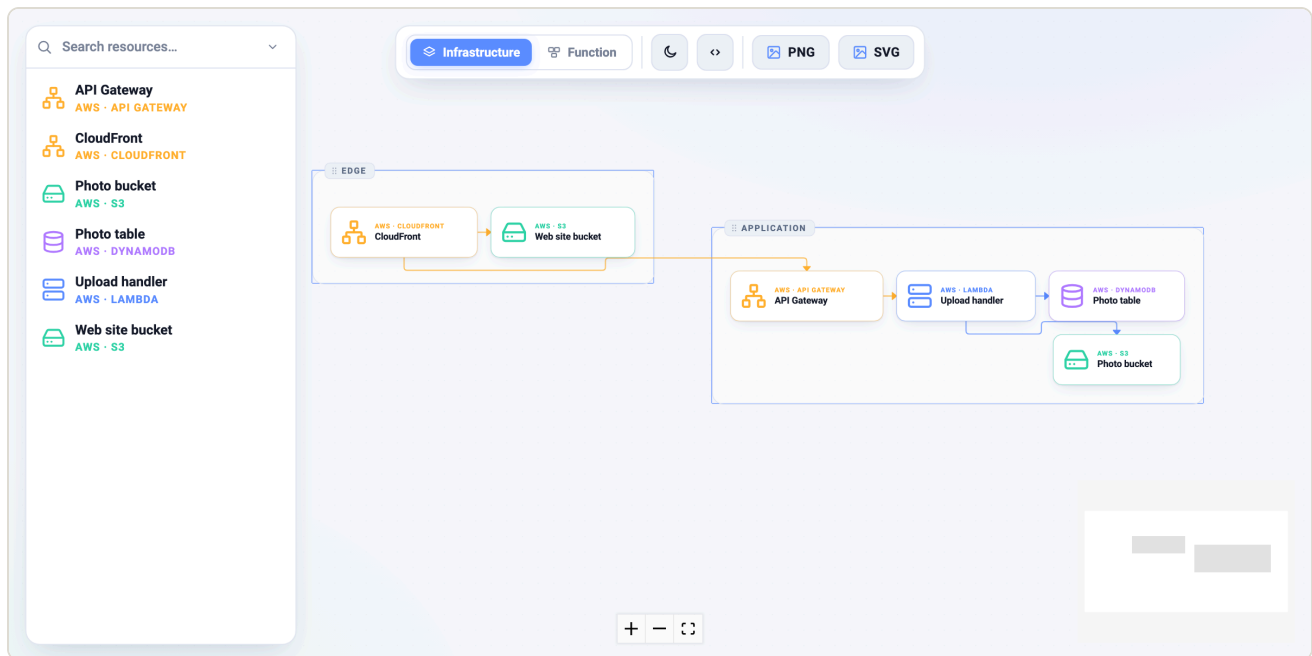
Type `/ask-deezle-infra-diagrams` followed by a question, such as "which icon do I use for Cloud Run?"

The four kinds of diagram

Claude picks the right kind from what you ask for. You can also name it: "as a flowchart," "as an ER diagram."

Cloud architecture

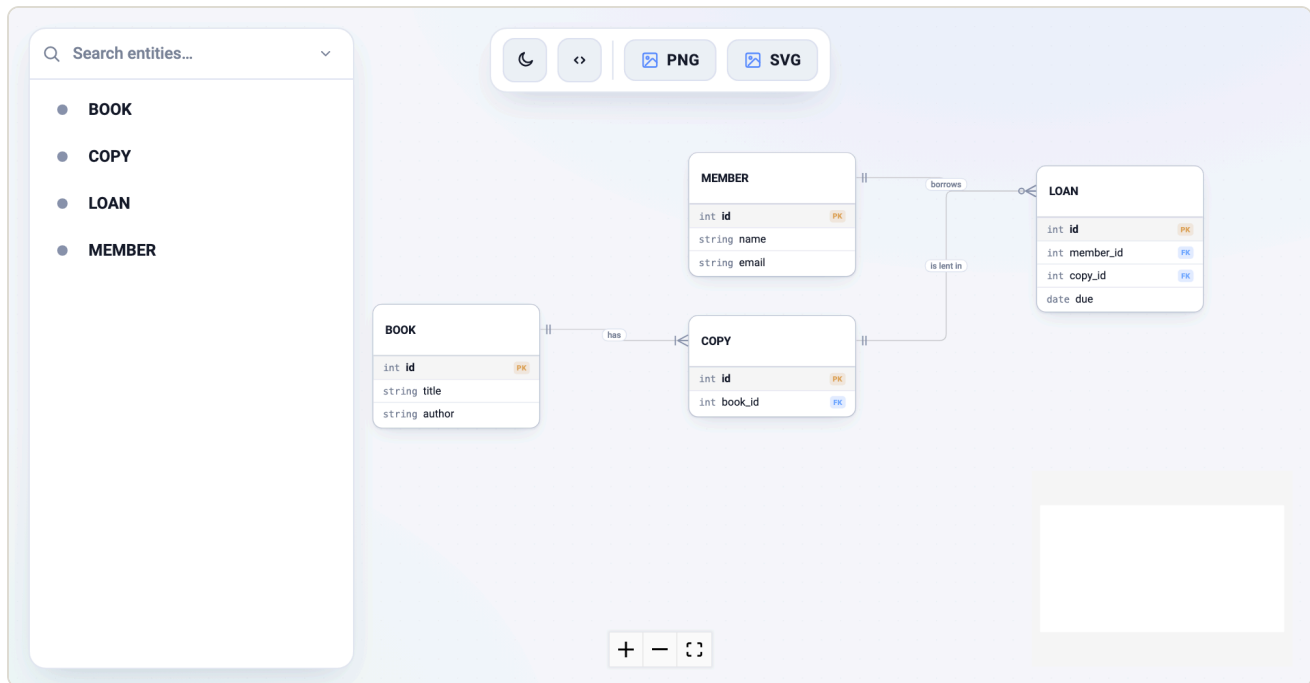
Shows services and how they connect, inside groups such as a network or a resource group. Each box shows its icon, its provider and service type, and its name.



A PHOTO-SHARING APP ON AWS • LIGHT THEME

Data model (entity-relationship, or ER, diagram)

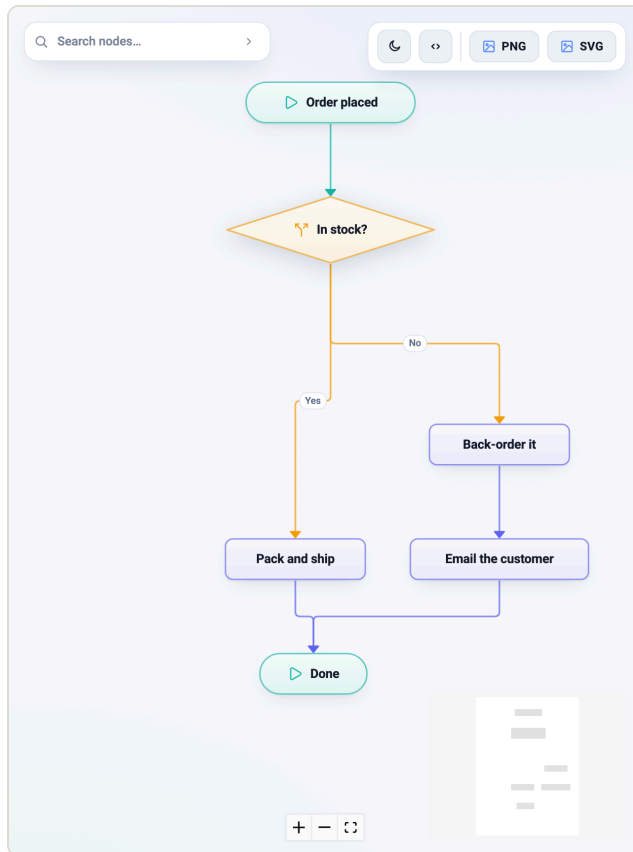
Shows tables, their columns, and how they relate. Keys are tagged **PK** (primary key, the row's unique ID) and **FK** (foreign key, a link to another table). Line ends use crow's-foot marks to show "one" or "many."



A LIBRARY DATA MODEL

Flowchart

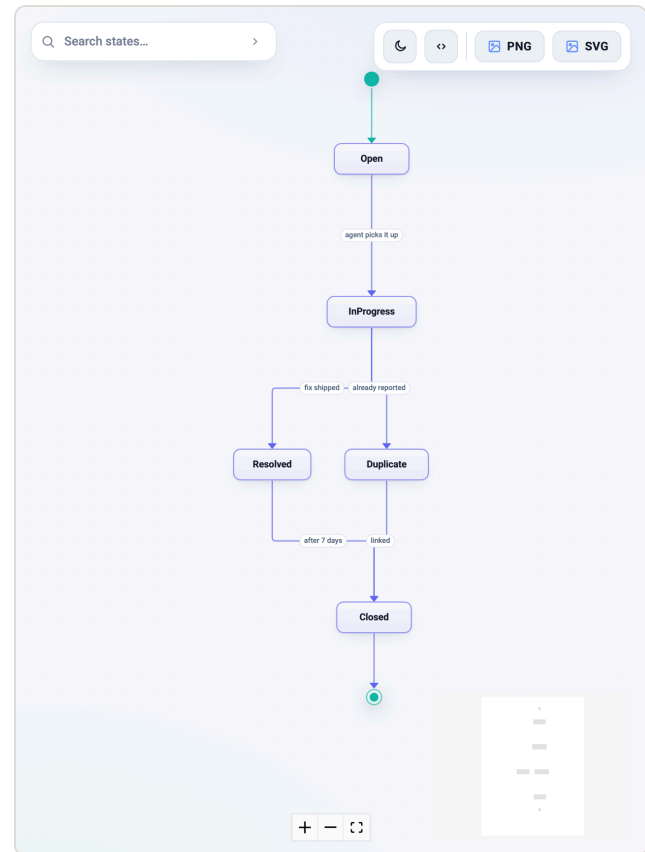
Shows steps and decisions. Rounded boxes start and end the flow. Diamonds ask a yes-or-no question, and each answer gets its own labeled arrow.



HANDLING AN ORDER

State machine

Shows the states something can be in, and what moves it from one to the next. The filled dot is the start. The ringed dot is the end.



A SUPPORT TICKET'S LIFE

Working with a diagram

Every diagram is live. Move things until it reads the way you think about the system.

TO DO THIS	DO THIS
Move a box	Drag it. Drag a group by its title tab to move everything inside it.
Resize a group	Drag a group's edge or corner.
Move a line's end	Drag either end of a line. Dots appear on every box. Drop the end on a dot: another side of the same box, or a different box.
Undo moved lines	Right-click a moved line and choose Reset line ends . Right-click the background and choose Reset all line ends to undo them all.
Follow a flow	Point at a box or a line. Its connections light up and the rest fades.
Pan and zoom	Drag the background to pan. Scroll or pinch to zoom. The buttons at the bottom zoom in, zoom out and fit the whole diagram.
Find a box	Type in the search panel at the top left. Click a result to zoom to it.
Select many boxes	Right-click the background and choose Select all nodes , then drag them together.
Switch the theme	Click the moon or sun button.
Regroup by job	On architecture diagrams, click Function . Boxes regroup by what they do: compute, database, storage and so on. Click Infrastructure to go back.
Change ER line ends	Right-click a relationship line to switch between crow's-foot marks and plain arrows, for one line or all of them.
See the source	Click the  button to view and copy the Mermaid text.

YOUR CHANGES ARE KEPT WHILE YOU WORK

Moved line ends and arrow styles stay put when you switch theme or grouping. Each grouping keeps its own moves. Reloading the page starts fresh from the original layout.

Saving and sharing

Export a picture

Click **PNG** for an image you can paste into slides, docs or chat. Click **SVG** for a sharp image that scales to any size. The export matches what you see, including your moves and theme.

Save the whole diagram

Ask Claude to save it: *"Save this diagram to ./diagrams/"*. You get one `.html` file with everything inside it. Open it in any browser, even offline, and it works just like the diagram in Claude. Send the file to a teammate and they can drag and export too, with no install.

- With no folder named, the file goes to your **Downloads** folder.
- The file name always ends in `.html`.
- The plugin won't replace a file it didn't make. Pick a new name if it says so.

Render a file you already have

Have a Mermaid file? Type `/diagram` and the path:

```
/diagram ./docs/system.mmd
```

Diagrams from your cloud code

Infrastructure as Code (IaC) means describing cloud resources in files. The plugin can read those files and draw what they build.

YOU HAVE	MAKE THE FILE WITH	THEN TYPE
Terraform files	Nothing; point at the folder	<code>/diagram ./infra</code>
Terraform state	<code>terraform show -json > tf.json</code>	<code>/diagram tf.json</code>
Pulumi	<code>pulumi stack export > stack.json</code>	<code>/diagram stack.json</code>
Bicep	<code>az bicep build --file main.bicep</code>	<code>/diagram main.json</code>
CloudFormation or CDK	Nothing, or <code>cdk synth > template.yaml</code>	<code>/diagram template.yaml</code>

Resources the plugin doesn't recognize still appear, as labeled boxes. A folder of Terraform files also shows third-party providers that a state file can miss.

Diagram what's running in your cloud

Already use your cloud's command-line tool? Export what's deployed to a file, then diagram the file.

CLOUD	EXPORT WITH	THEN TYPE
Azure	<code>az group export --name my-rg > rg.json</code>	<code>/diagram rg.json</code>
Google Cloud	<code>gcloud beta resource-config bulk-export --project=my-project - -resource-format=terraform --path=gcp-export</code>	<code>/diagram gcp-export</code>
AWS	<code>aws cloudformation get-generated-template --generated- template-name my-scan --format JSON --query TemplateBody -- output text > aws.json</code>	<code>/diagram aws.json</code>

Azure exports one resource group at a time. The Google Cloud export is a preview feature that needs the Config Connector component and the Cloud Asset API. On AWS, first scan your resources and make a template with the CloudFormation IaC generator.

YOU RUN THE CLOUD COMMANDS

These commands use your own cloud sign-in. Claude may suggest them, but the plugin never runs them for you, and it never contacts your cloud. It only reads the file the command writes.

Privacy and safety

The plugin does one job on your computer and nothing else.

- **It runs on your computer, offline.** It makes no network requests and sends no usage data, ever.
- **It collects nothing.** Your diagram text becomes a picture in the same conversation. Nothing is kept after.
- **It writes only when you ask.** It saves a file only when you ask for one. The file always ends in `.html`, and it never replaces a file it didn't write.
- **It reads only what you name.** `/diagram` and `/import-icons` read the one file or folder you give them.
- **Imported icons stay with you.** Official icons you import are saved in `~/.deezle-infra-diagrams/icons`, cleaned of any code first. `/import-icons remove` deletes them.
- **It needs no sign-in.** It asks for no accounts and reads no settings from your system.

Found a security problem? Please report it privately on the plugin's GitHub page: open the **Security** tab and choose **Report a vulnerability**. Expect a first reply within 7 days.

Troubleshooting

PROBLEM	FIX
No diagram in the chat	Your app may not show interactive results yet. Ask Claude to save the diagram, then open the file in a browser.
"Refusing to overwrite"	A file with that name exists and the plugin didn't make it. Choose another name or folder.
The plugin won't start	Run <code>node --version</code> . You need 22 or newer.
A plain or wrong icon	The icon name wasn't recognized. Ask Claude to check the name against the icon list.
Imported icons don't show	Run <code>/import-icons status</code> . If a vendor is missing, import its unzipped folder again. If the folder names don't say AWS, Azure or Google, tell Claude which vendor it is.
A crowded layout	Ask for groups around related services, or split the diagram in two.
A line won't move	Grab the very end of the line, right where it meets the box. Drop it on one of the dots.
My moves are gone	Moves last while the page is open. Export a PNG or SVG to keep a picture of your arrangement.

Icons, licenses and help

Icons

Icons come from three open sets: **Simple Icons** (CC0, free for any use), the Iconify **logos** set (CC0) and **Lucide** (ISC license). AWS, Azure and Google Cloud services are drawn with these open icons, not the vendors' official icon packs. Brand names and logos belong to their owners and are used only to name the services.

Use the official cloud icons

You can draw AWS, Azure and Google Cloud services with their official icons. Download them from the vendor yourself, so the icons, and the vendor's terms for them, stay between you and the vendor.

1. Download a set: **AWS** at `aws.amazon.com/architecture/icons`, **Azure** at `learn.microsoft.com/azure/architecture/icons`, or **Google Cloud** at `cloud.google.com/icons`.
2. Unzip it.
3. In Claude, type `/import-icons` followed by the unzipped folder, for example `/import-icons ~/Downloads/Azure_Public_Service_Icons`.

New diagrams then use those icons wherever a service matches. Other services keep the open icons.

Import more vendors the same way. `/import-icons status` shows what you have, and `/import-icons remove` goes back to the open icons.

License

The plugin's code is free to use under the MIT License. The full text ships with the plugin in `LICENSE`, and the icon credits are in `ATTRIBUTION.md`.

Get help

- **Questions and bugs:** open an issue at github.com/DeezleSince74/deezle-infra-diagrams/issues
- **What changed:** see `CHANGELOG.md` in the plugin.
- **The company:** madewithdeezle.com

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