

Mastering Managed Application offers

# Working with createUiDefinition.json

A Mastering the Marketplace video

<https://aka.ms/MasteringTheMarketplace>

# Overview

Create UI Definition overview

createUiDefinition.json  
walkthrough

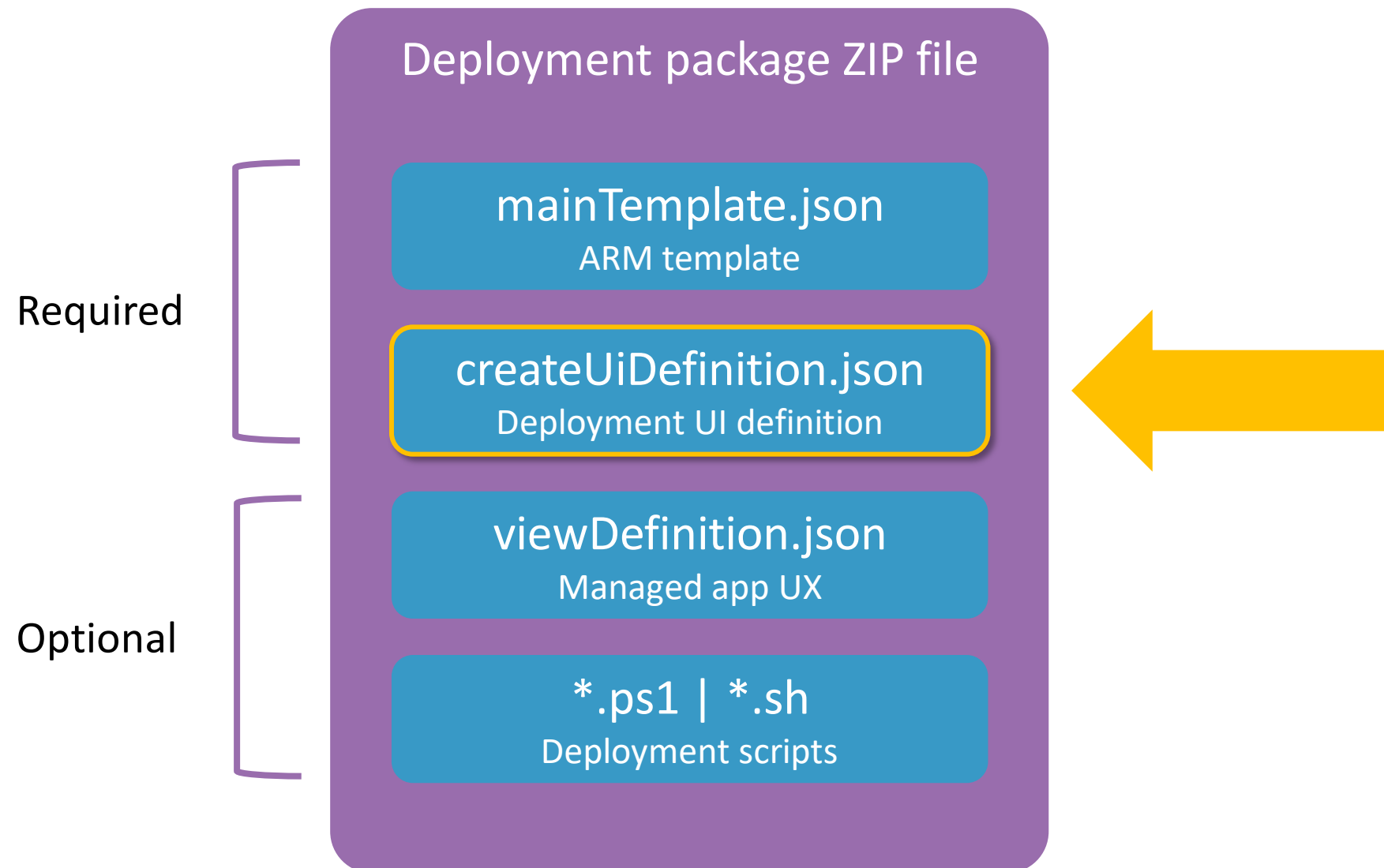
The development sandbox

Dynamic elements



# Create UI Definition overview

# Part of the deployment package



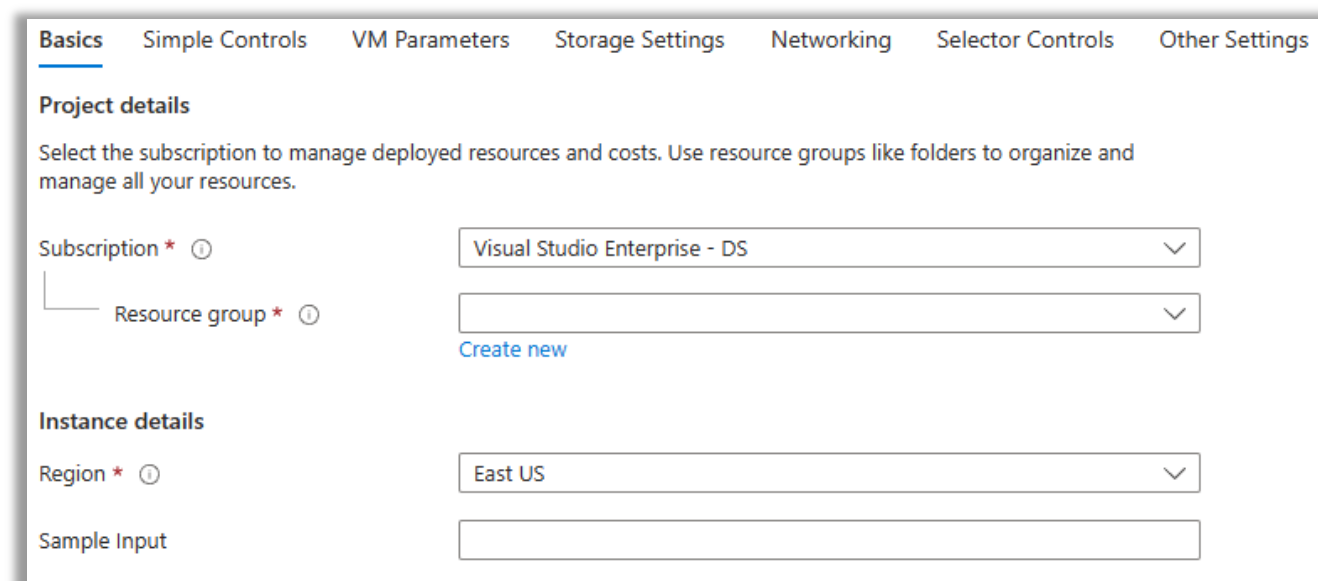
# The deployment UX

Create steps (tabs) for different input areas

Steps contain elements

Elements may be thought of as controls

Docs for elements are here:  
<https://aka.ms/maelements>



The screenshot displays a deployment configuration interface with the following elements:

- Tabs:** Basics (selected), Simple Controls, VM Parameters, Storage Settings, Networking, Selector Controls, Other Settings.
- Section Header:** Project details
- Description:** Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
- Form Fields:**
  - Subscription \* ⓘ: Visual Studio Enterprise - DS (dropdown)
  - Resource group \* ⓘ: (empty dropdown) with a [Create new](#) link below it.
  - Instance details
  - Region \* ⓘ: East US (dropdown)
  - Sample Input: (empty text input)

# createUiDefinition.json

Basics step

Element

Basics Simple Controls VM Parameters Storage Settings Tags Review + create

## Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* ⓘ

Visual Studio Enterprise - DS



Resource group \* ⓘ

[Create new](#)

## Instance details

Region \* ⓘ

East US

Sample Input

```
"basics": [  
  {  
    "name": "clusterName",  
    "type": "Microsoft.Common.TextBox",  
    "label": "Sample Input",  
    "defaultValue": "",  
    "constraints": {  
      "required": false  
    }  
  }  
]
```

# createUiDefinition.json

Basics step

## Step 1 – Simple controls

Element

Element

Element

Element

Element

Element

Basics Simple Controls VM Parameters Storage Settings Tags Review + create

**i** Welcome to the Azure Ice Cream Shop

Ice Cream Flavors \*

Chocolate

Cone Option \*

- Waffle Cone
- Sugar Cone
- Pretzel Cone
- None (cup)

### Monthly Newsletter

Join our Flavor of the Month club and never miss a single delicious announcement! No spam (no kidding). Must be at least 18 years old to register.

[Learn more](#)

Email ⓘ

I agree to the terms and conditions. \*

```
"steps": [  
  {  
    "name": "simpleControls",  
    "label": "Simple Controls",  
    "elements": [ {}, {}, {}, {}, {}, {} ]  
  },  
  {}, {}  
  ...  
]
```

# createUiDefinition.json

Basics step

Step 1 – Simple controls

Step 2 – VM Parameters

Element

Element

Element

Basics Simple Controls VM Parameters Storage Settings Tags Review + create

Customize your VM

Size \*

**2x Standard D1**

1 vcpu, 3.5 GB memory

[Change size](#)

Admin Username \*

Password \*

Confirm password \*

```
{
  "name": "adminUsername",
  "type": "Microsoft.Compute.UserNameTextBox",
  "label": "Admin Username",
  "defaultValue": "",
  "toolTip": "Username for the admin account",
  "constraints": {
    "required": true,
    "regex": "^[a-z0-9A-Z]{1,30}$",
    "validationMessage": "Only alphanumeric characters."
  },
  "osPlatform": "Windows",
  "visible": true
}
```



# createUiDefinition.json

Basics step

Step 1 – Simple Controls

Step 2 – VM Parameters

Step 3 – Storage Settings

Step 4 – Tags

Basics Simple Controls VM Parameters Storage Settings Tags Review + create

## Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* ⓘ

Visual Studio Enterprise - DS



Resource group \* ⓘ

[Create new](#)

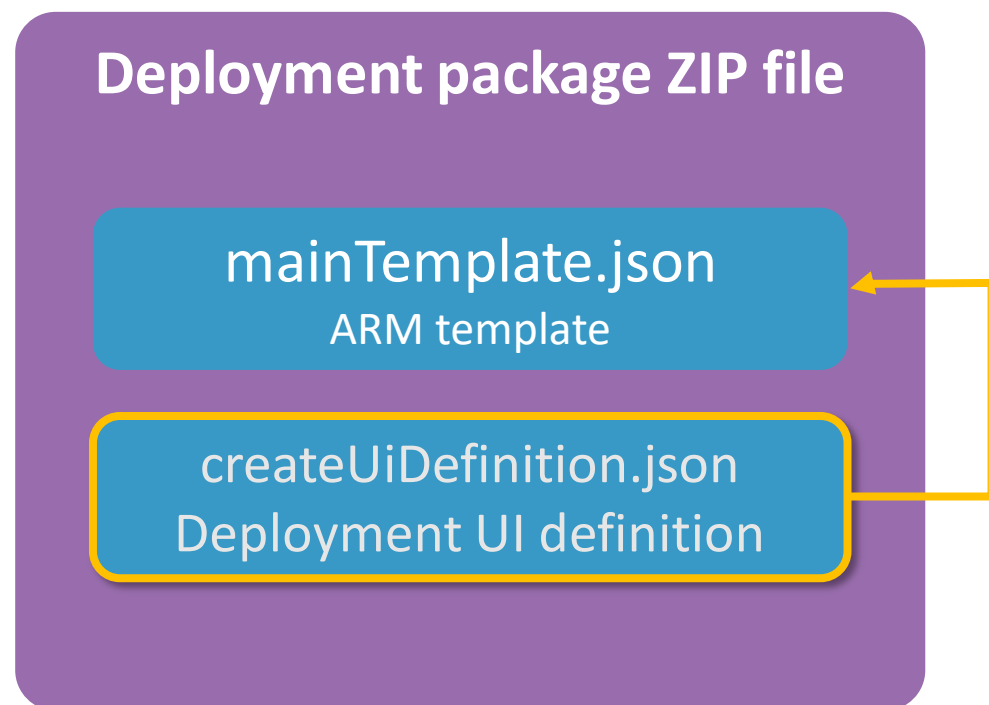
## Instance details

Region \* ⓘ

East US

Sample Input

# Outputs provide the ARM inputs



createUiDefinition.json

```
"outputs": {
  "storageAccountNamePrefix":
    "[steps('storage').storageAccounts.prefix]",
  "storageAccountType":
    "[steps('storage').storageAccounts.type]",
  "location": "[location()]",
  "resourceTags": "[steps('tags').tagsByResource]"
}
```

mainTemplate.json

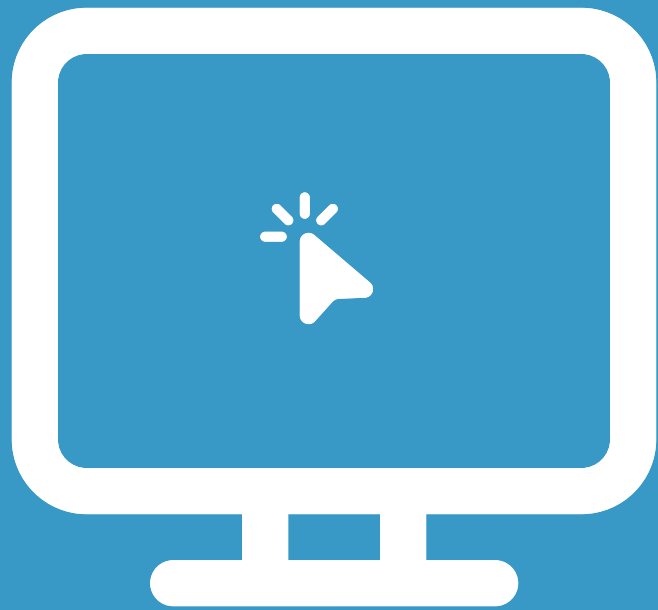
```
"parameters": {
  "storageAccountNamePrefix": { "type": "string" },
  "storageAccountType": { "type": "string" },
  ...
}
```

# Demo



createUiDefinition.json  
walkthrough

# Demo



The development sandbox

URL to sandbox

**<https://aka.ms/masandbox>**

# Demo



Dynamic elements

# Overview

File overview

JSON walkthrough

Development sandbox

Dynamic elements

