

# ■ OpenLens Installation and Kubeconfig Setup Notes

**Purpose:** To install OpenLens (the open-source Lens IDE) and connect it to a Kubernetes cluster using the kubeconfig file.

## 1. System Requirements

- OS: Windows / macOS / Linux
- Minimum RAM: 4 GB
- Internet connection
- Existing kubeconfig file

## 2. Download and Install OpenLens

### Option 1: Using Prebuilt Installer

1. Visit: <https://github.com/MuhammedKalkan/OpenLens/releases>
2. Download package for your OS
3. Run installer and complete setup.

### Option 2: Using Command Line (Linux)

```
wget https://github.com/MuhammedKalkan/OpenLens/releases/latest/download/  
OpenLens.deb  
sudo dpkg -i OpenLens.deb  
sudo apt-get -f install -y
```

## 3. Obtain kubeconfig File

### If using AWS EKS:

1. Configure AWS CLI:  
`aws configure`
2. Get kubeconfig:  
`aws eks update-kubeconfig --region <region> --name <cluster>`
3. Verify:  
`kubectl get nodes`
4. File location: `~/.kube/config`

## 4. Add kubeconfig in OpenLens

1. Open OpenLens
  2. Click '+ Add Cluster'
  3. Choose 'Browse Kubeconfig'
  4. Select `~/.kube/config`
  5. Click 'Add Cluster' → 'Connect'
- Cluster appears in sidebar

## 5. Optional Configurations

- Switch Contexts
- Namespace Filtering
- View Pods, ConfigMaps, Secrets, and Logs

## 6. Troubleshooting Notes

Issue	Possible Fix
Cluster not connecting	Verify kubeconfig path
Cannot connect	Run 'kubectl get nodes'
Wrong cluster info	Delete and re-add kubeconfig
Permissions denied	Check IAM role or kubeconfig user

## 7. Verification

- Dashboard shows cluster info
- Nodes and namespaces visible
- Pod logs available under Workloads → Pods

## 8. Summary

Step	Description
1	Download OpenLens
2	Install on your OS
3	Get kubeconfig file
4	Add cluster in OpenLens
5	Connect and monitor