



# Viz Roll Experiences

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Rocks-A-Palooza I

Track 2

Case Studies of Existing  
Rolls



# Viz Roll Function

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# Issue

- ◆ Need X11 configured on all “tile” nodes
  - ⇒ Don't want to configure X11 for all nodes
    - That is, a compute node should not be running X11 by default



# What We Do

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- ◆ Create a new appliance in the 'post' section

```
from src/roll/viz/nodes/viz-server.xml
```

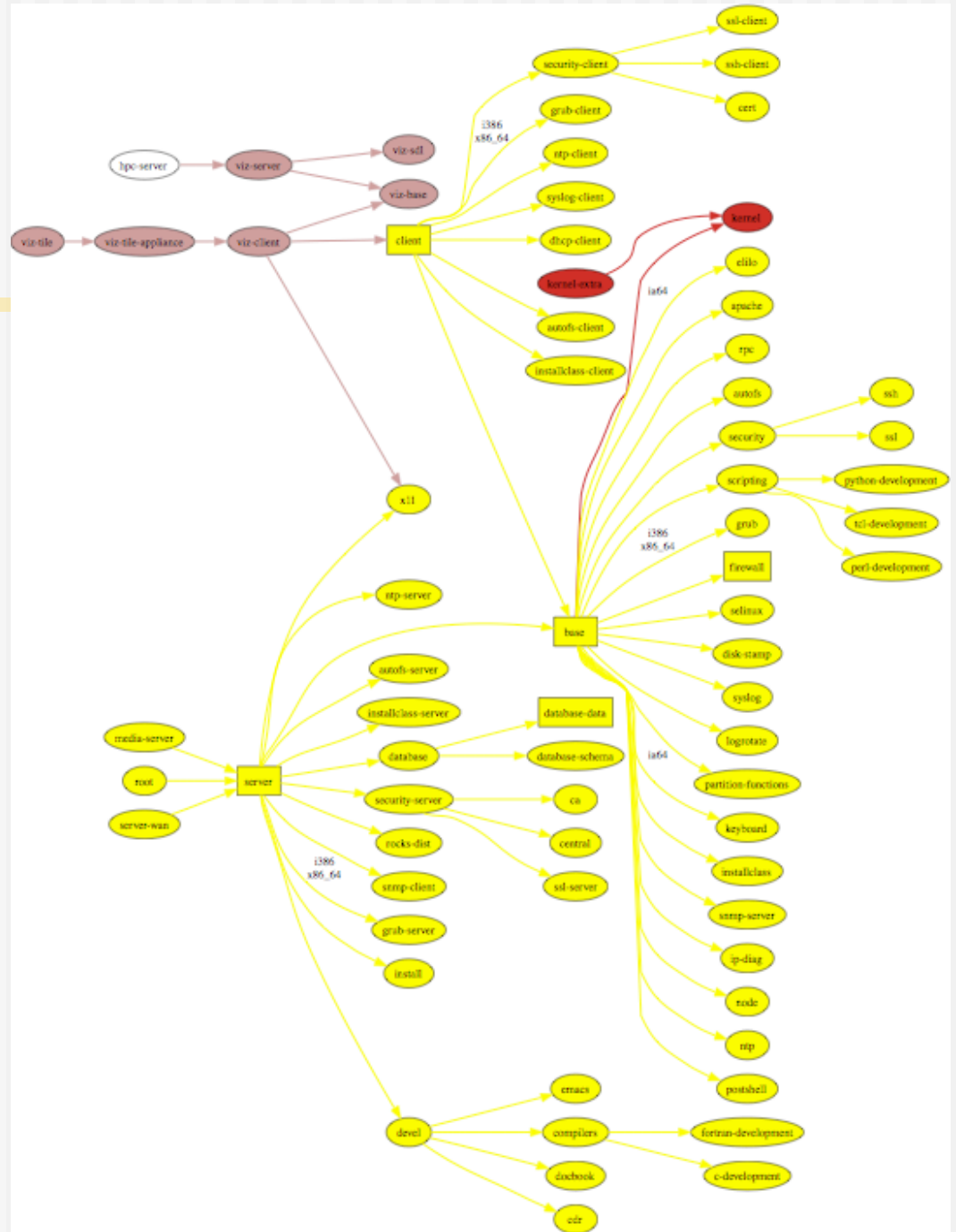
```
<post>
```

```
/opt/rocks/sbin/add-new-appliance --appliance-name 'Tile' \  
    --xml-config-file-name viz-tile
```

```
</post>
```

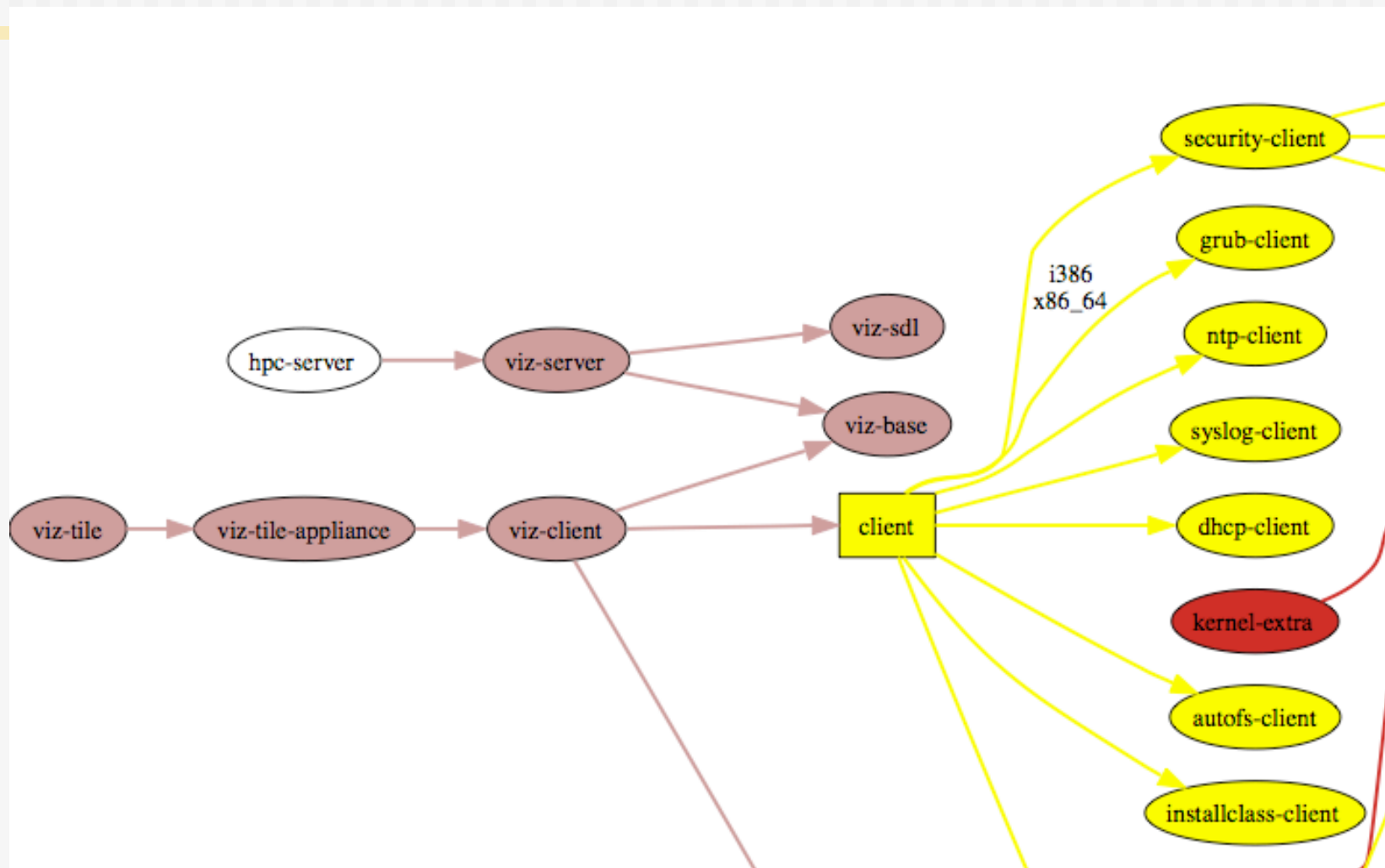
# What We Do

- ◆ Add a new root node 'viz-tile'
- ➔ This is an analog to 'compute'





# What We Do



# What We Do

## ◆ The Viz Roll's graph file

```
from src/roll/viz/graphs/default/viz.xml
```

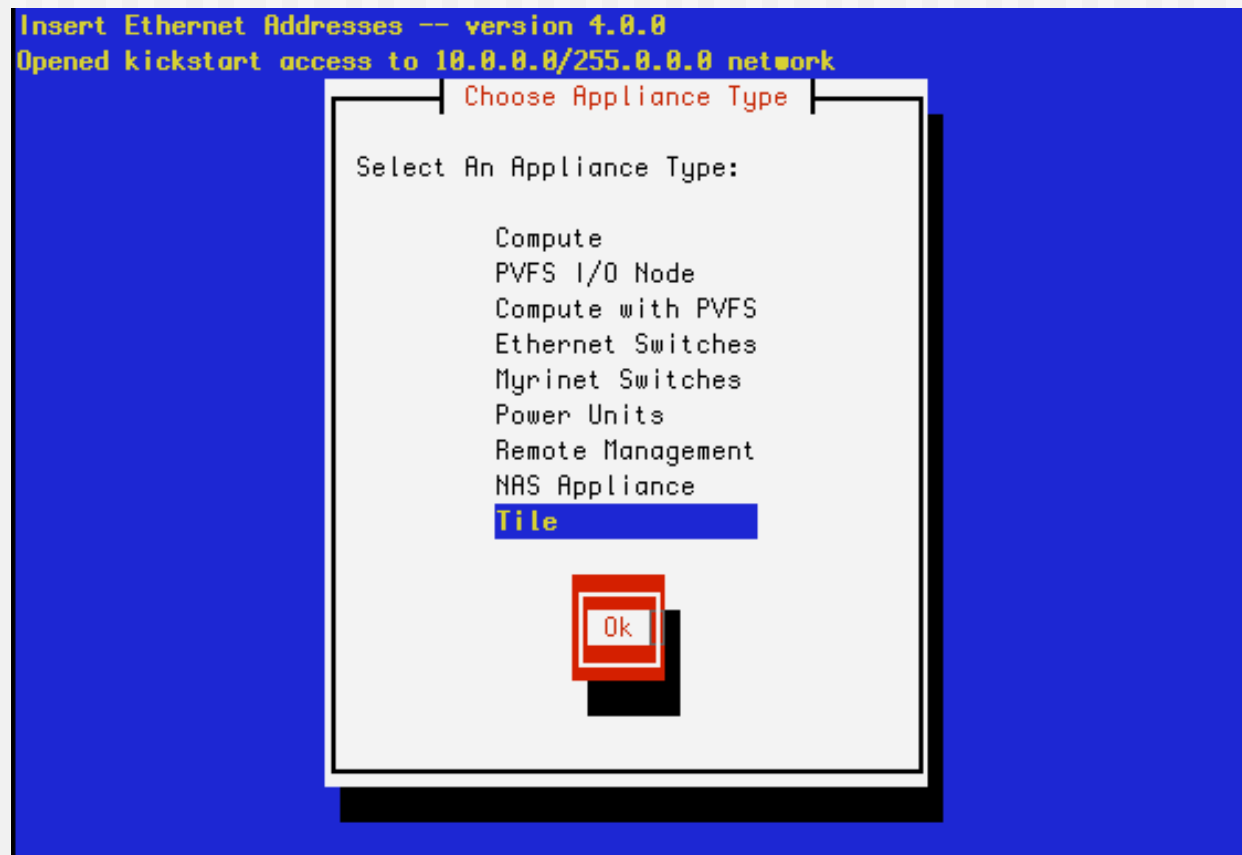
```
<graph>
  <edge from="hpc-server" to="viz-server"/>
  <edge from="viz-server">
    <to>viz-base</to>
    <to>viz-sdl</to>
  </edge>

  <edge from="viz-tile" to="viz-tile-appliance"/>
  <edge from="viz-tile-appliance" to="viz-client"/>

  <edge from="viz-client">
    <to>viz-base</to>
    <to>client</to>
    <to>x11</to>
  </edge>
</graph>
```

# What It Does

- ◆ Insert-ethers now has a 'Tile' appliance





# What It Does

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- ◆ By selecting 'Tile', the next node that boots into installation mode, will get a kickstart file that is rooted at the 'viz-tile' node
  - ➔ And X11 will be configured
- ◆ Benefit: can still build standard non-X11-based compute nodes from the same frontend