

# Deploying Packages on Gno.land

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The complete guide to deploying Gno packages



# Package Types



## Pure Packages ( /p/namespace/ ... )

- No persistent storage

```
package demo

func Add(a, b int) int {
    return a + b
}
```



## Realm Packages ( /r/namespace/ ... )

- Persistent storage

```
package demo

var counter int

func Increment() {
    counter++
}
```



# Deployment Commands

## Package Deployment

```
gnokey maketx addpkg \  
  --pkgpath "gno.land/r/demo/counter" \  
  --pkgdir "./counter" \  
  --deposit "1gnot" \  
  --gas-fee "1gnot" \  
  --gas-wanted 200 \  
  --broadcast \  
  --chainid "staging" \  
  --remote "https://rpc.gno.land:443" \  
MyKey
```



# Namespace Rules

## Path Structure

```
gno.land/[p|r]/[owner]/[package]
```

## Ownership Rules:

1. **Registered users:** `gno.land/p/david/math`
2. **Anonymous users:** `gno.land/p/g1abc ... xyz/math`
3. **Gno owned packages:** `gno.land/r/sys/vals`

## Deployment Rights:

- Only namespace owner can deploy
- Requires correct signing key