# layout_block (migration step)

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## layout_block

Creates, updates, ensures or deletes a block in a zone of a layout of Exponential Layouts, with its parameters.

A step of a YAML migration with `type: layout_block`. The class `expMigrationStepLayoutBlock` (`kernel/classes/migration/steps/expmigrationsteplayoutblock.php`) is registered in `settings/migration.ini` `[StepSettings] StepTypeList[layout_block]`.

### Modes

`mode:` is one of `create`, `update`, `ensure`, `delete`; every step names one.

### Keys

| Key | Type | Modes | Default | What it is |
|---|---|---|---|---|
| `layout` | `string` | all | required | the identifier of the layout |
| `zone` | `string` | all | required | the identifier of the zone |
| `name` | `string` | all | required | the name of the block, by which the step finds it in the zone |
| `definition` | `string` | create, update, ensure | | the block definition (explayouts.ini [BlockDefinition_<identifier>]): title, text, list ... |
| `view_type` | `string` | create, update, ensure | | how the block renders (a new block: default) |
| `item_view_type` | `string` | create, update, ensure | | how the block renders its items |
| `position` | `int` | create, update, ensure | | the place in the zone, from 0 (a new block: after the last) |
| `parameters` | `map` | create, update, ensure | | parameter => value; the others are kept |
| `publish` | `bool` | create, update, ensure, delete | `true` | true: the layout's draft is published; false: the change stays in the draft |

| Key | Type | Modes | Default | What it is |
|---|---|---|---|---|
| `missing` | `string: fail, skip` | all | `"fail"` | what happens when the layout, the zone, the block or Exponential Layouts is not there: fail (the default) or skip |

Besides these, every step takes the keys of the engine: `type`, `mode`, `if`, `references`, `environments`, `engines` and `comment` (the file format). A key of type `identifier` names a node, an object or another part of the installation by id, remote id, path or name (identifiers).

## Values for references

`references: { <name>: <value> }` keeps a value of the step's result as `${ref.<name>}` for the steps and migrations after it:

| Value | What it is |
|---|---|
| `block_id` | the id of the block (in the published layout, or in the draft with publish: false) |
| `layout_id` | the id of the layout it is in |
| `created` | true when the step created the block |
| `changed` | true when the step changed something |

## Undoing

Some steps of this type undo themselves when their migration is rolled back without `down:` (the class says which); a migration with any other step of it needs `down:` or a rollback to its caption.

Caches it touches (cleared after the run): `content`, `template-block`.

## Example

YAML

```yaml
- type: layout_block
  mode: ensure
  layout: landing_page
  zone: main
  name: Welcome
  definition: title
  view_type: title
  parameters: { title: Welcome, tag: h1 }
```

## Related

- All step types
- YAML migration steps

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