## Who we are

### sIT Solutions
- IT solutions provider for Erste Bank and Sparkassen in Austria
- Turnover 300 m, Employees 900

### Martin
- ~20 years in IT Development in banking sector: Java/JEE → Software Architect → OpenShift
- Specialised in software development and operation

### Reinhard
- ~20 years in IT Infrastructure in banking sector: OpenVMS → Linux/Solaris → Cloud Architect
- Specialised in IT automation for 10 years
The Vision

1. Self Service for Developers
2. DevOps
3. Microservices
4. Time to market
# Security / Compliance Requirements

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Deployments must be: comprehensible, documented, reproducible</td>
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<td>2</td>
<td>Separation of environments: development, acceptance, production</td>
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<td>3</td>
<td>Multi-Tenancy</td>
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<td>4</td>
<td>No docker on workstations</td>
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Reality

1. Developers are not allowed to modify objects in OpenShift directly
2. Staging of deployments over clusters
3. Integration into existing processes and tools: change, authorization & permission, …
4. Self written frontend named “ChopSuey Toolbox”
High Level Architecture

- Authorization
- Audit/Change

- MyProject
  - DEV: OSCP 3.5
  - FAT: OSCP 3.5
  - PROD: OSCP 3.11

- ChopSuey Toolbox

- DB
- GIT
New Project (Demo)
Create Image

1. Create “application” repository in git
2. Add application artefacts
3. Configure builder image
4. Build the Image via Toolbox
Build Image (Demo)
Create OpenShift configuration

1. Create “origin” repository in git
2. Add configuration artefacts
3. Configure environment differences
4. Deploy the application via Toolbox
Template Processing

```
"replicas": ${replications},
"selector": {
  "name": "${cs_application}-${cs_lane}"
},
```

```
{
  "replications": 1
}
```

```
"replicas": 1,
"selector": {
  "name": "webdemo-latest"
}
```
What are Lanes?

1. A naming pattern
2. Deploy an application multiple times in the same project in different versions
Deploy Application (Demo)
Lessons learned?

1. The Team rules
2. Stay up to date with OpenShift
Questions?