

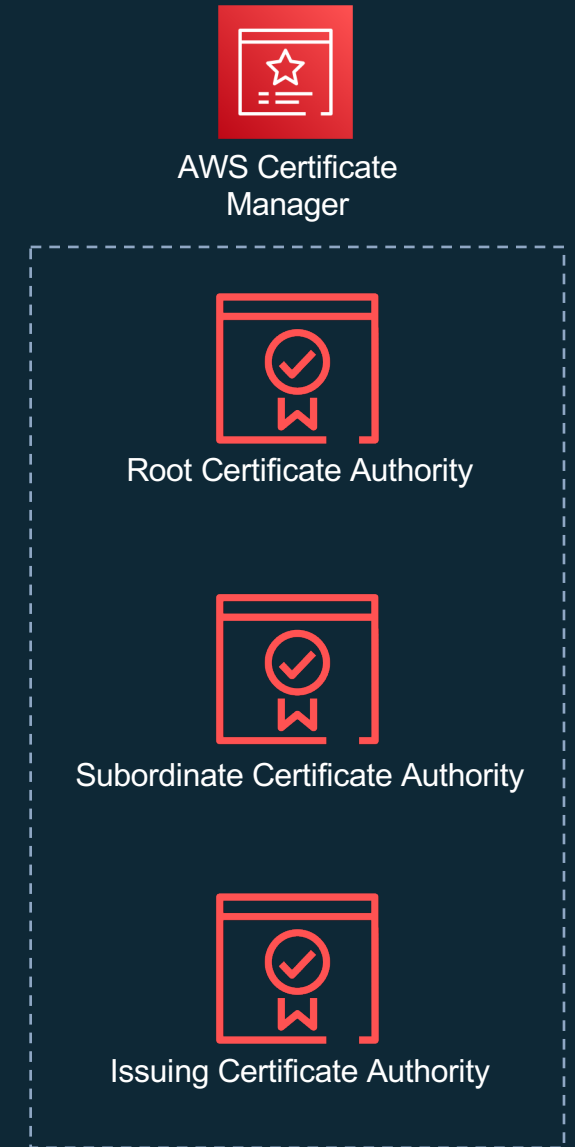
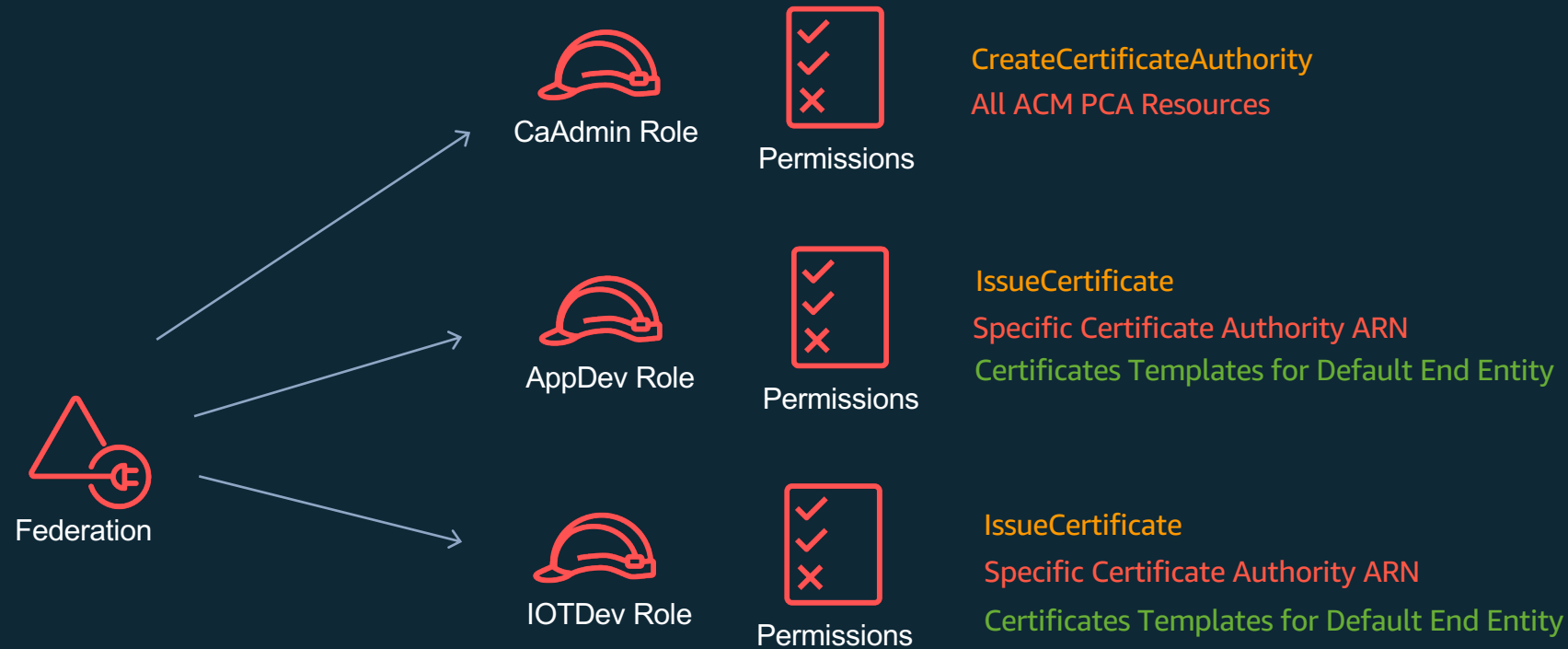


Least Privilege Concepts

Achieving least privilege

- Personas in Workshop
 1. CA Admin
 2. App Dev
 3. IOT Dev

Proposed IAM Design



CA Admin Role

```
{
  "version": "2012-10-17",
  "statement": [
    {
      "effect": "Allow",
      "action": [
        "acm-pca:TagCertificateAuthority",
        "acm-pca:CreateCertificateAuthority",
        "acm-pca:ImportCertificateAuthorityCertificate",
        "acm-pca:CreatePermission"
      ],
      "resource": "arn:aws:acm-pca:*:*:certificate-authority/*",
      "condition": {
        "stringLike": {
          "acm-pca:TemplateArn": [
            "arn:aws:acm-pca:::template/*CACertificate*/V*"
          ]
        }
      },
    },
    {
      "effect": "Allow",
      "action": [
        "acm-pca:ImportCertificateAuthorityCertificate"
      ],
      "resource": "arn:aws:acm-pca:*:*:certificate-authority/*"
    }
  ]
}
```

.. (more)

App Dev Role

```
{
  "version": "2012-10-17",
  "statement": [
    {
      "effect": "Allow",
      "action": [
        "acm-pca:IssueCertificate"
      ],
      "resource": "arn:aws:acm-pca:*:*:certificate-authority/12345678-1234-1234-123456789",
      "condition": {
        "stringLike": {
          "acm-pca:TemplateArn": "arn:aws:acm-pca:::template/EndEntityCertificate/v*"
        }
      }
    }
  ]
  .. (more)
}
```

IoT Dev Role

```
{
  "version": "2012-10-17",
  "statement": [
    {
      "effect": "Allow",
      "action": [
        "acm-pca:IssueCertificate"
      ],
      "resource": "arn:aws:acm-pca:*:*:certificate-authority/12345678-1234-1234-123456789",
      "condition": {
        "stringLike": {
          "acm-pca:TemplateArn": "arn:aws:acm-pca:::template/EndEntityCertificate/v*"
        }
      }
    }
  ]
  .. (more)
}
```