

Oracle EMEA Landing Zones – Simplifying the Onboarding and Running of OCI

AUGUST 2023 | v0.9



THERE ARE TWO LANDING ZONE APPROACHES:



Standard Landing Zones

An **existing** and prescribed solution
where **best practices** are applied.

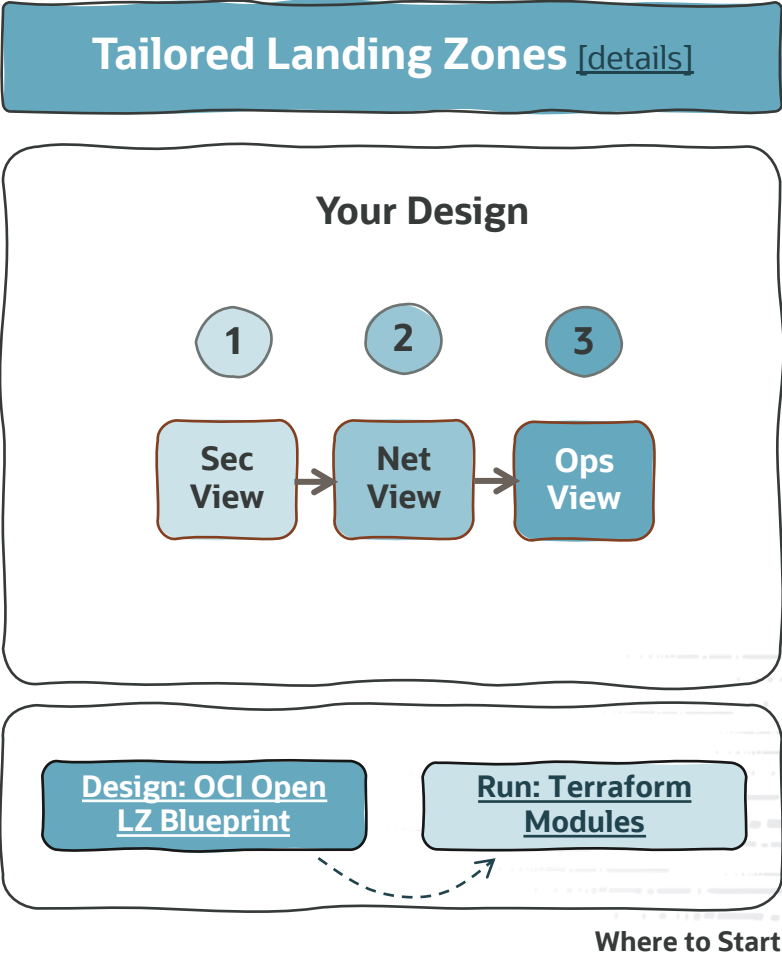
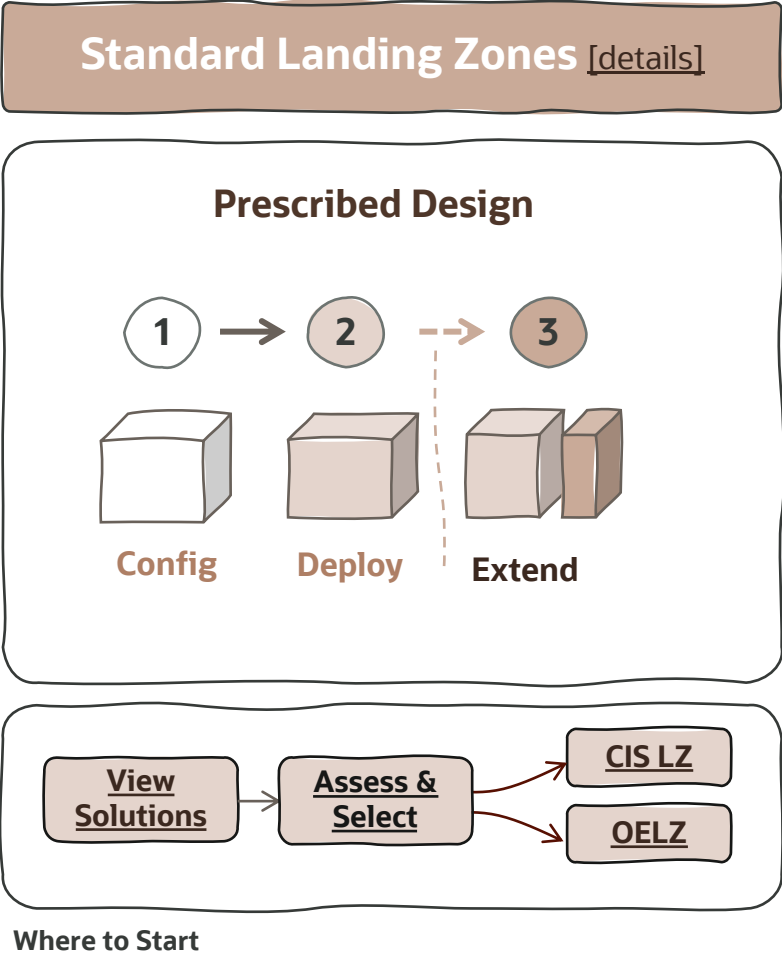


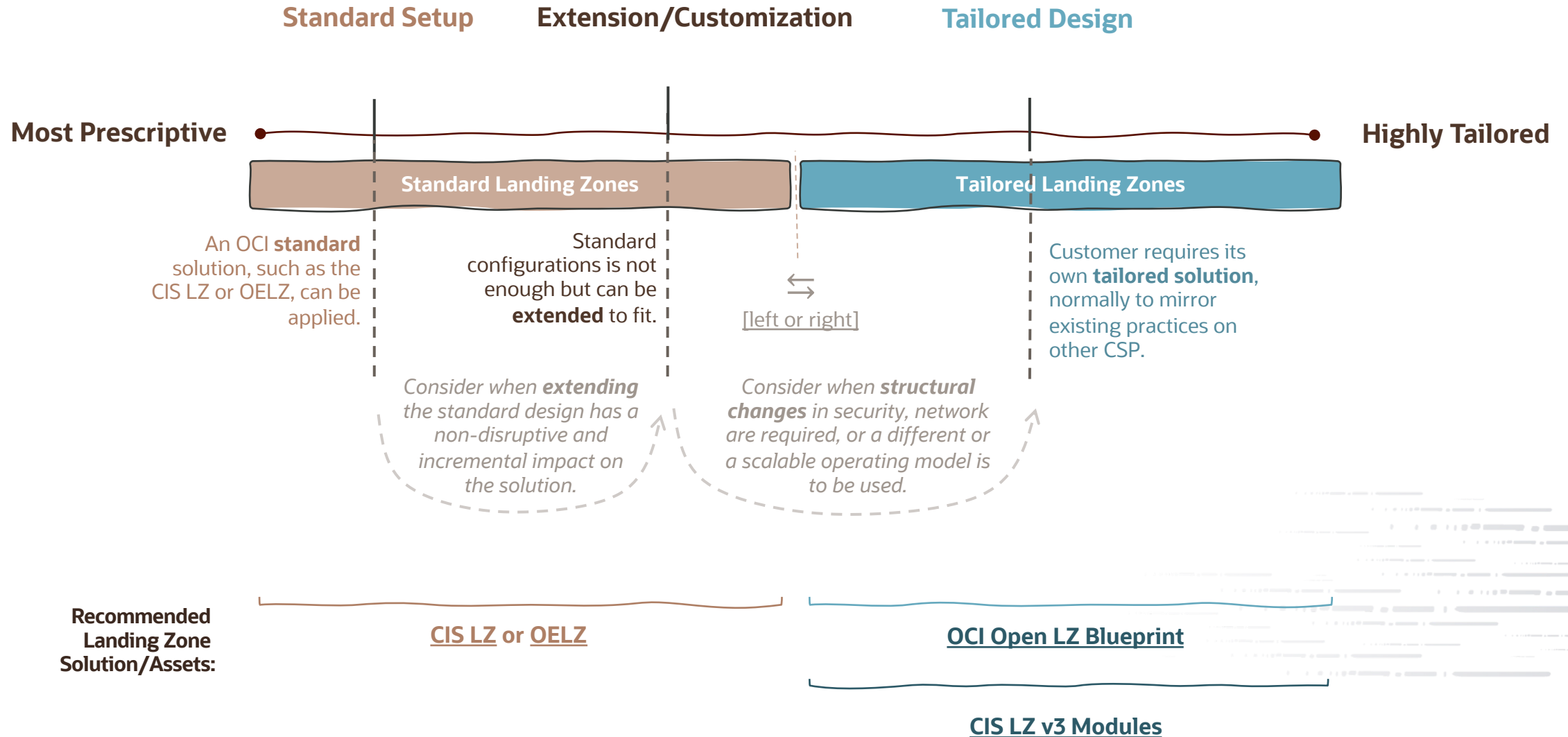
Tailored Landing Zones

A **tailored** solution to fit **specific**
customer requirements.

[technology-engineering git](https://github.com/technology-engineering/git)

Summary of Landing Zones Approaches and Assets



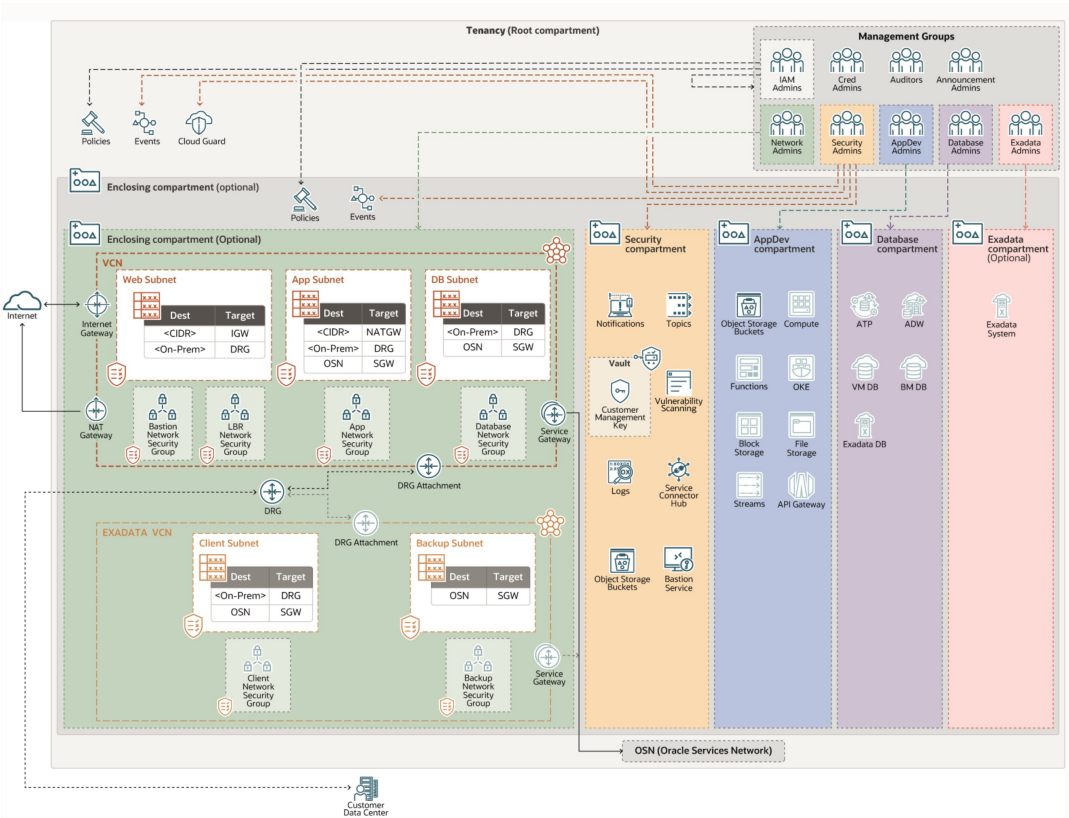


THANKS

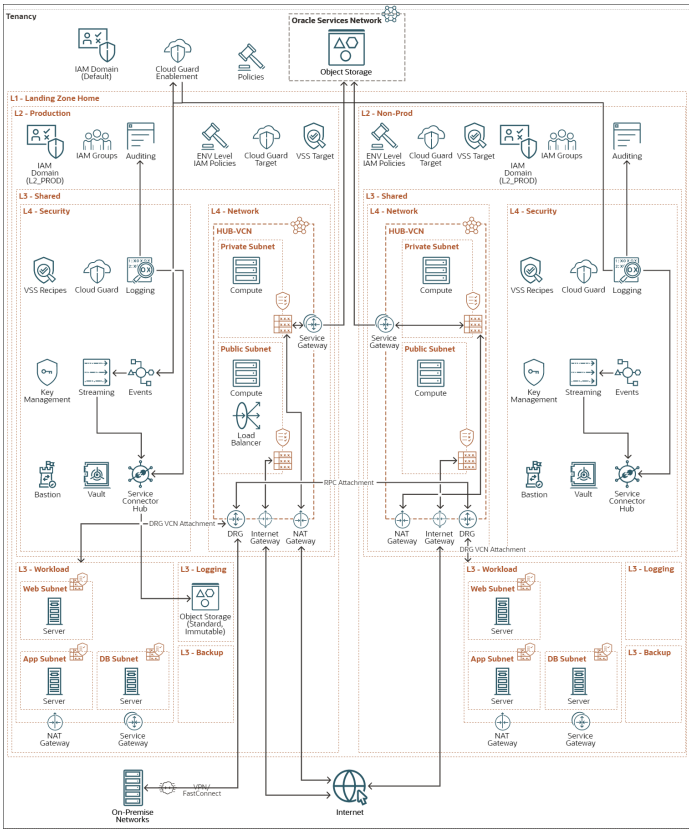
Existing OCI Standard/Prescribed Landing Zones

Standard Landing Zones

CIS Landing Zone v2

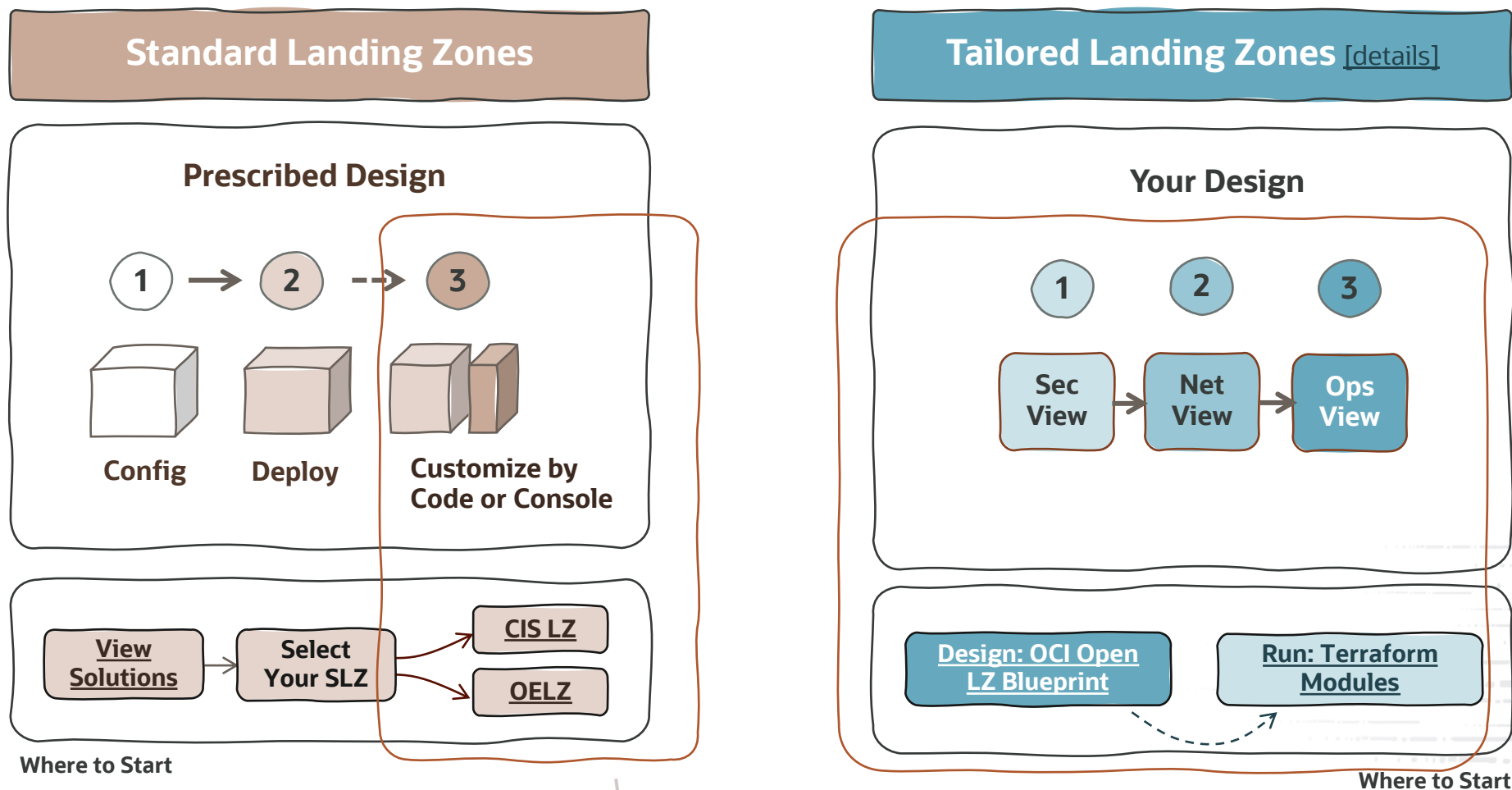


OELZ v2



CUSTOMIZATION vs TAILORING

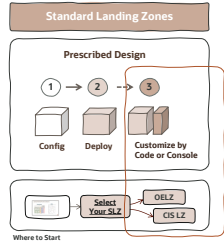
There are two options to create specific designs, we recommend **Tailoring**.



Consider **tailoring** when structural changes in security and network are required, or customer requires a new/different design.



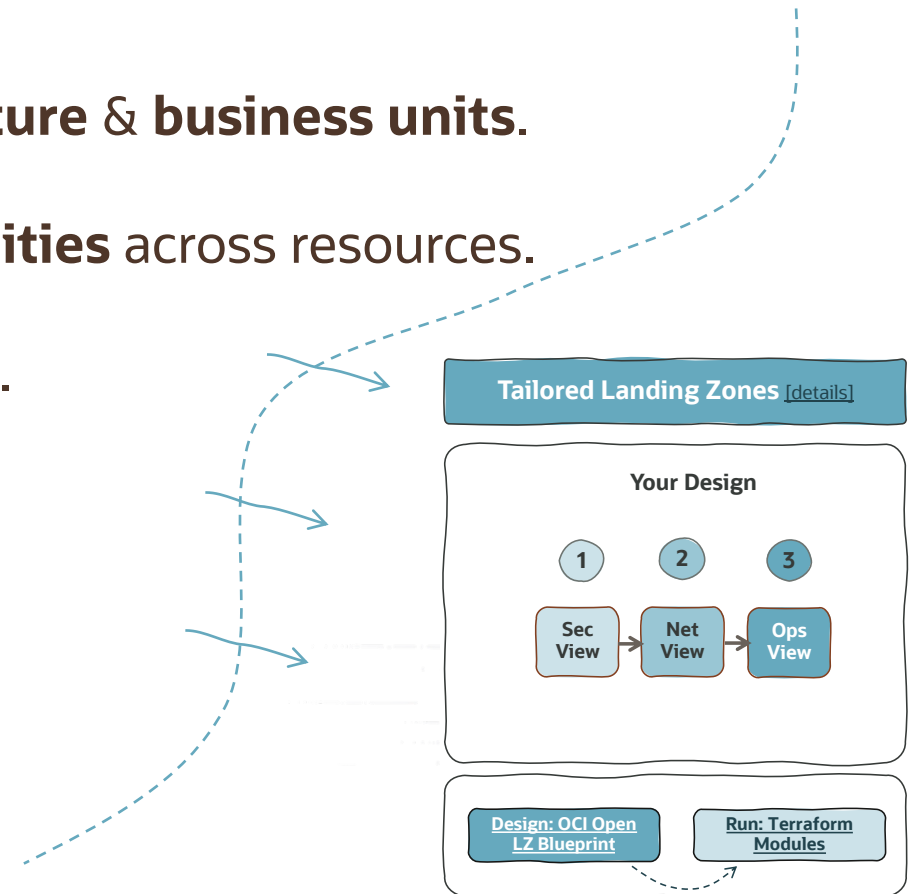
Challenges with complex Extensions/Customizations



1. **Hard-coding.** Changing or adapting code to create a new landing zone different than the original is complex and time-consuming. This also means that any change to the landing zone will be executed by code and not configurations.
2. **Waste & Late Time-to-Value.** The time spent on adapting code, or re-coding over and over for the OCI landing/core resources is time wasted and not used on the business value/workloads.
3. **Limited Scaling.** Doing OCI changes manually can work for some tactical solutions, but it will always limit the scaling and add complexity and cost to the day-two operations. Note that, for example, CIS LZ creates 100+ OCI resources.
4. **Scarce Skills.** IaC Terraform coding skills are not as common as we should expect, which makes these efforts a higher risk and challenge to solve.

When to apply a **Tailored Setup**? Or when the **Standard** might not be enough

1. 'Mirror' **existing landing zones** on other CSP.
2. Onboarding and reflecting your **organization structure & business units**.
3. Fine grained **segregation of duties** and **responsibilities** across resources.
4. Highly tuned **network design** and **security posture**.
5. Heterogeneous/Large **workloads landscape**.
6. Adopting a highly scalable **operating model**.



Extension/Customization and Tailoring differences, and Day-2 Impact

	Customization – By Console	Customization – By Code	Tailored Design
Approach	<ul style="list-style-type: none">Uses ORM and Deploy SolutionCustomize Manually on OCI Console	<ul style="list-style-type: none">Uses existing Terraform modules (OELZ v2 or CIS LZ v2)Extend existing ModulesCreate new modules	<ul style="list-style-type: none">Use <u>CIS Landing Zone v3 Modules</u> Create HCL/JSONs for Security and Network Resources
Impact: Day 2 and Running Efforts	<ul style="list-style-type: none">Implementation time*: hours/daysWorks for one-off deploymentsORM can be used to update configsDay 2 console driven-approach	<ul style="list-style-type: none">Implementation time*: weeks/monthsHigher efforts, focus on codingDay 2 IaC-driven approach possible	<ul style="list-style-type: none">Configuration time*: hours/daysLower efforts, focus on design not codingIdeal for ready-made Patterns / TemplatesWorks for one-off deploymentsIdeal for continuous operations (gitops, change)Day 2 IaC-driven approach readyCloud Operations teams use HCL/JSONs



Running OCI with a **Tailored approach** is simple – Compartments Example

```
{
  "compartments_configuration": {
    "enable_delete": "true",
    "default_parent_ocid": "ocid1.tenancy.oc1...",
    "compartments": {
      "CMP-SECURITY-KEY": {
        "name": "cmp-security",
        "description": "Shared Security Compartment",
        "parent_id": "ocid1.tenancy.oc1...",
      },
      "CMP-NETWORK-KEY": {
        "name": "cmp-network",
        "description": "Shared Network Compartment",
        "parent_id": "ocid1.tenancy.oc1...",
      }
    }
  },
},
```



Tailor with the CIS Landing Zone v3, a new generation of Terraform Modules

[0] Overview: <https://www.ateam-oracle.com/post/cis-landing-zone-enhanced-modules>

[1] IAM: <https://github.com/oracle-quickstart/terraform-oci-cis-landing-zone-iam>

[2] Network: <https://github.com/oracle-quickstart/terraform-oci-cis-landing-zone-networking>

[3] Security: <https://github.com/oracle-quickstart/terraform-oci-cis-landing-zone-security>

[4] Governance: <https://github.com/oracle-quickstart/terraform-oci-cis-landing-zone-governance>

[5] Observability: <https://github.com/oracle-quickstart/terraform-oci-cis-landing-zone-observability>

