

Light Weight Orchestration Tools Using Nomad

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About Me



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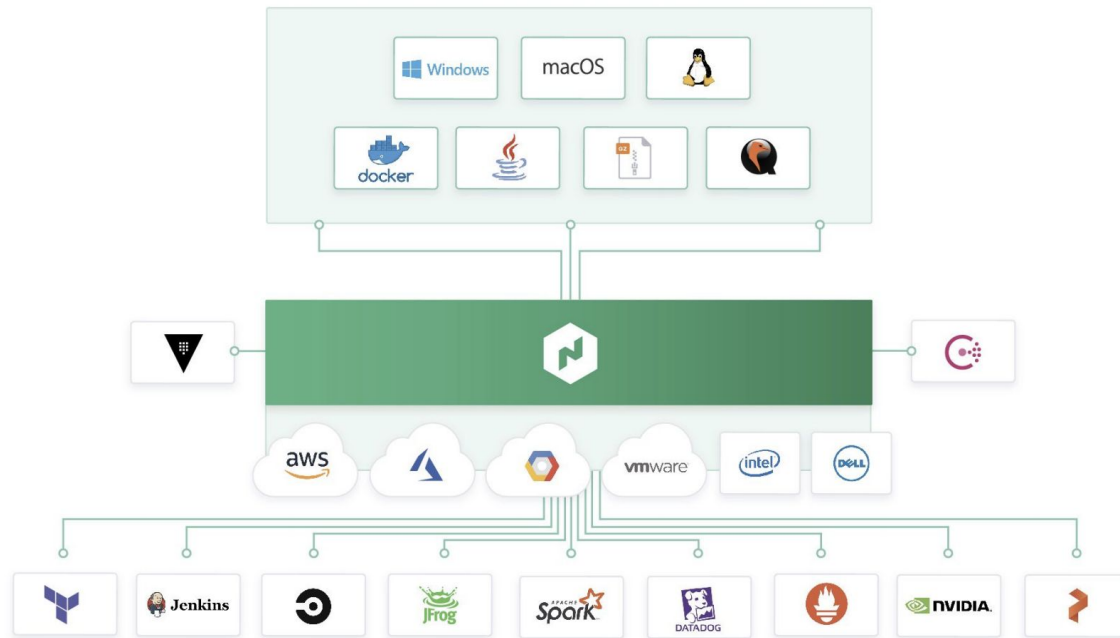
What is nomad ?



HashiCorp
Nomad

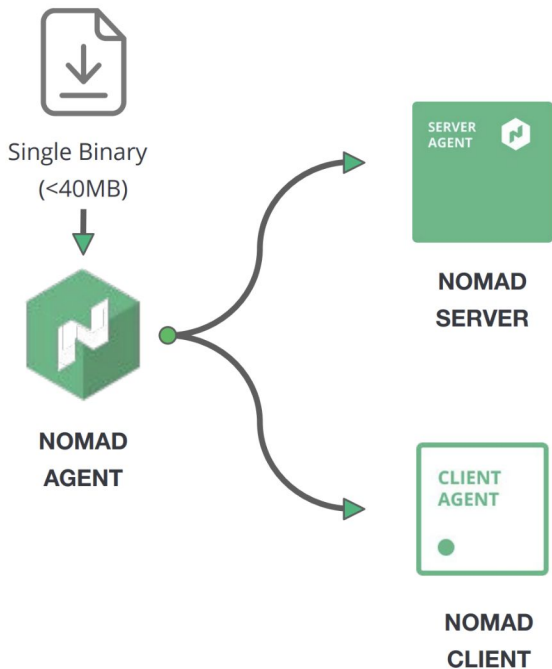
Nomad is not only container orchestration

- It supports virtualized, containerized, and standalone applications, such as Docker, Java, IIS on Windows, QEMU, application binary/executable, etc.
- A simple, a lightweight layer that can be integrate with any existing infrastructure with any **Scale**.



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Nomad Single Process



Nomad Server forms the control plane for scheduling.

```
$ .nomad -config=server.hcl
```

Nomad Agent runs as a **Server** and a **Client** on your local laptop.

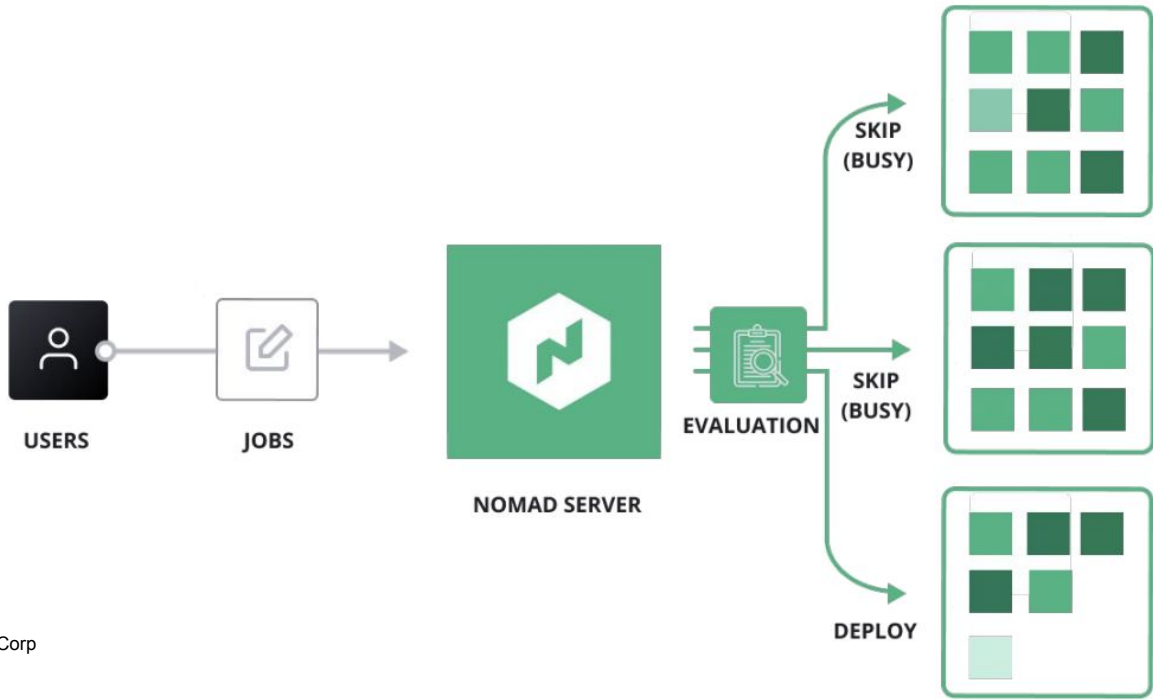
```
$ nomad agent -dev
```

Nomad Client runs on the node which registers with the servers, watching for any work to be assigned and execute tasks

```
$ .nomad -config=client.hcl
```

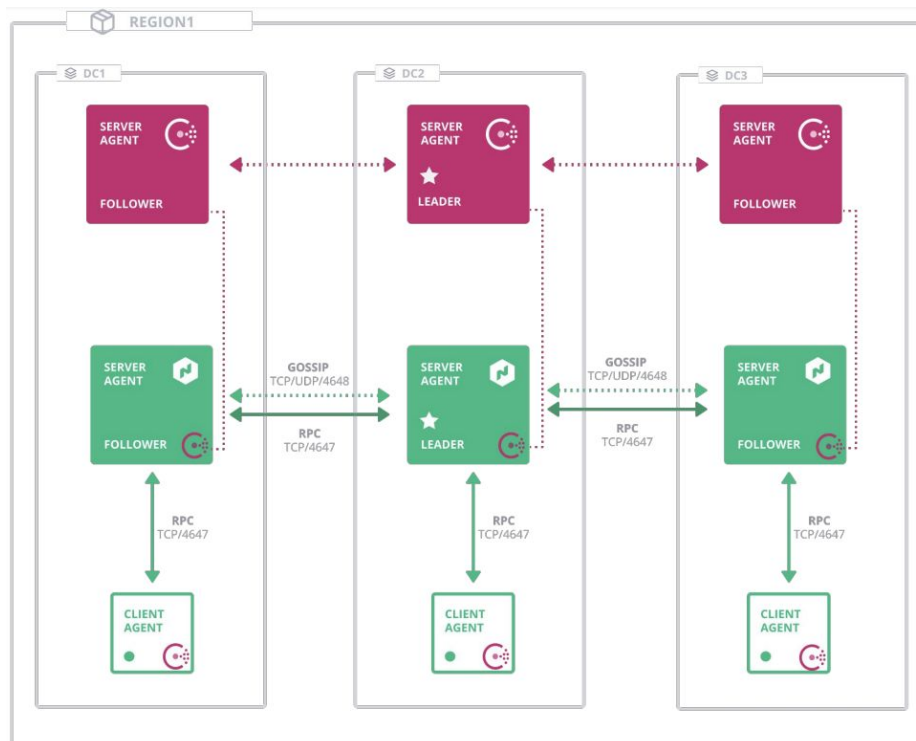
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Nomad Deployment Workflow



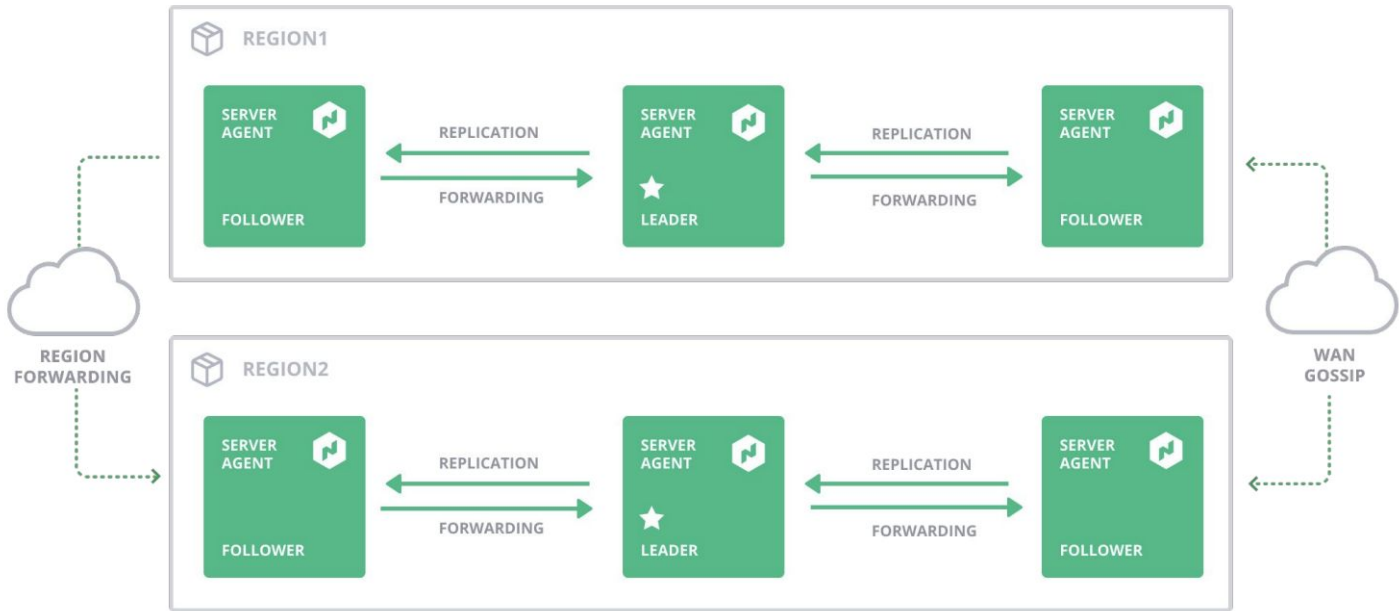
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Nomad Architecture - Single Region



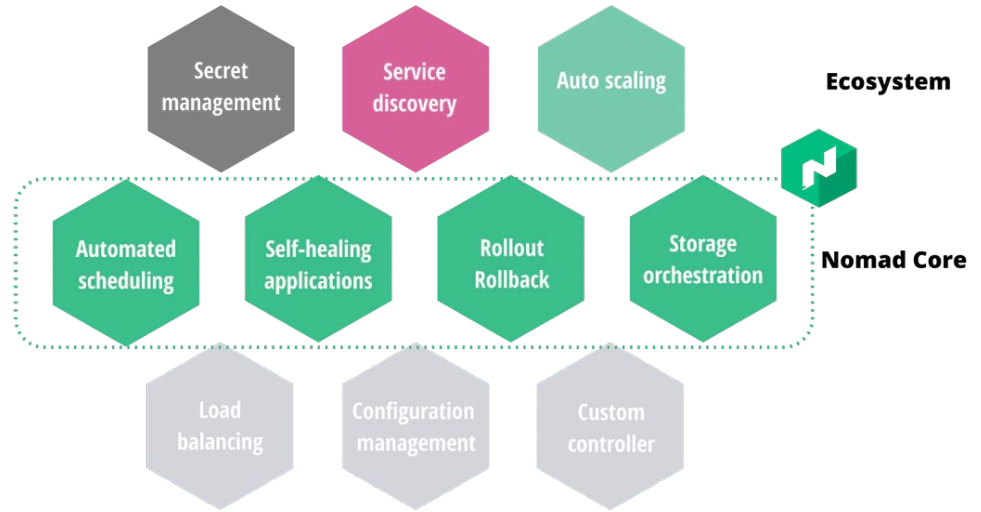
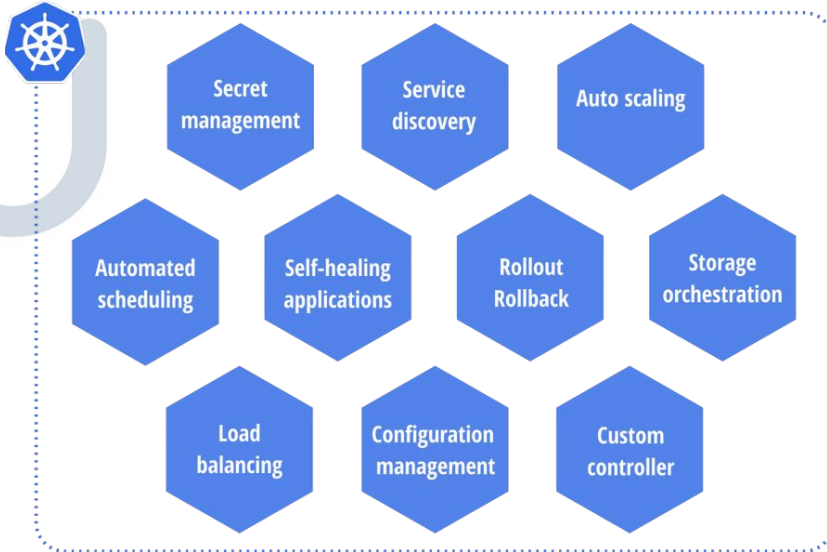
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Nomad Architecture - Multi Region



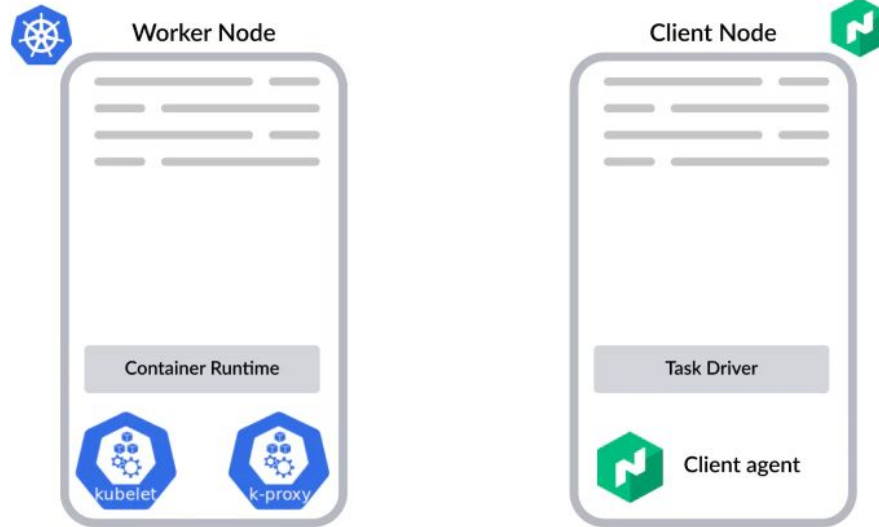
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How Kubernetes and Nomad Differ



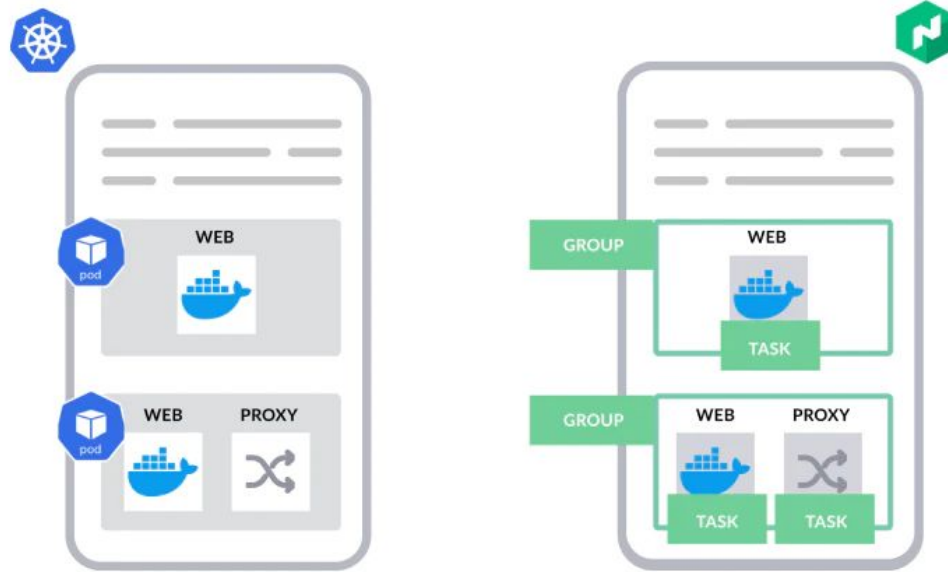
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Nomad - Client Node



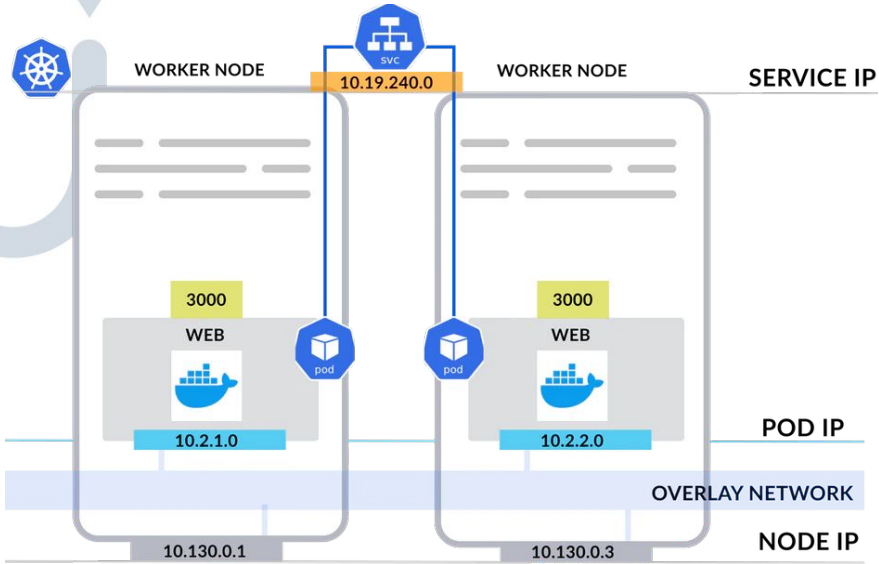
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Nomad - Job, Task, Task Group, and Allocation

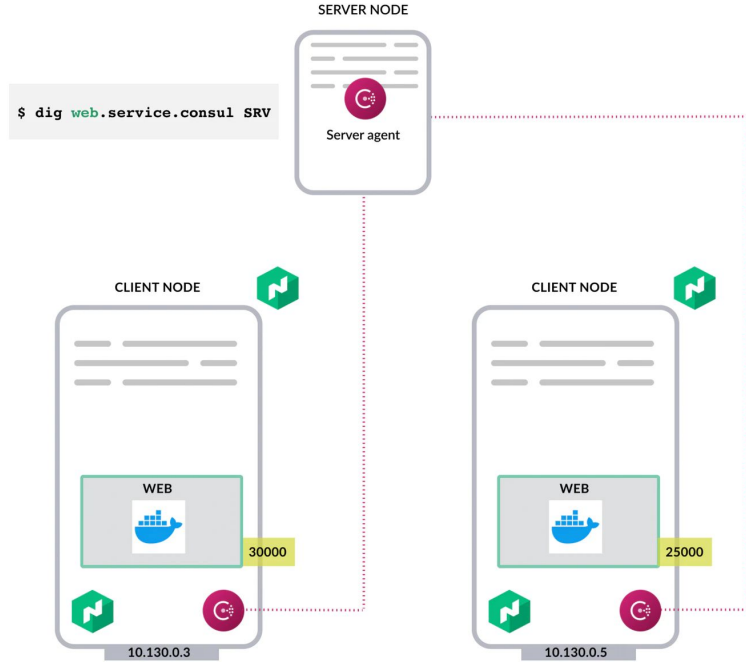


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Nomad - Networking



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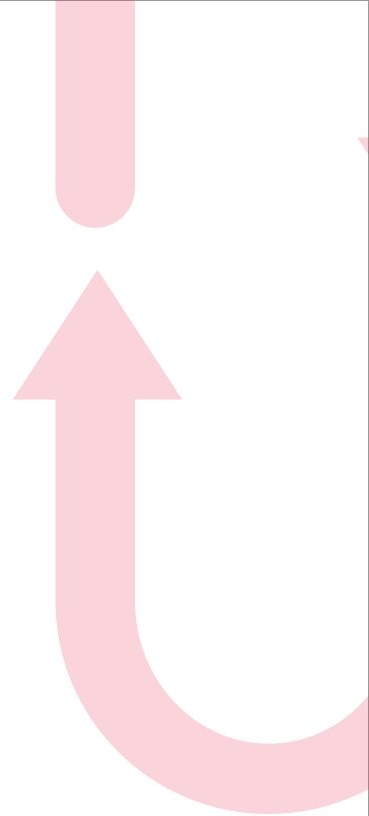
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Thanks!

Do you have any questions?

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