



# ICode: Terraform Project

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# Proxmox providers



**bpg/prowxmox:**

Frequent Updates  
Less downloads



**Telmate/prowxmox:**

Not as maintained  
More downloads

# On Prem vs Cloud

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## On prem:

Templates are necessary  
Create VMs and LXC's BUT needs bootable  
disk/image  
Cloning with custom adjustment



## Cloud:

No premade template necessary  
Image marketplaces can be used and  
immediately be booted into

# Me and the boys in Minecraft

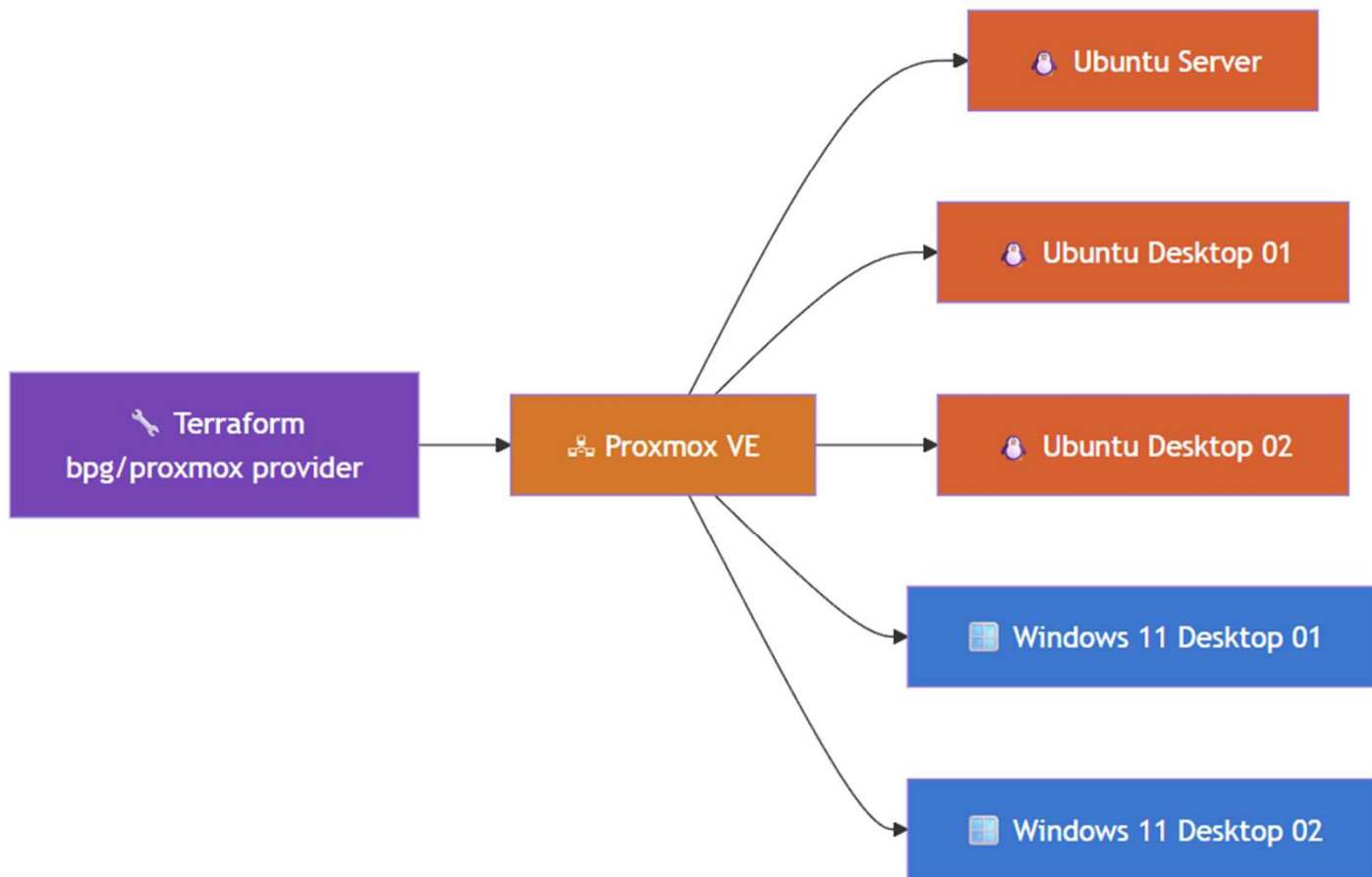


Project: Minecraft LAN with Da Bois



HashiCorp

# Terraform



# Prerequisites

Cloud-init

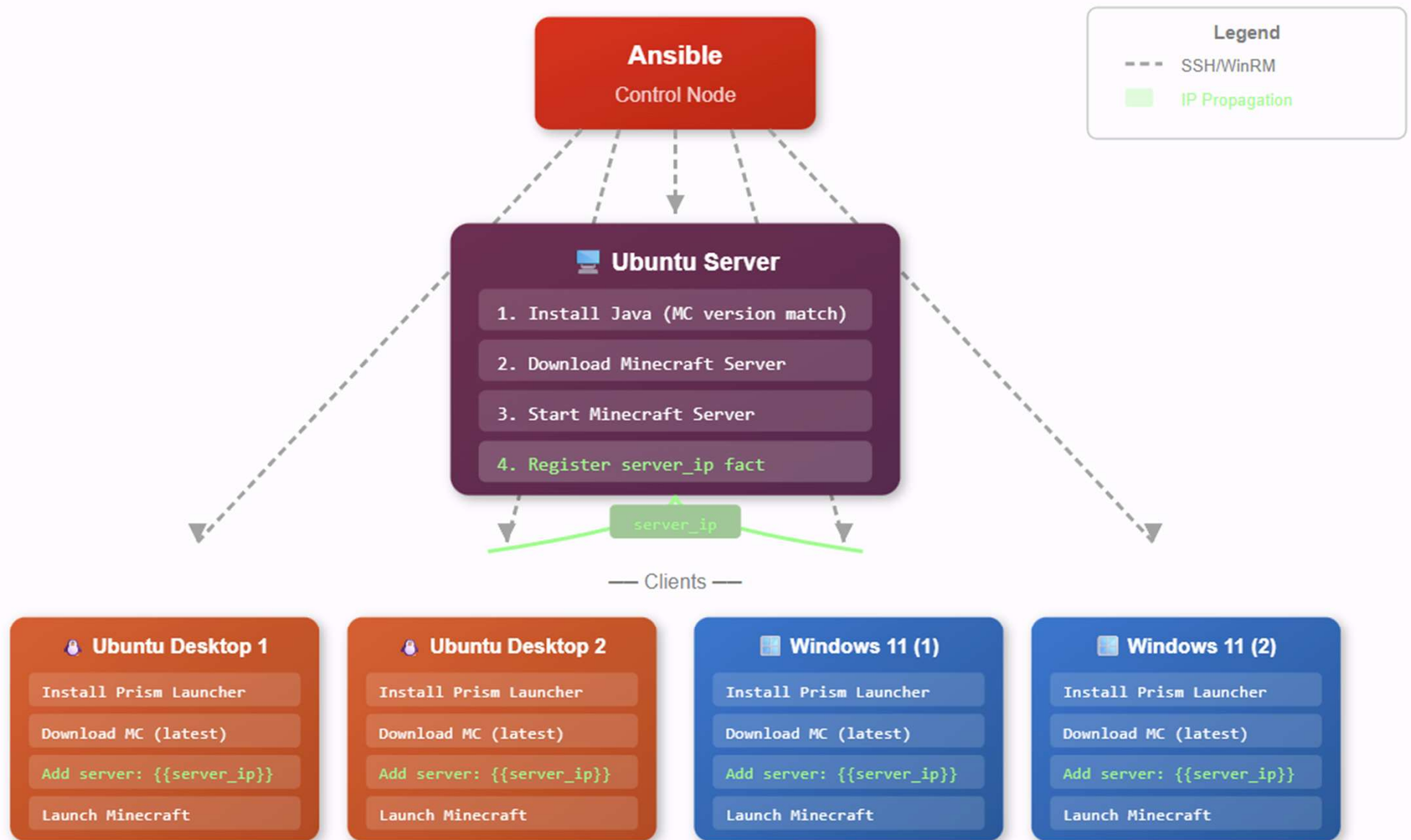
QEMU  
Agent



ANSIBLE



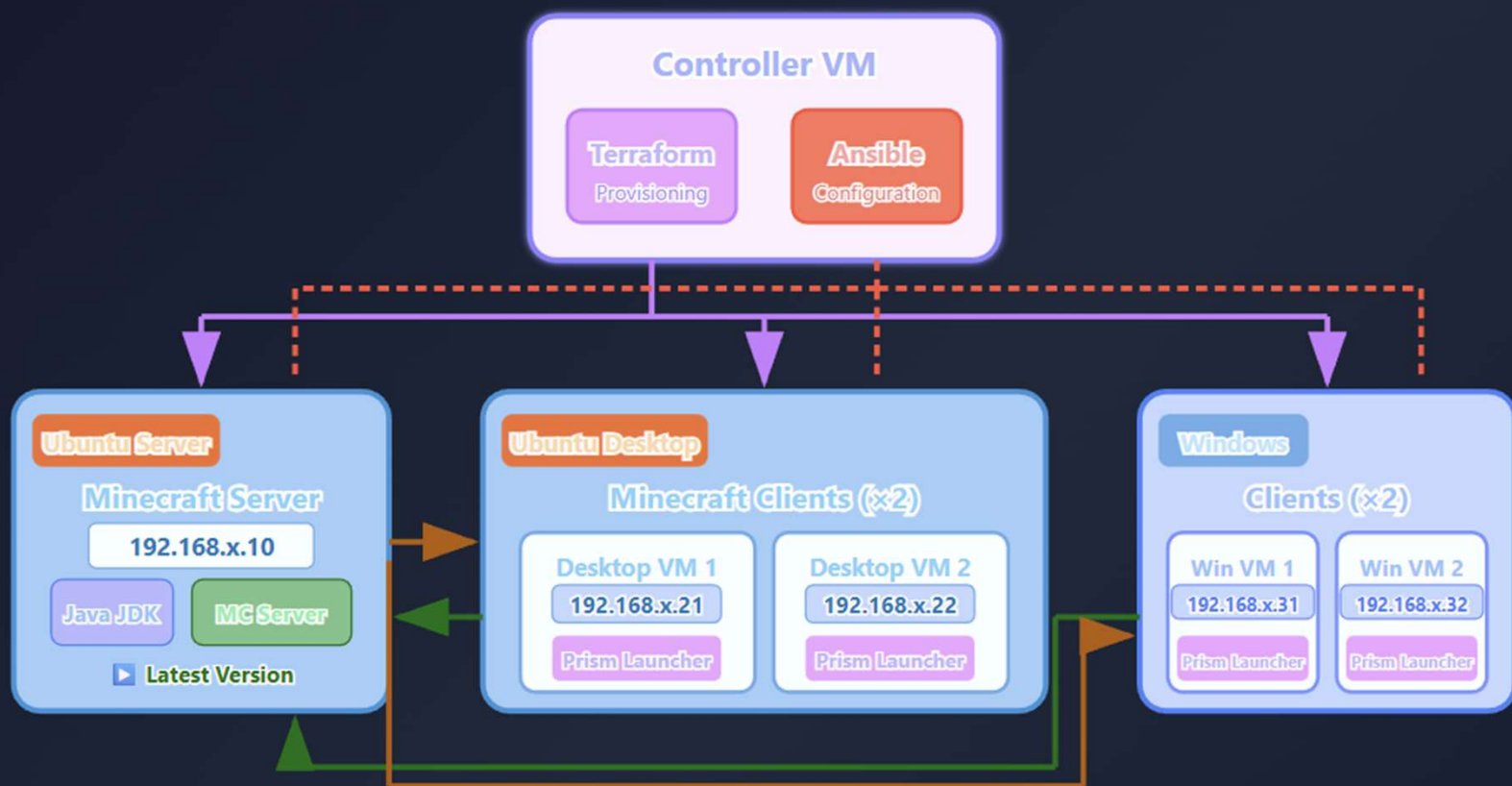
# Ansible Minecraft Infrastructure Deployment



# What Gets Deployed

Component	Server	Linux Client	Windows Client
Java 21	✓	-	-
Paper Server	✓	-	-
Geyser/Floodgate	✓	-	-
Prism Launcher	-	✓	✓
Pre-configured Instance	-	✓	✓





### Workflow Legend

1

#### Terraform Provisioning

Creates all 5 VMs and outputs their IP addresses

2

#### Ansible Configuration (Server)

Installs Java JDK → Downloads MC server → Starts

3

#### Ansible Configuration (Clients)

Installs Prism Launcher → Creates instance → Injects IP

4

#### Ready to Play

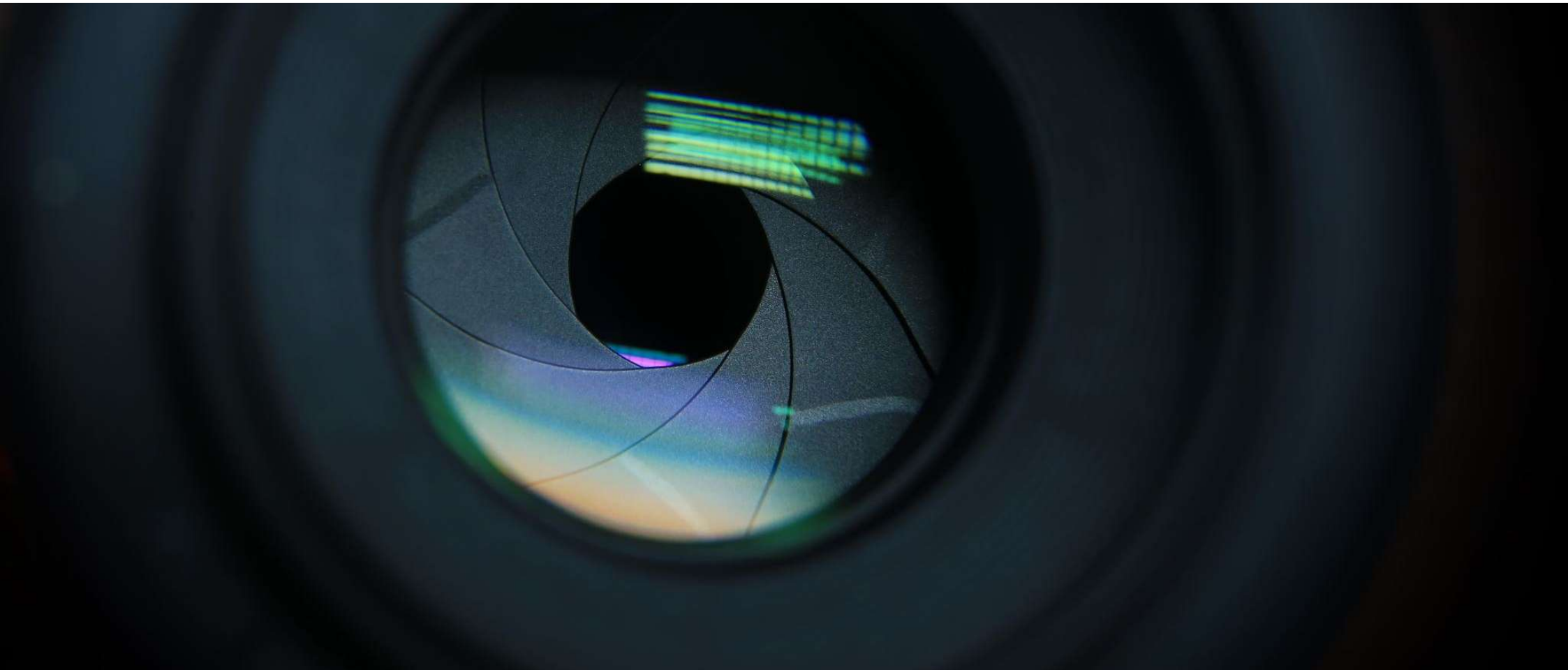
All 4 clients connect to Minecraft server automatically

— Terraform creates

- - - - - Ansible configures

— IP passed

— Game connection



DEMO



# Issues


Terraform

## Windows Virtualization

VM lock timeout

Slow drives -> Slow copying

Forced to use “-parallelism=1”





# Issues

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Ansible    Windows : )

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Windows : )

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Windows : )

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Windows : )

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